UNITED STATES PATENT APPLICATION

For

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

By

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Lenovo
Ex. 1004 - Page 1

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application No. 10/969,561, filed October 20, 2004, which in turn is a continuation-in-part of U.S. Patent Application No. 10/461,827, filed Jun. 13, 2003, which in turn claims the benefit of U.S. Provisional Application No. 60/388,287, filed June 13, 2002, and U.S. Provisional Application No. 60/438,282, filed January 6, 2003. The present application claims the benefit of U.S. Provisional Application No. 60/512,777, filed Oct. 21, 2003. The present invention is related to the invention described in co-owned U.S. Patent No. 7,171,467, filed on Jun. 13, 2003 and issued on January 30, 2007, which is incorporated herein by reference. The present invention is also related to the invention described in co-owned and co-pending U.S. Patent Application No. 11/611,210, filed on December 15, 2006, which is incorporated herein by reference.

FIELD OF THE INVENTION

[0002] The present invention relates in general to methods and apparatus used in managing devices or systems in a communication network and more particularly to methods and apparatus for remote management of these devices or systems in a secure manner.

BACKGROUND OF THE INVENTION

[0003] In distributed computer networks the vast majority of the networking elements are not in the same geographic location or easily accessible by the skilled technicians or network administrators typically responsible for normal maintenance of the elements. Not only do these technicians and administrators require regular access to the network elements for maintenance, but they also need timely access to the network elements when problems arise in order to perform trouble shooting and resolving problems. The more quickly a network administrator can access the elements in the network for troubleshooting the shorter the mean-time-to-repair (MTTR) an outage in the network.

[0004] In general, it is not practical to require physical access to the systems for general maintenance or troubleshooting and repair. The costs would be prohibitive, both in time and

Lenovo
Ex. 1004 - Page 2

personal, to require a skilled technician to be dispatched for every required activity on a system. This has driven a strong requirement to provide for remote management of network elements and servers. A number of means have been developed to provide for remote management of these systems. Remote management of the elements can be provided in-band (the remote administrator communicates with the system using the same network as the user data for the managed system) or out-of-band (the remote administrator communicates with the system using a means other than the network utilized by the user data of the managed system). Typically, when out-of-band remote management is utilized, the administrator is connecting to a console or management port on the system.

[0005] However, the security of the network elements and servers is a concern when remote management is allowed. For a system to be secure, it must first of all be physically secure from attack. Without physical security, it is almost certain an attacker can compromise a system. If management of the system requires physical access to the system then the security of the management is as strong as the physical security. But, as stated above, in most networks this is not practical. It is important, though, to realize that opening up a device to remote management allows a larger window for attackers to utilize in an attack. The use and security of remote management must be carefully considered.

[0006] The struggle to find a workable compromise between the utility of remote management of devices and the need to maintain the security of the devices can clearly be seen in "The Router Security Configuration Guide" published by the National Security Agency. On page 49 of the guide it is recommended that a terminal (or computer) be a stand-alone device protected from unauthorized access. This goes back to requiring physical access to the network element in order to access the console or management port. On page 47 the guide also states, "Permitting direct dial-in to any vital piece of network infrastructure is potentially very risky...." In-band management methods often depend to one degree or another on the security of the network the element is a part of to protect the management traffic. While this MIGHT provide a reasonable level of protection from external attacks (initiated from outside the network), it generally will not provide a sufficient level of protection from an internal attack (initiated from inside a network). To help reduce the vulnerability to internal attack, the "The Router Security Configuration Guide" has recommendation using a dedicated network or at least dedicated

Lenovo
Ex. 1004 - Page 3

network segments for remote network administration of routers. Building out a dedicated network for management would be quite expensive for most networks.

[0007] There are definite advantages to having an out-of-band remote management connection to network elements that utilize connectivity that is diverse from the primary network connection. One of the primary purposes of the remote management connection is to assist the remote administrator or technician in troubleshooting network problems. With in-band management, if a network problem has hindered connectivity to a network element, management connectivity to that element could be lost when it is needed the most. An out-of-band management solution is more likely to allow the administrator or technician to still remotely access the network element to troubleshoot and resolve the network problem in a timely manner. Also, the out-of-band management connection providing connectivity to the console or management port of an element might be available for the initial configuration of the device whereas an in-band management connection might not be available for initial configuration. It is also possible that some functions can only be performed using the console or management port of the element. An example of this would be Password Recovery on a Cisco router. While a dedicated and secure out-of-band network would be the most preferable solution for out-of-band management from a security standpoint, the cost of such a solution is generally prohibitive. While some form of public shared network, such as the Public Switched Telephone Network (PSTN) or an Integrated Services Digital Network (ISDN) provides the most cost effective solution for a diverse out-of-band connection, the security of such solutions is a major concern.

[0008] The most straightforward means of providing out-of-band connectivity to a network element is to place a modem on the console port of a networking element connecting it to the PSTN. However, any perimeter security for the network such as firewalls and access-lists has just been completely bypassed, providing a vulnerable point for intruders to attack. If an attacker knows or can determine the phone number of the modem then the only security is the logon protection on the networking element itself. War dialers will generally find phone numbers connected to modems.

[0009] It is important to realize that most protocols used for assisting in the remote management of network elements do not provide for the confidentiality or integrity of the information being transmitted between the remote administrator and the network element or strong authentication of the parties involved. This is especially critical if a public shared network

Lenovo
Ex. 1004 - Page 4

such as the PSTN is utilized for the out-of-band connectivity. For instance, the protocol most frequently utilized for remote login to network elements (Telnet) transmits traffic in the clear (any one who can tap into or sniff the network can capture and understand the traffic). It would not be uncommon for a remote administrator to be transmitting passwords and device configurations over such a connection. If an attacker were able to insert himself in the middle of such a connection, even more attacks would be possible.

[0010] In order to control the cost of remote management solutions, user traffic and management traffic are being commingled at multiple locations throughout the management path. The use of the user data network for the transport of management traffic is one place this commingling of data occurs. There is also a commingling of user and management data in the device itself. User traffic and device management traffic comes in over the same user interface, uses the same memory and buffers, and is processed by the same processor. The commingling of user traffic and management traffic can compromise the security of the device management.

[0011] Maintenance and troubleshooting of network element problems can often be facilitated by having the element maintain an accurate time clock. One way of keeping the clock accurate on an element is to allow the network to set the clock utilizing a protocol such as Network Time Protocol (NTP). If an attacker were able to alter or interfere with NTP, the smooth operation of the network could be interfered with.

[0012] Some network elements utilize Hypertext Transfer Protocol (HTTP) or Hypertext Transfer Protocol over Secure Socket Layer (HTTPS) for managing the network element. HTTP transmits information in the clear and is susceptible to impersonation and data compromise. Often HTTPS is only authenticating the server to the client. For remote management, mutual authentication can be important.

[0013] A common difficulty in maintaining the elements of a network is keeping the software on the elements updated with patches that protect them from new exploits by hackers and crackers. One of the functions of firewalls is to protect the elements behind them from these exploits so that it is not as critical to keep protected elements updated. However, this does require the firewalls to be updated regularly to protect the elements from new exploits. Keeping the firewalls updated can be difficult.

[0014] Some of these concerns can be addressed by technology existing today. A firewall/Virtual Private Network (VPN) appliance could be utilized to protect management

Lenovo
Ex. 1004 - Page 5

traffic that flows from a user interface on the managed device to a central location providing services for the management of the device. This would protect the management data while it flows over the in-band network. A terminal server could be utilized to allow an administrator to dial into the managed device over an out-of-band network. Some terminal servers will even allow the connection from the administrator to the terminal server to be encrypted for protection of the management data. However, this does not solve all the concerns. The terminal server does not fully support a centralized mechanism to verify an administrator should have access to the managed device, especially if the in-band network is down. The VPN/Firewall does not support connection to the console port of the managed device. Even having both a VPN/Firewall and a terminal server would leave gaps in the protection.

[0015] It would take a number of different devices configured to work together to address most of the concerns. This would require a number of additional devices in an environment where rack space is very expensive. Having another two or three devices in the rack is quite expensive in more ways than just the cost of the equipment.

[0016] An object of the invention is to provide for the secure management of devices without requiring additional devices taking up additional rack space by embedding the necessary hardware and software for secure management of the device in the device to be managed.

[0017] Another object of the invention is to separate user traffic from device management traffic, logically and/or physically, both in the device and while in transit over a network.

[0018] Another object of the invention is to establish a network enabled management interface for the secure remote management of the device. While similar to a console interface, the secure interface is to be engineered to secure remote access.

[0019] Another object of the invention is to define a virtual management interface for controlling management traffic that will flow over the in-band interfaces. The virtual management interface provides for logical separation of the management data from the user data even when the management data and the user data will transit the same physical network.

[0020] Another object of the invention is to utilize standard packet filtering firewall methods to restrict access to the management interfaces of the device, both real and virtual, based on factors such as the source address of the connection request.

Lenovo
Ex. 1004 - Page 6

[0021] Another object of the invention is to use a means of authentication, including the possibility of strong authentication, to verify the identity of the administrator and restrict access to the management interfaces based on the identity of the administrator.

[0022] Another object of the invention is to use an Access Control Server (ACS) to allow for centralized authentication and authorization of administrators as well as to log accounting information.

[0023] Another object of the invention is to restrict functions and protocols allowed to access the management interfaces to those necessary for remote management of that network element.

[0024] Another object of the invention is to dynamically update the rules used for restricting access to the management interfaces.

[0025] Another object of the invention is to provide for the confidentiality and integrity of the information transmitted between the remote administrator and the management interfaces.

[0026] Another object of the invention is to monitor the management interfaces for proper functioning and alert management software upon failure.

[0027] Another object of the invention is to monitor management interfaces for possible attacks and report possible attacks to Intrusion Detection System management software.

[0028] Another object of the invention is to provide for secure connections to a network providing network services both utilizing the managed device's user data connections and over a dedicated secure network enabled management connection.

[0029] Another object of the invention is to access network services such as ACS, Domain Name Server (DNS), NTP, Network Management Stations, Logging Servers, and Intrusion Detection Systems management stations over either an in-band network connection or over the network enabled management connection (or both) and dynamically switch between which network is being utilized for the service.

[0030] Another object of the invention is to allow a remote administrator or technician to access the management interfaces via either an in-band connection or a network enabled management connection (or both).

[0031] Yet another object of the invention is to provide auditing information about attempted connections (successful and unsuccessful) to the management interfaces.

[0032] Yet another object of the invention is to alert management software on unsuccessful attempts to connect to management interfaces.

Lenovo
Ex. 1004 - Page 7

[0033] Yet another object of the invention is to be able to securely manage the device through in-band connections to the virtual management interface, the network enabled management connection, or the console port.

[0034] A further object of the invention is to enable securing a plurality of management protocols for managing the device, both over in-band connections to the virtual management interface and over the secure network enabled management connection. Exemplary protocols to be secured include telnet, ssh, http, https, snmp, dns, tftp, ftp, ntp, and xml.

[0035] A further object of the invention is to provide the end-point for an in-band or out-of-band connection between the network segments providing network services and the management interfaces on the managed devices which can be secured using protocols such as IPSec or may be unsecured.

[0036] A further object of the invention is to provide the ability for the managed device to switch which management path is being utilized for management network services, in particular, the managed device can utilize in-band connections for management network services when available and switch to using a network enabled management connection for management network services when an in-band connection is not available.

[0037] A further objective of the invention is to enable the secure management of other devices that are collocated with the managed device.

[0038] A further objective of the invention is to provide for the ability to easily upgrade existing hardware to support secure management of the device.

[0039] Finally, it is an object of the present invention to accomplish the foregoing objectives in a simple and cost effective manner.

BRIEF SUMMARY OF THE INVENTION

[0040] The present invention addresses the foregoing problems, as well as other problems, by providing an exemplary embodiment of a Secure Management Access Control for Computer Chipset (SMACC) for inclusion in devices that are to be enabled for remote management. In this preferred exemplary embodiment, the SMACC functions are implemented on a separate processor with separate flash and memory; however, this is not intended to limit the implementation of these features to separate chipsets in a device. These features also can be combined with other hardware and software features such as being integrated with a modem or

Lenovo
Ex. 1004 - Page 8

with the main processor of a device. Some of the features of the SMACC can also be implemented separately. Such implementations would still be within the spirit and scope of this invention.

[0041] An additional exemplary embodiment of the invention implements the SMACC processor and supporting chips on a card that can be inserted into the device to be managed. In this implementation, management of the device is controlled by the card and the administrator must connect to the card to manage the device. The administrator will be able to connect to the SMACC card through the Virtual Management Interface (VMI) or directly through a SMACC interface on the SMACC card.

[0042] A primary function of the SMACC is to provide for the separation of management data from user data both within the device being managed and while the management information is in transit. Within the device, the SMACC sets up a separate processor for receiving management information and interacting with the control functions of the device. Remote management functions will pass through the SMACC processor. The SMACC also provides for a separate interface for management functions that is network enabled to facilitate remote management. Various embodiments of the invention allow for different types of interfaces to be utilized for the network enabled management interfaces. Exemplary interfaces could include POTS connections to the PSTN, Packet Cellular connections to a cellular provider's infrastructure, an Ethernet interface to a broadband modem and the Internet, or a wireless connection. The types of interfaces are not limited to those in this list to be within the scope of this invention. A VMI is also established for logically separating management traffic from user data when the in-band path is to be used for management data. The VMI is the interface between the SMACC chipset and the user data interfaces. The VMI utilizes existing and developing technology such as VPN to build secure tunnels between the SMACC chipset and the management center while utilizing the user data interfaces of the managed device and the user network to provide the transport of the management data cost effectively. The VPN technology provides the logical separation, confidentiality, and integrity of the management traffic while it is in transit.

[0043] Another primary function of the SMACC is to protect the management interfaces from attack. This is accomplished through a combination of firewall, VPN, and authentication and authorization applications. The SMACC chipset implements the logic to support VPN

Lenovo
Ex. 1004 - Page 9

tunnels to the management center, thus protecting the management traffic between the management interface on the SMACC (VMI or SMACC interface) and the management center. The firewall functionality protects the SMACC chipset from access by unauthorized parties, both internal and external, and from unauthorized protocols. An exemplary embodiment of the SMACC can be configured to only allow the protocols necessary for managing the device to access the SMACC. No other protocols will be allowed through the interface. The authentication and authorization of administrators can either be configured and accomplished locally to the SMACC, and/or centralized services can be accessed at the management center utilizing the secure management interfaces to the management center (VMI or SMACC interface). The SMACC implements the client protocol for exemplary services such a Remote Authentication Dial-In User Service (RADIUS) protocol, Terminal Access Controller Access Control System (TACACS+), or Lightweight Directory Access Protocol (LDAP).

[0044] The SMACC allows the use of shared networks including public networks such as the Internet, the Public Switched Telephone Network (PSTN), or a corporate backbone network for secure network management while still providing for the confidentiality, integrity, and logical separation of the management data. In an exemplary embodiment, this is accomplished by utilizing Virtual Private Networking (VPN) technology to build secure tunnels between one or more management interface on the SMACC and the management center providing network resources for management. The VPN tunnels provide for logical separation of the management traffic from any other traffic utilizing the network. The VPN tunnels also utilize encryption to provide for the confidentiality and integrity of the management traffic utilizing the network. SMACC increases both the security and the availability of remote management of devices.

[0045] The SMACC allows for access controls both on what remote devices can connect to the management interfaces of the SMACC (and can therefore access the management functions of the managed device), and what administrators (users) are allowed to connect to the management interfaces of the SMACC. In an exemplary embodiment of the invention, what devices are allowed to connect to the SMACC can be filtered by network level addresses such as Internet Protocol (IP) addresses or calling telephone numbers, as well as by presenting valid credentials such as a certificate or proof of a shared secrete. Administrators can also be challenged for valid credentials and authorization. The SMACC can check these credentials either in a locally maintained database on the SMACC or by utilizing centralized authentication

Lenovo
Ex. 1004 - Page 10

services at the management center. The SMACC optionally implements one or more authentication clients such as a RADIUS, TACACS+, or LDAP client to utilize the centralized authentication services.

[0046] In a preferred exemplary embodiment of the SMACC, the SMACC can be configured to monitor the various management interfaces for connectivity and report the loss of connectivity to the management center. This includes interfaces that are to be available even if they are not currently being utilized to transport management data. One example of this is when a POTS line is connected to a SMACC interface and is configured to be a backup for management data if the connection to the management center via the VMI is not available. In this situation, the SMACC can be configured to be checking the available of the connection to the PSTN even when it is not being utilized for management data. It is critical for that POTS connection to be there if it is needed. Other types of interfaces can also be checked for availability by the SMACC processor. If the SMACC detects a management interface that it is monitoring as being unavailable, it reports this to the management center over another available management interface using protocols such as Simple Network Management Protocol (SNMP), trap or syslog.

[0047] In a preferred exemplary embodiment of the SMACC, the SMACC can utilize network services to provide a centralized and scalable solution for secure remote management of the network. Some of the network services accessed can include an ACS to provide for centralized authentication and authorization at the user level, a NTP server to provide time synchronization for the managed device, a DNS to provide secure name resolution for the managed device, a logging server to provide for centralized logging, a network management station to provide for centralized management of the managed device utilizing a protocol such as SNMP, and an intrusion detection/prevention management system.

[0048] The SMACC implements the clients to access and utilize these services. The SMACC can access the centralized service via the VMI and through a connection to the backbone network (or an operations support network) or via a SMACC interface through an out-of-band network, such as the PSTN or a packet cellular network, to the management center. In a preferred exemplary embodiment of the SMACC, the clients running on the SMACC can access the servers at the management center over any available management interface and the interface being utilized can change depending on the conditions at the time.

Lenovo
Ex. 1004 - Page 11

[0049] The SMACC may have information it can configure to send to the management center concerning its own operation and the operation of the managed device (or proxy managed devices). This information can be sent to the management center utilizing protocols such as SNMP traps, or remote syslog records as well as other possible proprietary or stands based protocols. The SMACC will utilize the first available management interface in a preferred priority list for transporting this information back to the management center. This information can include auditing information, operational information, and alerts as well as other possible information.

[0050] A preferred exemplary embodiment of the SMACC will detect attempts to access the management interfaces by unauthorized systems or users. The SMACC can be configured to report these attempts to the management center. The SMACC can also be configured to detect and report attempts to utilize unauthorized protocols to access the management interfaces to the SMACC.

[0051] An exemplary embodiment of the SMACC enables remote administrators to access the managed device via the SMACC by first accessing the management center and then connecting to the SMACC via the secure tunnel from the management center to the SMACC. The plurality of possible paths may exist from the management center to the SMACC, both utilizing the VMI on the SMACC and SMACC interfaces on the SMACC. The remote administrator will be able to utilize any of these interfaces to connect from the management center to the SMACC.

[0052] A variety of exemplary embodiments are possible supporting various protocols for the management of the managed device via the SMACC. These protocols can utilize any of the SMACC management interfaces. Example management protocols that can be supported include: telnet, ssh, http, https, snmp, dns, tftp, ftp, ntp, and xml. This is not intended to be an exhaustive list of possible protocols for which there might be requirements for supporting for the management of a device.

[0053] An additional exemplary embodiment of the SMACC allows the SMACC processor to be utilized as a secure management proxy for other devices collocated with the device containing the SMACC. User interfaces on the managed device can be specified as proxy management interfaces. Proxy Management Interfaces can be either Console Interfaces or Dedicated Management Segments and will connect to a proxy managed device. A proxy

Lenovo
Ex. 1004 - Page 12

managed device does not have a SMACC, but is being managed via a collocated device that does have a SMACC. Since the communications between the proxy managed device and the SMACC enabled device may not be secure, it can be important for the proxy managed device and the SMACC enabled device to be physically secured together.

[0054] The SMACC processor will control data in and out of the interfaces configured as proxy management interfaces for the passing of management information between the proxy managed device and the SMACC. In a preferred exemplary embodiment, proxy console management interfaces will be restricted to management data only and will be serial interfaces providing a terminal emulation program type of access to the console or management interface on the proxy managed device collocated with the SMACC enabled device. In an exemplary embodiment of the invention, the proxy dedicated management segment is also restricted to management data only in order to provide for physical separation of management data from user data, however, an additional exemplary embodiment of the invention would allow the segment to support both user data and management data. In the exemplary embodiment in which the management segment will support both management data and user data, the SMACC and optionally support utilizing VPN technology to logically separate the management data from user data. The VPN technology could also be utilized to ensure confidentiality and integrity of the management data between the SMACC and the proxy managed device.

[0055] In a preferred exemplary embodiment of the SMACC that supports proxy management of collocated devices, the SMACC can implement both application level proxies for the management protocols to be supported as well as an application level tunnel for passing management traffic between the proxy managed device and the management center.

[0056] An additional exemplary embodiment of the current invention implements the SMACC chipset on a card that can be connected to a system. In the illustrated exemplary embodiment, the card connects to the managed system via a Peripheral Component Interconnect (PCI) bus, but this should not be taken to limit the current invention to a PCI implementation. Any connection of the card to a system to be managed is within the scope of the current invention. The use of a card connecting to a system provides for greater opportunity to utilize the SMACC with existing hardware and hardware designs.

[0057] The SMACC provides for the separation of management data from user data both in the device being managed and while the management data is in transit. Since there is a very

Lenovo
Ex. 1004 - Page 13

strong need for securing remote management and for separating management data from user data, yet this has not been done primarily because it has been considered too expensive to implement, this invention is clearly not obvious to one of ordinary skill in this area. This invention combines existing building blocks along with additional new and innovative features and concepts to solve the shortcomings in remote management in an integrated and affordable solution.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S)

[0058] Having thus described the invention in general terms, reference will now be made to the accompanying drawings, which are not necessarily drawn to scale, and wherein:

[0059] FIG. 1 is a block diagram for an exemplary embodiment of the embedded SMACC chip set within a device to be monitored;

[0060] FIG. 2 is a block diagram for an exemplary embodiment of the embedded SMACC chip set within a device to be monitored along with a power supply;

[0061] FIG. 3 illustrates the interfaces to the SMACC processor;

[0062] FIG. 4 illustrates network connectivity to the management interfaces;

[0063] FIG. 5 illustrates an additional design for connectivity to the management interfaces;

[0064] FIG. 6 illustrates the packet filtering for access to the SMACC;

[0065] FIG. 7 illustrates the selection of a secure path for management services;

[0066] FIG. 8 illustrates changing which management path is used for management services;

[0067] FIG. 9 is a block diagram of an exemplary embodiment of the embedded SMACC chipset including an integrated modem;

[0068] FIG. 10 is a block diagram of an exemplary embodiment of the embedded SMACC chipset including an Ethernet SMACC interface;

[0069] FIG. 11 is a block diagram of an exemplary embodiment of the embedded SMACC chipset including an integrated packet cellular interface;

[0070] FIG. 12 is a block diagram of an exemplary embodiment of the embedded SMACC chipset including an slot interface for an interchangeable card for a SMACC interface card;

[0071] FIG. 13 is a block diagram of an exemplary embodiment of the embedded SMACC chipset including multiple SMACC interfaces;

Lenovo
Ex. 1004 - Page 14

[0072] FIG. 14 is a block diagram of an exemplary embodiment of the embedded SMACC chipset without dedicated flash, NVRAM, or RAM chips;

[0073] FIG. 15 illustrates a sample circuit for monitoring the voltage on a telephone line;

[0074] FIG. 16 illustrates a process for monitoring a telephone line for connectivity to a central office;

[0075] FIG. 17 is a block diagram of an exemplary embodiment of the embedded SMACC chipset with an external UPS;

[0076] FIG. 18 is a block diagram of an exemplary embodiment of a SMACC card for interfacing to a managed device;

[0077] FIG. 19 is a depiction of the system architecture of an exemplary embodiment of a system with a SMACC card;

[0078] FIG. 20 is a block diagram of an exemplary embodiment of a system with an embedded SMACC showing a user interface configured as a proxy management interface;

[0079] FIG. 21 illustrates a user interface configured as a proxy management interface;

[0080] FIG. 22 illustrates a SMACC enabled device acting as a proxy management system for another collocated device providing both a console connection to the collocated device and a management segment connection to the collocated device;

[0081] FIG. 23 is a block diagram of an exemplary embodiment of the SMACC card including an Ethernet SMACC interface;

[0082] FIG. 24 is a block diagram of an exemplary embodiment of the SMACC card including a Packet Cellular SMACC interface;

[0083] FIG. 25 is a block diagram of an exemplary embodiment of the SMACC card including an analog modem based SMACC interface;

[0084] FIG. 26 is a block diagram of an exemplary embodiment of the SMACC card including multiple SMACC interfaces;

[0085] FIG. 27 is a block diagram of an exemplary embodiment of the SMACC card in which dedicated proxy management interfaces are included on the card;

[0086] FIG. 28 is a block diagram of an exemplary embodiment of the SMACC processor connecting to a PCI bus in which a controller chip is required for the SMACC processor to access the PCI Bus;

Lenovo
Ex. 1004 - Page 15

[0087] FIG. 29 is a block diagram of an exemplary embodiment of the SMACC processor connecting to the system Central Processing Unit (CPU) bus of the system the SMACC is being embedded in which a controller chip is required for the SMACC processor to access the system CPU bus;

[0088] FIG. 30 is a block diagram of an exemplary embodiment of the SMACC chipset with an additional chip to implement the VPN technology;

[0089] FIG. 31 illustrates an exemplary power up sequence for a system that has both a SMACC processor and a main processor; and

[0090] FIG. 32 illustrates Fast Hangup.

DETAILED DESCRIPTION OF THE INVENTION

[0091] The present invention now will be described more fully hereinafter with reference to the accompanying drawings, in which preferred embodiments of the invention are shown. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. Like numbers refer to like elements throughout.

[0092] FIG. 1 illustrates the positioning of the SMACC chipset within the managed device. In a preferred exemplary embodiment, the SMACC processor has its own flash, Non-Volatile Random Access Memory (NVRAM), and Random Access Memory (RAM) for operating, however, an alternative exemplary embodiment as illustrated in FIG. 14 is also possible in which the SMACC processor utilizes the same flash, NVRAM, and RAM chips as the main processor and such implementations are not excluded. In these exemplary embodiments, it may be necessary to utilize a controller chip for the SMACC processor to access the necessary bus as illustrated in FIGS. 28 and 29.

[0093] The Flash chip is intended to safe the programs and microcode for the SMACC processor, the NVRAM to store operating parameters and configurations, and the RAM to act as the operating memory for the SMACC processor. It should be noted that additional chips can be included for additional security or to offload processing from the SMACC processor while still being included in the intent of this invention. An additional exemplary embodiment of the SMACC chipset, as illustrated in FIG. 30, included a dedicated chip for providing IPSec.

Lenovo
Ex. 1004 - Page 16

[0094] It is also likely in time that system on chip (SOC) capabilities will continue to expand to the point where it could be economical to use a processor for the SMACC processor that includes some or all of the flash, or NVRAM on the same chip as the SMACC processor. To do so is still considered to be within the scope of this invention.

[0095] FIG. 2 illustrates the option of the SMACC processor and supporting chips having a power circuit from the power supply that is different from the circuit utilized for the main processor of the SMACC enabled device. This would enable a couple of significant features. It would allow the inclusion of a small Uninterruptible Power Supply (UPS) that could then selectively provide power only to the SMACC when there is a power loss. The SMACC could then report the power loss over the SMACC interface that could still be operational even in the event of a loss of power (such as could be the case with a PSTN connection or if the SMACC interface is a cellular network connection). This way the UPS would not have to be large enough to provide power for the entire device while reporting the power outage. An additional feature enabled by a separate circuit for the SMACC chipset is the ability to reload and power cycle the SMACC chipset and the main device discreetly. The main device can be reloaded while the SMACC remains operational allowing for the secure remote monitoring and control of the device boot process over the SMACC interface. The SMACC processor can also be reloaded without the main device being reloaded at the same time.

[0096] A preferred exemplary embodiment as illustrated in FIG. 31 allows for the device to be configured such that on power up, the SMACC chipset receives power first and is allowed to load before the main device is powered up. This allows the main device boot process to be monitored over the SMACC interface on power up. An alternate exemplary embodiment provides for separate power switches for the two circuits such that they could be powered up separately. An additional exemplary embodiment includes separate connections to an external power source or outlets such that common remote power management solutions could be utilized to power up the SMACC separately from the main device.

[0097] In a preferred exemplary embodiment of the SMACC, as shown in FIG. 3, the SMACC has two types of interfaces for transporting management traffic between the SMACC and the management center:

Lenovo
Ex. 1004 - Page 17

[0098] Virtual Management Interface (VMI)--logically separates management traffic from user data traffic when a user interface on the managed device is going to be utilized for the network connection, and

[0099] SMACC Network Enabled Management Interface--provides a physically separate interface for the management network connection rather than the user interfaces on the managed device.

[00100] Virtual Management Interface (VMI)

[00101] The Virtual Management Interface (VMI) logically separates management traffic from user data when they are going to utilize the same interfaces on the managed device and the same physical network. In a preferred exemplary embodiment of the current invention, the VMI will utilize a Virtual Private Network (VPN) mechanism such as IPSec to encrypt, protect and logically separate the management traffic before the traffic is passed to the user interfaces. The managed device is designed such that management traffic is not allowed to be sent directly to the user interfaces. All management traffic must go through one of the management interfaces (the VMI or the SMACC interface). The VMI allows any of the user interfaces to be utilized for management traffic while still protecting the management interface and traffic.

[00102] SMACC Network Enabled Management Interface (SMACC Interface)

[00103] The SMACC interface is an interface that is dedicated for management traffic for management of the device. The SMACC interface is a network enabled interface and therefore is able to support the full range of protocols that are typically utilized for management of a device such as SNMP, Trivial File Transfer Protocol (TFTP), File Transfer Protocol (FTP), DNS, SysLog, Telnet, Secure Shell (SSH), or HTTP. The SMACC interface will also control access to the management functions of the device and protect the management traffic in transit through the utilization of VPN technology such as IPSec. The SMACC interface can be utilized to connect to a central location that provides for these network services as well as for remote administrator access.

[00104] Several embodiments of the SMACC with different types of physical interfaces for a SMACC interface are illustrated. FIG. 9 illustrates an embodiment in which the physical SMACC interface is an integrated analog modem for connection to a PSTN. FIG. 10 illustrates an embodiment of the SMACC in which the physical SMACC interface is an integrated Ethernet interface. This embodiment would be particularly useful it the SMACC interface is going to be

Lenovo
Ex. 1004 - Page 18

connected to a broadband modem and the out-of-band connection is going to be over the Internet. FIG. 11 illustrates an embodiment of the SMACC in which the SMACC interface is an integrated cellular interface for connectivity to a packet cellular network. This embodiment would be both for inclusion in transmission equipment where it would be difficult to break out a circuit for monitoring the equipment, and where the primary circuit is a Digital Subscriber Line (DSL) where disruption of the DSL circuit could also disrupt a POTS line. FIG. 12 illustrates an embodiment of the SMACC in which the SMACC interface includes a card slot such as a Personal Computer Memory Card International Association (PCMCIA) card for inclusion of different types of interface cards. There are exemplary embodiments only are not intended to limit the SMACC to these types of interfaces. Other types of interfaces are also within the scope of this invention.

[00105] A SMACC is not limited to only one SMACC interface in implementation. FIG. 13 illustrates an embodiment of the SMACC that includes multiple SMACC interfaces.

[00106] SMACC Card

[00107] The SMACC can also be implemented as a card for insertion into a device to be SMACC enabled. An exemplary embodiment of a SMACC card is depicted in FIG. 18. FIG. 19 illustrates the architecture of a system that has a SMACC card inserted into a slot. In this situation, it is likely that the SMACC card would not be on the same bus as the main CPU and the main CPU could well already have its own console port.

[00108] There are also a number of exemplary embodiments of SMACC cards with different exemplary embodiments included. FIG. 25 illustrates an embodiment in which the physical SMACC interface is an integrated analog modem for connection to a PSTN. FIG. 23 illustrates an embodiment of the SMACC card in which the physical SMACC interface is an integrated Ethernet interface. This embodiment would be particularly useful it the SMACC interface is going to be connected to a broadband modem and the out-of-band connection is going to be over the Internet. FIG. 24 illustrates an embodiment of the SMACC card in which the SMACC interface is an integrated cellular interface for connectivity to a packet cellular network. This embodiment would be both for inclusion in transmission equipment where it would be difficult to break out a circuit for monitoring the equipment and where the primary circuit is a DSL line where disruption of the DSL circuit could also disrupt a POTS line. There are exemplary

Lenovo
Ex. 1004 - Page 19

embodiments only are not intended to limit the SMACC to these types of interfaces. Other types of interfaces are also within the scope of this invention.

[00109] A SMACC card is not limited to only one SMACC interface in implementation. FIG. 26 illustrates an embodiment of the SMACC card that includes multiple SMACC interfaces.

[00110] Proxy Management Interfaces

[00111] In an additional exemplary embodiment of the SMACC in which the SMACC can be utilized to manage additional devices collocated with the SMACC enabled device, there is a third type of management interface as illustrated in FIGS. 20 and 21. A proxy management interface is not utilized for communicating management data between the SMACC and the remote management center. Rather, a proxy management interface is utilized for communicating management data between a collocated device and the SMACC in which the SMACC is going to act as a proxy for the device providing it with a secure connection to the management center. The SMACC may also provide the proxy managed device with proxy applications for the management of the device.

[00112] The connections between the SMACC enabled device and the proxy-managed device (as illustrated in FIG. 22) can be either connections to the console port on the proxy managed device, and or a dedicated management segment.

[00113] When the connection between the SMACC enabled device and the proxy-managed device, illustrated in FIG. 22, is to a console or management interface on the proxy-managed device, the interface is generally a serial interface and is dedicated for management data. This interface is also typically only used to provide a command line interface for the device.

[00114] The dedicated management segment, also illustrated in FIG. 22, typically can support some sort of networking protocol. In this exemplary embodiment of the SMACC, the dedicated management segment supports the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol for networking. This allows a more complete suite of management protocols to be utilized for the management of the proxy managed device. The SMACC enabled device can be utilized to protect Telnet, SSH, TFTP, FTP, HTTP, HTTPS, DNS, NTP, Extensible Markup Language (XML), syslog records, RADIUS transactions, TACACS+ transactions, LDAP transactions, or other protocols for the proxy managed device. Some protocols or services might be configured to be passed through from the proxy-managed device to the management center

Lenovo
Ex. 1004 - Page 20

utilizing an application level gateway on the SMACC for passing this information on. Other applications, such as SNMP, might be implemented as a proxy on the SMACC.

[00115] In a preferred exemplary embodiment of the SMACC with proxy management capabilities, the proxy management segments to the proxy managed devices (as illustrated in FIGS. 20-22) should be dedicated for management data between the SMACC and the proxy managed device. This provides the separation of the management data as recommended in the NSA guidelines. The interface type for the dedicated management segment can be any type of interface supported by both the SMACC enabled device and the proxy managed device.

[00116] However, in some environments, the dedication of an interface for management data may be greater than a customer can support. For this environment, and alternative embodiment of the SMACC proxy function supports the use of proxy management segments that allows both management data addressed and routed to the SMACC and user data over the same interface. Another alternative embodiment for the SMACC proxy function when the proxy interface is a Local Area Network (LAN) interface is the use of Virtual LANs (VLANs) for separating management traffic from user traffic. VLANs are not as secure as utilizing physically separate interfaces, but for many customers this would be acceptable. One VLAN would point to the SMACC and another VLAN would be utilized for user data. Another alternative embodiment for the SMACC proxy function would be to utilize a VPN tunnel between the SMACC and the proxy managed device. This is an option when the proxy managed device supports the VPN technology on the interface and allows some aggregation of the VPN tunnels at the SMACC enabled device so that every device does not need a VPN tunnel back to the management center.

[00117] An additional exemplary embodiment of the SMACC illustrated in FIG. 26 includes additional interfaces as part of the SMACC chipset dedicated as proxy management interfaces. This would be especially useful when a SMACC card is being utilized to SMACC enable a device that does not have an abundance of native user interfaces (for example, a server). This would allow a card to be inserted into a system to manage that system and would allow the card to also manage other collocated systems even if the SMACC enabled system does not have the additional interfaces. These interfaces could be a combination of serial interfaces to be utilized as console proxy management interfaces and interfaces of any type to be utilized as dedicated management segments.

[00118] Access to Network Services

Lenovo
Ex. 1004 - Page 21

[00119] To effectively manage a large number of devices, it is important for the devices to have access to a set of services provided through a network. These services are often centrally located at a network operations center (NOC) or management center, as depicted in FIG. 4, or at an Application Service provider (ASP). A SMACC enabled device will be able to be configured to securely access these network services over the user interfaces utilizing the VMI or over the SMACC interfaces. There are significant advantages in a network design that allows the management service to be accessed over either type of interface. Typically the network services like an ACS server, a DNS server, a logging server, a network management station, or an NTP server will need to be accessed.

[00120] There are a number of ways the management interfaces of a SMACC enabled device can be utilized in a network for remote management of the network elements. Some of the sample configurations include:

- Secure Management Access via remote administrator dial over PSTN;
- Secure Management Access via Gateway or Network Access Server (NAS) to Out-of-Band Network; and
- Network Services provided via Out-of-Band Network.

[00121] Secure Management Access Via Remote Administrator Dial Direct to SMACC

[00122] In this scenario shown in FIG. 4, the remote administrator is using his work station to directly dial the PSTN phone number for the managed device in order to access a SMACC interface on the managed device. In a preferred exemplary embodiment, the SMACC sets up a point-to-point Internet Protocol (IP) connection to the remote administrator and the remote administrator would run a secure client such as secure shell or an HTTPS client on his workstation for communicating with the SMACC interface. This would secure the communications between the remote administrator and the SMACC.

[00123] The SMACC can and should be configured to perform authentication and authorization of the remote administrator before allowing access to the management functions for the managed device. While the SMACC could be configured with a database of authorized administrators, it is also possible to utilize an ACS to authenticate and authorize a remote administrator. The SMACC utilizes its VMI to access network services such as an ACS in the network using a protocol such as RADIUS, TACACS+, or LDAP. This would allow centralized authentication and authorization of the administrators. In this type of configuration, if

Lenovo
Ex. 1004 - Page 22

connectivity to the network services is down, the SMACC would not be able to utilize a central ACS and would have to revert to allowing access based on a locally maintained database.

[00124] Secure Management Access Via Gateway to Out-of-Band Network

[00125] FIG. 5 shows another configuration that can be used to allow remote administrators access to a SMACC enabled managed device. A gateway or Network Access Server (NAS) is utilized to dial out to the SMACC interface on the managed device from a secure network that provides the needed network services. When the administrator initiates a connection to the address of the SMACC interface, the gateway will initialize a connection to the SMACC interface (using a VPN tunnel) if a connection is not already up. The SMACC interface can then also utilize the VPN tunnel back to the management center to access the needed network services (including an authentication/authorization server) if the services are not available over the VMI.

[00126] The out-of-band network does not have to be a PSTN network. For instance, in FIG. 5, if the SMACC's connection to the out-of-Band network is a DSL connection to an Internet Service Provider (ISP) and the Network Operations Center Network has a gateway to the internet this diagram would work as well.

[00127] Network Services Provided Via Out-of-Band Network

[00128] One difficulty with using a centralized ACS is that, on occasion, a network administrator is attempting to access a network element during problem determination when the network connectivity is down. Requiring an administrator to know a locally configured password on the managed device to access the management interface to a network element every time network access was down would risk the security of the system. Too many people would have access to the password.

[00129] A major advantage of the network design in FIG. 5 is the utilization of the out-of-band network connection for connectivity to the ACS for authentication and authorization as well as other network services. If the SMACC interface is utilizing a broadband connection such as DSL to access an ISP and then is utilizing a VPN client to connect to a VPN gateway on the in-band data network, not only can this VPN tunnel be used for remote administrator access to the SMACC interface, but the VPN tunnel can also be used by the SMACC interface to access network services at the network operations center. The managed device can be configured to always utilize the out-of-band connection for network services, or only to utilize it when they are not available over the VMI because the user network connections are down. The connection

Lenovo
Ex. 1004 - Page 23

between the User Data Network and the Internet would be able to utilize VPN services that exist today for VPN gateways.

[00130] In the configurations where a VPN tunnel is being built across the out-of-band network as shown in FIG. 5, the network administrator may decide to allow the remote administers to use the telnet protocol to access the managed device if they trust the security of the Network Operations Center Network. The telnet traffic would travel in the clear between the remote administer and the gateway. In the exemplary embodiment, the gateway would encapsulate the traffic in an Internet Protocol Security (IPSec) tunnel providing for data confidentiality and integrity as it travels across the "untrusted" out-of-band network. The SMACC would then receive the traffic from the IPSec tunnel and would proxy the management of the rest of the device.

[00131] The SMACC can be configured to filter packets on various criteria such as origin IP address or telephone number. For example, as shown in FIG. 6, if a packet is not from a valid source, log information will be recorded and the packet will be discarded. If the destination of the packet is for the managed device, the packet will continue to be processed. If the destination is not for the managed device, the packet may optionally be logged and will be discarded. The management interfaces of the SMACC can also be configured to only allow the specific interfaces necessary for management of the device. If the packet is not for a necessary protocol, it will optionally be logged and discarded.

[00132] The SMACC can make extensive use of network services in order to facilitate the remote management of SMACC enabled devices. These services can include a centralized authentication server, a network time server (utilizing a protocol such as network time protocol (NTP)), remote logging servers, and network management stations for reporting. The SMACC is set up to be able to access these network servers over the VMI interface or over the SMACC interface. There are circumstances where it would be useful to utilize the VMI interface when connectivity is available and only use the SMACC interface when the in-band connections for the VMI are not available. The SMACC can be configured to attempt to connect to network services according to a priority list starting at the top of the list, see FIG. 7.

[00133] In the event that an existing connection of a network service is lost, the SMACC can attempt to reestablish a connection to the network service over another interface, as shown in

Lenovo
Ex. 1004 - Page 24

FIG. 8. The SMACC can be configured to give preference to the VMI or to the SMACC interface.

[00134] An exemplary embodiment of the SMACC interface may include an integrated modem, as illustrated in FIG. 9, consisting of an interface to a telephone line and a Data Circuit-terminating Equipment (DCE) interface for a connection to Data Terminal Equipment (DTE). Additional exemplary embodiments of the SMACC interface may include one or more of the network interfaces illustrated by FIGS. 10 and 11 which include but is not limited to an Ethernet interface or a cellular interface. In particular, this application would be well suited for cellular packet data.

[00135] An additional exemplary embodiment is depicted in FIG. 12 in which the SMACC interface on a device can be a card where the user can select the type of interface they want for the SMACC interface by plugging the appropriate card into the SMACC slot.

[00136] An additional alternate exemplary embodiment is illustrated in FIG. 13 in which there can be multiple SMACC interfaces for dedicated management access. This provides for additional redundancy and reliability of the SMACC interface functionality over multiple networks.

[00137] FIG. 14 depicts an additional exemplary embodiment in which the SMACC processor does not have its own dedicated Flash, RAM, or NVRAM, but rather shares these resources with the main processor. In this embodiment, segments of these resources would be dedicated for use by the SMACC processor.

[00138] Command, Control, and Monitoring functions for the device being managed are passed through the SMACC processor. This will include configuration commands, operational commands, monitoring commands and updates, etc. Only user data will not have to pass through the SMACC processor. SNMP traps and remote syslog messages will also be passed through the SMACC and sent on either the VMI or a SMACC interface.

[00139] When an administrator is logged into the SMACC processor for controlling the managed device, there will also be commands for configuring and controlling the SMACC processor itself. This will include configuration of parameters for the SMACC interface, the Virtual Management Interface, configuration of connectivity parameters for the gateway device at one or more management centers, configuration of network services located at the management center, configuration of access controls restricting what administrators are

Lenovo
Ex. 1004 - Page 25

authorized to access the management functions of the device, as well as other possible functions and commands. Among the possible services to be configured on the SMACC for utilizing are network management stations utilizing SNMP or XML, TFTP servers, FTP servers, remote syslog servers, NTP servers, and DNS servers.

[00140] The availability of multiple and diverse paths for reporting status information to monitoring stations or allowing for remote configuration of the device are significant advantages of designs where only one or non-diverse paths are utilized. The use of the SMACC interface to connect to and protect traffic over a diverse network allows the device to regularly report on the status of the device and its connections even in the face of a loss of the network connection. This status information can be reported via standardized means such as Simple Network Management Protocol (SNMP), or via private protocols, or a combination of both either over the VMI when it is available and/or over the SMACC interface. This is especially important if status information is to be communicated when the user interfaces are down.

[00141] It is also possible to configure the SMACC processor to receive console messages and log messages, filter the messages, and send an alert over either the VMI and/or the SMACC interface for certain error conditions such as a particular interface going down. If the interface that went down were the interface the router would normally utilize for connectivity to the management center, the SMACC interface might be the only way the alert gets sent.

[00142] The use of the VMI for connecting to the SMACC processor for management of the device allows the management data to logically isolated from user data, but still physically use the user data network. This has the possibility of reducing charges for the secondary network utilized by the SMACC interface, especially if charges for the secondary network are based upon connect time or packet/byte counts. The normal operational method of reaching the SMACC processor would be through the in-band network to the VMI, and only then a path to the VMI is not available would the secondary network need to be utilized. Since the secondary network often has lower performance characteristic, it is likely that the in-band path through the VMI will also provide for a faster connection when the in-band data network connection(s) are available.

[00143] The exemplary embodiment of the SMACC interface includes a POTS connection to the PSTN depicted in FIG. 9. An additional exemplary embodiment includes a means of automatically monitoring the status of the connection to the telephone network. This monitoring can be accomplished by measuring the voltage levels of the telephone line with a circuit similar

Lenovo
Ex. 1004 - Page 26

to FIG. 15 and/or by periodically taking the line off-hook and checking for dial tone as shown in the flow chart in FIG. 16. If the SMACC detects the connection to the telephone network is malfunctioning it will notify a monitoring station using the management connection over the VMI or if additional SMACC interfaces are operational, over another SMACC interface.

[00144] In the exemplary embodiment depicted in FIG. 2 where a UPS is incorporated to supply a limited amount of power to the SMACC processor and chipset on the loss of power to the managed device, an additional exemplary embodiment allows the SMACC processor to monitor the supply of external power to the power supply. The exemplary embodiment depicted in FIG. 17 utilizes an external UPS to provide a limited supply of power in the event of a power outage and provide a management connection from the external UPS to the SMACC for management of the UPS. This would include notification by the UPS to the SMACC on the loss of external power. If the SMACC detects a power loss from the external power source, it will notify the management center of the loss of power. It is likely that the VMI will not be able to be utilized for this notification if power has been lost, but for certain secondary networks such as the PSTN network or a cellular network, it is likely that the SMACC interface to that secondary network would be able to be used to report the outage.

[00145] In yet another exemplary embodiment of the SMACC processor as depicted in FIG. 2, the SMACC processor can provide a means of "cycling" the power for the managed device. When logged into the SMACC processor, the administrator could issue the "power cycle" command to cycle the power for the circuit for the main processor (circuit 2 in FIG. 2). Allowing an administrator to power cycle device while connected to SMACC processor over a SMACC interface allows the remote administrator to see all the boot commands for the managed device.

[00146] In order to defend against denial-of-service attacks on the PSTN line the SMACC Interface receives Caller ID on the calls it receives. Filtering of calls based on Caller ID can be performed by the SMACC processor. In an exemplary embodiment, calls from an unauthorized source will be answered and immediately disconnected as illustrated in FIG. 32. Notification of the attack can be made to the management center (over the VMI or a SMACC interface). If the VMI does not have an operational path to the management center and a SMACC interface is not available, the SMACC processor can be configured to bring up a SMACC interface to report the attack to the management center.

Lenovo
Ex. 1004 - Page 27

[00147] The VMI allows the SMACC processor to utilize data network ports to securely tunnel management traffic to the management center. The SMACC will run a suitable Virtual Private Network (VPN) protocol such as IPSec over the VMI. This allows the SMACC to take advantage of many services available at the management center such as network management applications, Network Time Protocol Servers, Log Server, Access Control Servers, and provide remote access to the managed device and more specifically the SMACC over the data network. Examples of protocols exemplary embodiments of the SMACC could utilize to allow an administrator access to the SMACC include but are not limited to HTTP, HTTPS, Telnet, or Secure Shell.

[00148] The SMACC has the capability to provide management information to a network management station. This could be implemented via standardized protocols such as SNMP or via proprietary protocols. The SMACC can be configured to allow a remote network management station to query the SMACC for information and/or for the SMACC to initiate sending information to the network management station. The SMACC can be configured to send selected information on a periodic basis as well as send selected information when specified threshold conditions are met or error conditions occur. This is referred to as setting traps for information to be sent. Some management protocols also allow operating parameters of the SMACC to be changed by the remote administrator using the protocol. This information will be sent over either the VMI or over a SMACC Interface and will be encrypted using a VPN protocol.

[00149] SMACC access to the management center servers allows the SMACC to access an NTP Server and a log server. The NTP server allows the SMACC to maintain an accurate time source and to use the time source for time stamping log information. The SMACC could also log events both locally and remotely at a log server over the network. Keeping proper log and audit information is a vital part of network management.

[00150] An additional service the SMACC can utilize through the VMI or the SMACC Interfaces is an Access Control Server (ACS). The SMACC will run a client for authentication and can communicate with one or more ACS using standardized protocols such as RADIUS or proprietary protocols. This would allow the SMACC to authenticate and authorize users connecting to the SMACC and determine their privileges on the SMACC. If a protocol such as TACACS+ is being used the SMACC would also be able to provide accounting information to the ACS.

Lenovo
Ex. 1004 - Page 28

[00151] The advantages of using an ACS connected over the network is the user information, passwords and privileges can be configured on one central system rather than having to be configured in every device in the network. For larger networks with a large number of administrators centralized authentication is mandatory. The SMACC would be able to perform authentication and authorization using the connection to an ACS over the VMI or SMACC Interface. Allowing the SMACC to connect to the ACS over either the VMI or a SMACC Interface greatly improves the availability of the ACS to the managed device and the SMACC.

[00152] In an exemplary embodiment, the SMACC might typically report ongoing network status information and alerts to a network management station using a protocol such as SNMP over the VMI. However, there are times when the SMACC will report network status information and alerts over a secondary network such as the PSTN using a SMACC interface. Typically, this would occur when the SMACC has lost connectivity to the Network Management Station via the VMI. One primary condition the SMACC might want to report in this manner would be the failure of all of the managed device interfaces that could provide a path to the VMI to the management center. A secondary network and a SMACC Interface would then be the only way the SMACC could report the outage. Another event might be the loss of power to the site since the in-band connections could well be down due to the loss of power. To send the alert via a secondary network, the SMACC would initiate a connection using a SMACC Interface to the Management Center. Once this connection is established, the SMACC can send the alerts or status information to the Network Management Station over a secondary network not affected by the power outage (such as a PSTN or cellular network).

[00153] As indicated above, one of the events that it might make sense to report over SMACC interface would be the loss of power at the site. The SMACC can be configured to report the loss the main external power source to the power supply. Upon detecting loss of power from the main power supply, the SMACC would be configured to bring up a connection to the management center over a SMACC interface utilizing a secondary network resistant to the affects of a power failure and send the alert to the log server and/or management station. This would provide a Network Management Center quick notification that the underlying cause of a network problem is a power outage at the remote location. This can save significant time during the problem determination process and help get the proper personal involved more quickly.

Lenovo
Ex. 1004 - Page 29

[00154] An exemplary embodiment as depicted in FIG. 2 for providing the SMACC with power for reporting the power outage would include building a power supply with a small UPS and multiple circuits for the power. One circuit would provide power to the SMACC processor and its supporting chips including at least one SMACC Interface. This circuit would be backed up by the UPS. The second circuit would provide power to the rest of the managed device. When power is lost, the UPS would then only have to supply power to the SMACC chips allowing a smaller UPS to be utilized. The SMACC will monitor the power supply for loss of external power and send the alert when that event occurs.

[00155] An additional exemplary embodiment in which there is only one circuit or the UPS backs up both circuits would have the SMACC shutting down the main device when there is a power outage saving power and allowing a smaller UPS to be utilized to enable reporting power outages. Yet another exemplary embodiment would utilize an external UPS as depicted in FIG. 17. The SMACC can be configured to designate a user interface as a UPS monitoring interface. Data from that interface would then be sent to the SMACC and the SMACC would be notified when external power has failed. At that point the SMACC can do a controlled shutdown of the main processor and report the outage over a SMACC interface. Shutting down the main processor right away would reduce power requirements and allow a smaller extern UPS to be utilized. The SMACC could also be configured to forward any other log information or problem determination information. The SMACC could also be configured to keep the SMACC interface active for a specified length of time or as long as sufficient power remained in the UPS

[00156] The SMACC can also be configured to provide notification to the Management Center when power is restored to the site. When power is restored the SMACC can be configured to wait a determined length of time (perhaps on the order of minutes) to give the network device time to boot and the in-band connection time to reestablish. At the end of that time the SMACC will check the VMI. If the VMI is able to access the Management Center via the in-band connection, the SMACC will send the notification of power restoration to the Management Center via the VMI. If the VMI is not up, then the SMACC will establish a connection over a SMACC Interface to report the power restoration.

[00157] An exemplary embodiment of the SMACC that utilizes a POTS connection can monitor the physical connectivity of a telephone line to the SMACC interface that includes an integrated modem and send an alert if the telephone line is disconnected. Access to the SMACC

Lenovo
Ex. 1004 - Page 30

can assist with problem determination and resolution when there is an outage in the network. It might be that the telephone connection to the SMACC interface does not get used very often. It is not unheard of for a telephone line to a modem on a console port to have stopped working for weeks and months before being needed and then discovered to not be functional. When it is needed, such as when there is an outage, it is important to know that the telephone connection will be there and working. Monitoring the connection to the line assists in doing this.

[00158] When a telephone line is in the on-hook state, the line generally carries a voltage. In the USA this is in the vicinity of -48V. To monitor a line that is in the on-hook state it is important to draw very little current if any at all. A FET transistor circuit as depicted in FIG. 15 would be a good candidate for this circuit. A connection from the telephone line would be connected to the gate of the FET transistor. While a high enough negative voltage was maintained on the line, the FET would be in pinch off state and no current would flow between the source and the drain. If the negative voltage was removed from the line and the voltage at the gate went to zero, the FET would allow current to begin flowing between the source and the drain on the transistor. The circuit could detect the flowing current or the circuit could be designed so that the current flow caused a voltage drop at the output to the circuit. This voltage drop could be noted and used to trigger an alert that the line has been disconnected while at the same time drawing very little if any current in the steady state condition. This circuit would provide the most accurate indication of the status of the connectivity of the telephone line when the integrated modem portion of the SMACC interface is in the on hook state.

[00159] In situations where it is desirable not to physically monitor the voltage on the telephone line, a method for periodically monitoring the status of the telephone line is possible as depicted in FIG. 16. The SMACC can be configured to periodically request the SMACC interface to go off-hook and dial a telephone number to test for line status. If no telephone number is provided to dial the SMACC interface can go off-hook and monitor for dial tone. If dial tone is returned the SMACC will consider the line still connected. While this will not provide for continuous monitoring of the connectivity, it will still detect the line being disconnected in a timely manner. If the telephone line is currently in use for a connection, the SMACC will consider the line connected and will not need to do the test. The frequency at which this test is performed can be configured.

Lenovo
Ex. 1004 - Page 31

[00160] For a SMACC interface to be as beneficial as possible, it is important for the access connection to the secondary network to be available for legitimate traffic. In the case of a POTS connection, this access could be taken away by an attack on the local loop connecting the SMACC interface to the PSTN local service provider. If an unauthorized user dials in repeatedly, even though they do not get authorized, they are still tying up the local loop connecting the SMACC interface to the central office. In fact, large ISPs have come under attack by Distributed DoS attacks where illegitimate traffic ties up their modem pools so the legitimate users cannot get access to the ISP.

[00161] A first step is to monitor caller-id and to note the caller-id of connections that failed to authenticate. In some situations, it is reasonable to limit allowed calls to a set of preconfigured origination numbers. In other situations the originating number can be monitored and if a number of failures to authenticate originate from the same number then the SMACC can be configured for fast failure for some length of time. When a number is not in the list of authorized originating numbers or is flagged for fast failure, the SMACC interface will not attempt to authenticate the user, but will perform a fast hang-up as illustrated in FIG. 32. The SMACC will simply answer the call and immediately hang up on that call. The SMACC can also be configured to reject calls that are marked as P (Private) or O for a set length of time when the SMACC interface is under attack.

[00162] Many modifications and other embodiments of the invention will come to mind to one skilled in the art to which this invention pertains having the benefit of the teachings presented in the foregoing descriptions and the associated drawings. Therefore, it is to be understood that the invention is not to be limited to the specific embodiments disclosed and that modifications and other embodiments are intended to be included within the scope of the appended claims. Although specific terms are employed herein, they are used in a generic and descriptive sense only and not for purposes of limitation.

Lenovo
Ex. 1004 - Page 32

THAT WHICH IS CLAIMED:

1. In a computer system having one or more processors, memory, one or more data buses, and one or more user data interfaces, a management apparatus for securing access to one or more device management functions provided by said computer system or said management apparatus and for providing for secure communication of management traffic between said devise management functions and one or more management function communication partners utilizing one or more communication networks, said management apparatus comprising:

(a) one or more management processors for controlling access to said device management functions;

(b) one or more management interfaces for communication with said management processor, said management interfaces operatively coupled to said management processor and capable of being operatively coupled to one or more of said communication networks; and

(c) one or more operative couplings between said management processor and one or more of said data buses;

wherein access to said device management functions and communication of management traffic between said device management functions and said management function communication partners utilizes one or more of said management interfaces and said management processor.

2. The management apparatus of claim 1, wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of remote login, authentication, device configuration, setting of the device clock, updating device software, and patching device software.

3. The management apparatus of claim 1, wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of management apparatus login, management apparatus configuration, updating management apparatus software, patching management apparatus software.

Lenovo
Ex. 1004 - Page 33

4. The management apparatus of claim 3, wherein said remote management activities for management apparatus configuration are selected from the group consisting of configuration of access controls, configuration of filtering, configuration of said management interface parameters, configuration of network parameters, and configuration of parameters for network services.

5. The management apparatus of claim 1, wherein said management function communication partners are selected from the group consisting of network services and administrators.

6. The management apparatus of claim 5, wherein one or more of said network services are selected from the group consisting of authentication and authorization services, domain name services, logging services, network time services, trap services, and polling services.

7. The management apparatus of claim 1, wherein a portion of said management traffic comprises communication protocols selected from the group consisting of Simple Network Management Protocol, Hypertext Transfer Protocol, Hypertext Transfer Protocol over Secure Socket Layer, Network Time Protocol, Telnet, Secure Shell, Domain Name System, File Transfer Protocol, Trivial File Transfer Protocol, Syslog, RADIUS, TACACS+, Lightweight Directory Access Protocol (LDAP), and eXtensible Markup Language (XML).

8. The management apparatus of claim 1, wherein a portion of said management traffic comprises proprietary communication protocols.

9. The management apparatus of claim 1, wherein one or more of said data buses are selected from the group consisting of CPU bus and System bus.

10. The management apparatus of claim 1, wherein one or more of said device management functions utilize one or more of said management processors.

Lenovo
Ex. 1004 - Page 34

11. The management apparatus of claim 1, wherein one or more of said device management functions utilize one or more of said processors of said computer system.

12. The management apparatus of claim 1, wherein said management apparatus further comprises one or more types of apparatus memory.

13. The management apparatus of claim 12, wherein one or more of said types of apparatus memory are selected from the group consisting of Flash memory, Random Access Memory (RAM), and Non-volatile Random Access Memory (NVRAM).

14. The management apparatus of claim 12, wherein said management processor is implemented on a chip that also provides some portion of said apparatus memory.

15. The management apparatus of claim 1, wherein said management apparatus utilizes one or more types of said memory of said computer system.

16. The management apparatus of claim 15, wherein one or more of said types of said memory of said computer system are selected from the group consisting of Flash memory, Random Access Memory (RAM), Non-volatile Random Access Memory (NVRAM), and Boot Read Only Memory (Boot ROM).

17. The management apparatus of claim 1, further comprising:
one or more network enabled interfaces,
wherein said network enabled interfaces are utilized as said management interfaces.

18. The management apparatus of claim 17, wherein one or more of said network enabled interfaces utilizes virtual private network technology to separate and secure management traffic.

19. The management apparatus of claim 1, further comprising:
a management apparatus console port,

Lenovo
Ex. 1004 - Page 35

wherein said management apparatus console port provides terminal access to command and control functions of said management apparatus.

20. The management apparatus of claim 1, wherein one or more of said management interfaces are virtual management interfaces and further wherein said virtual management interfaces utilize one or more of said user data interfaces for communication of said management traffic and further wherein said virtual management interfaces logically separate said management traffic and user data during communication of said management traffic.

21. The management apparatus of claim 20, wherein one or more of said virtual management interfaces utilizes virtual private network technology to separate and secure management traffic.

22. A method of handling communications in a computer system having one or more processors, memory, one or more data buses, one or more user data interfaces, and one or more management apparatus wherein said computer system provides one or more device management functions to support remote management activities of said computer system generating management traffic between said device management functions and management function communication partners and further wherein said management apparatus comprising one or more management processor and one or more management interfaces and further wherein said management apparatus is operatively coupled to one or more of said data buses, the method comprising:

(a) handling said management traffic generated by said device management functions by:

(i) routing said management traffic generated by said device management functions from one or more of said processors of said computer system to one or more of said management processors;

(ii) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(iii) forwarding said management traffic that is acceptable to one or more of said management function communication partners using one or more of said management interfaces; and

Lenovo
Ex. 1004 - Page 36

(b) handling said management traffic generated by management function communication partners by:

(i) receiving said management traffic generated by said management function communication partners over one or more of said management interfaces;

(ii) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(iii) forwarding said management traffic that is acceptable to one or more of said processors of said computer system for processing;

23. A method of handling communications in a computer system having one or more processors, memory, one or more data buses, one or more user data interfaces, and one or more management apparatus wherein said management apparatus provides one or more device management functions to support remote management activities of said computer system generating management traffic between said device management functions and management function communication partners and further wherein said management apparatus comprising one or more management processor and one or more management interfaces and further wherein said management apparatus is operatively coupled to one or more of said data buses, the method comprising:

(a) handling said management traffic generated by said device management functions by:

(i) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(ii) forwarding said management traffic that is acceptable to one or more of said management function communication partners using one or more of said management interfaces; and

(b) handling said management traffic generated by management function communication partners by:

(i) receiving said management traffic generated by said management function communication partners over one or more of said management interfaces;

(ii) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

Lenovo
Ex. 1004 - Page 37

(iii) processing said management traffic that is acceptable by one or more of said management processors.

Lenovo
Ex. 1004 - Page 38

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

ABSTRACT OF THE DISCLOSURE

A computer network management apparatus and method for remotely managing a networked device. The apparatus and method includes a management processor which is in direct communication with the networked device. The apparatus and method provides access for remotely and securely managing a networked device. The apparatus and method further separates management communications from user communications to ensure the security of the management communications. The apparatus and method further includes network and power monitoring and notification systems. The apparatus and method further provides authentication and authorization capabilities for security purposes.

Lenovo
Ex. 1004 - Page 39

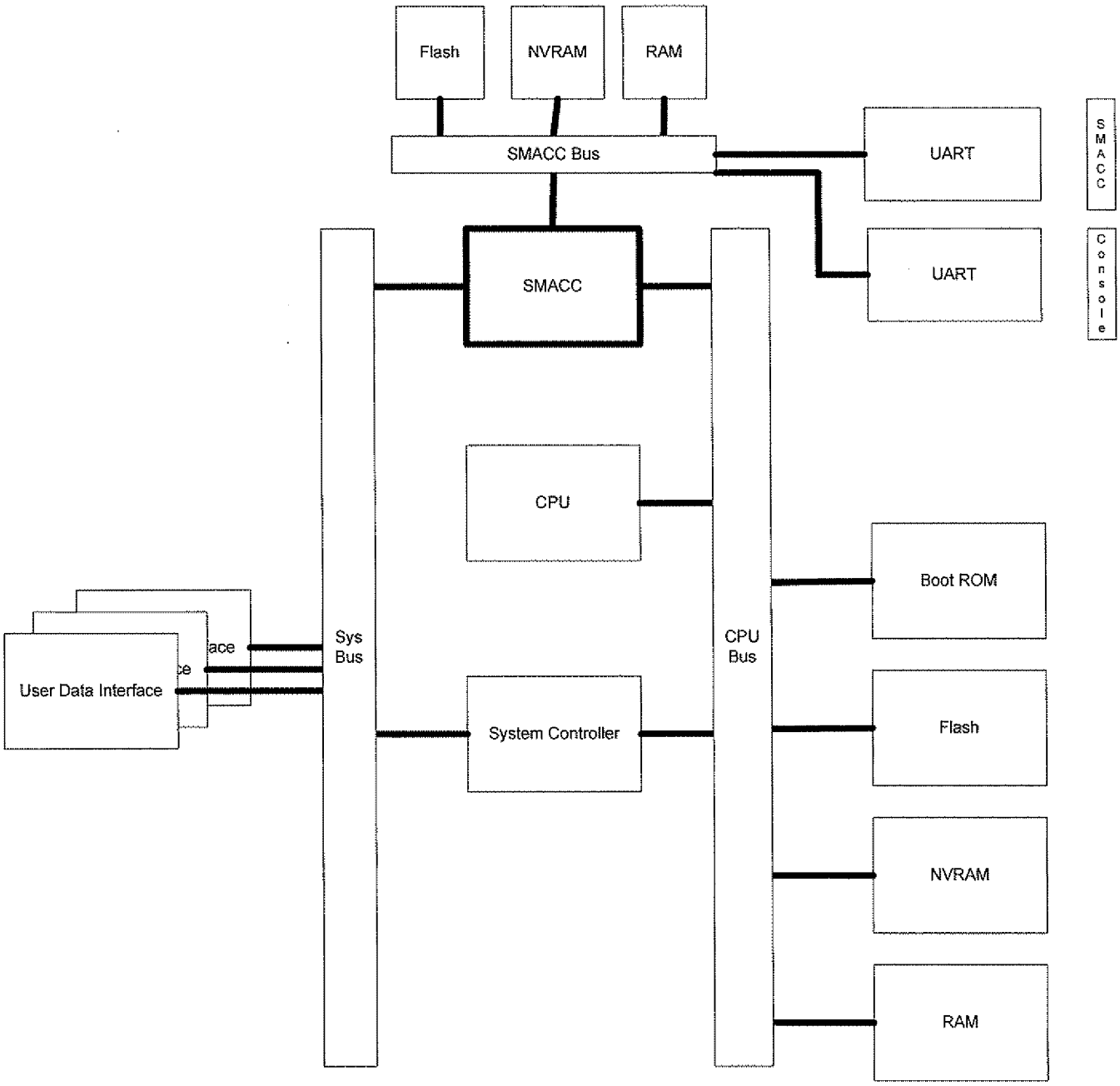

Flash
NVRAM
RAM
SMACC Bus
UART
SMACC
UART
SMACC
Console
CPU
Boot ROM
User Data Interface
Sys Bus
CPU Bus
System Controller
Flash
NVRAM
RAM

Fig. 1

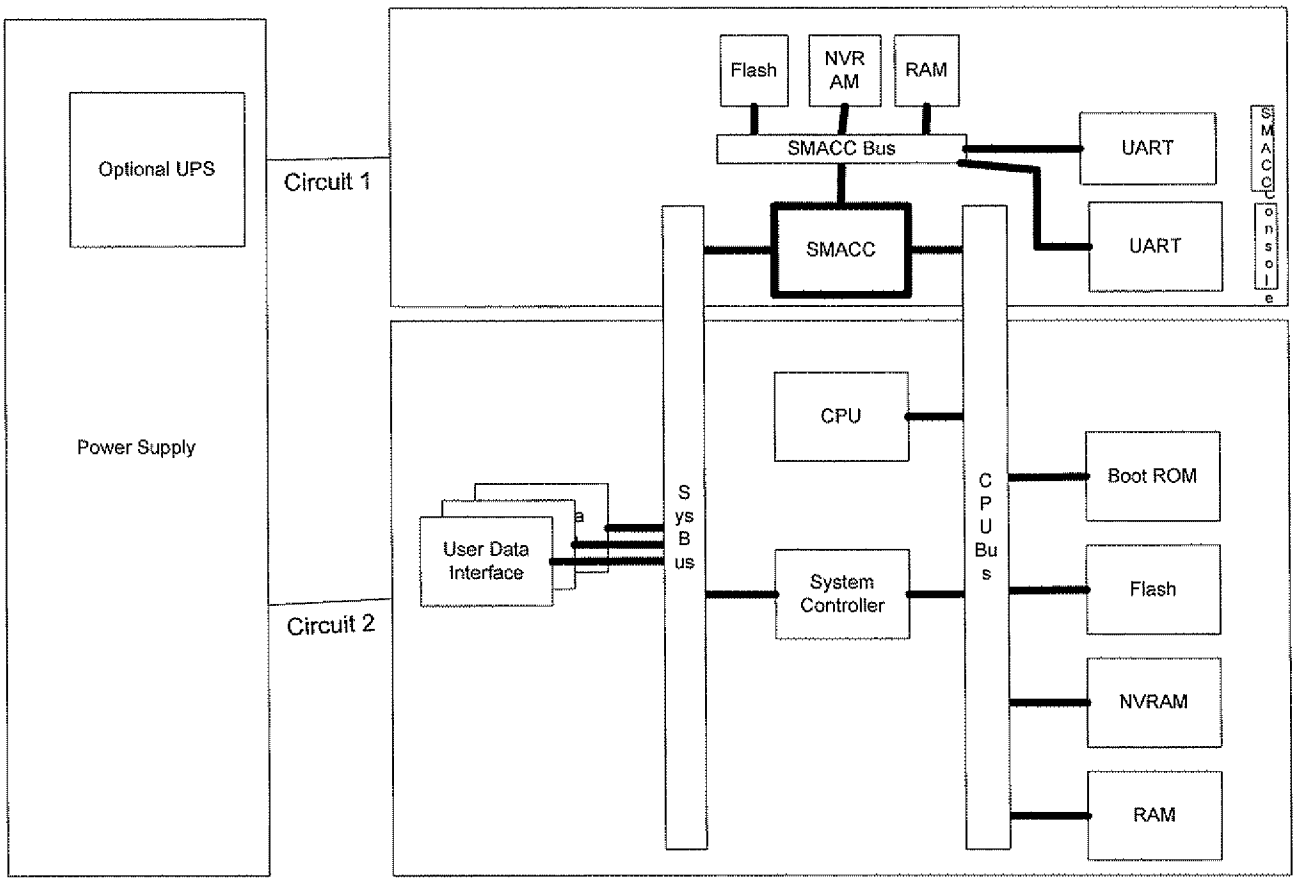

Optional UPS
Power Supply
Circuit 1
Circuit 2
Flash
NVR AM
RAM
SMACC Bus
SMACC
UART
UART
SMACC Console
CPU
User Data Interface
Sys Bus
System Controller
CPU Bus
Boot ROM
Flash
NVRAM
RAM

Fig. 2

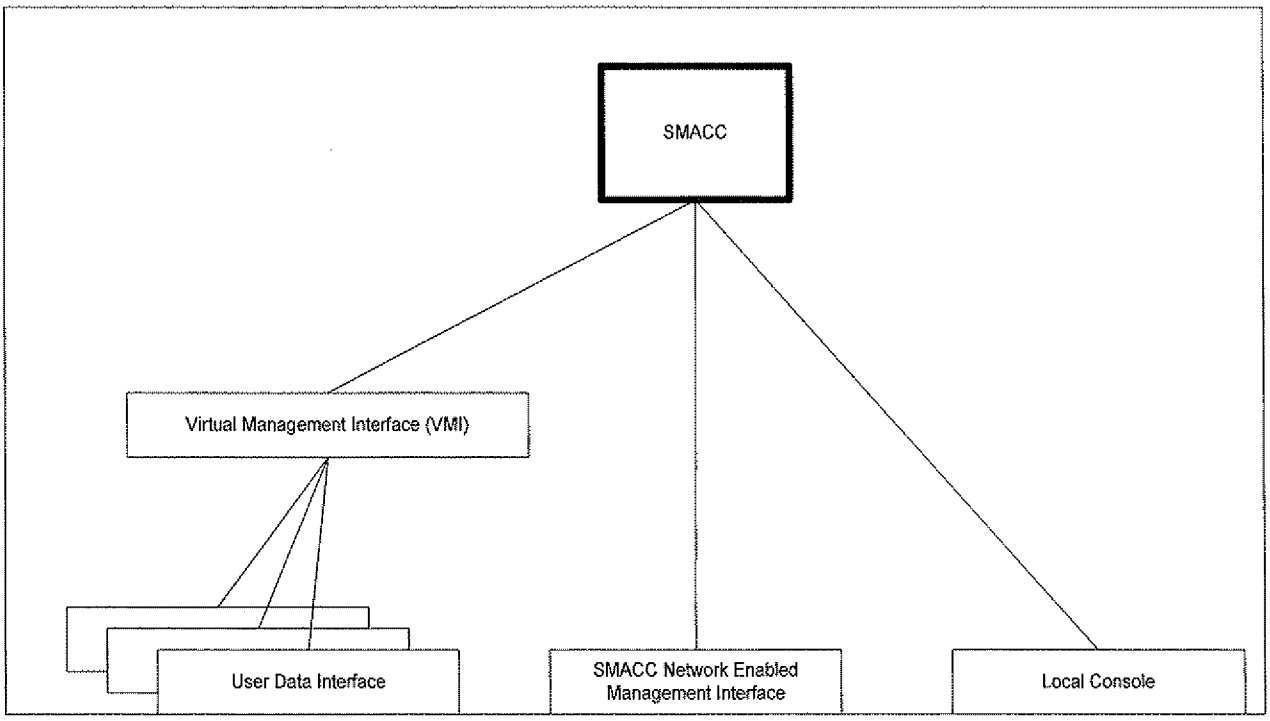

SMACC
Virtual Management Interface (VMI)
User Data Interface
SMACC Network Enabled Management Interface
Local Console

Fig. 3

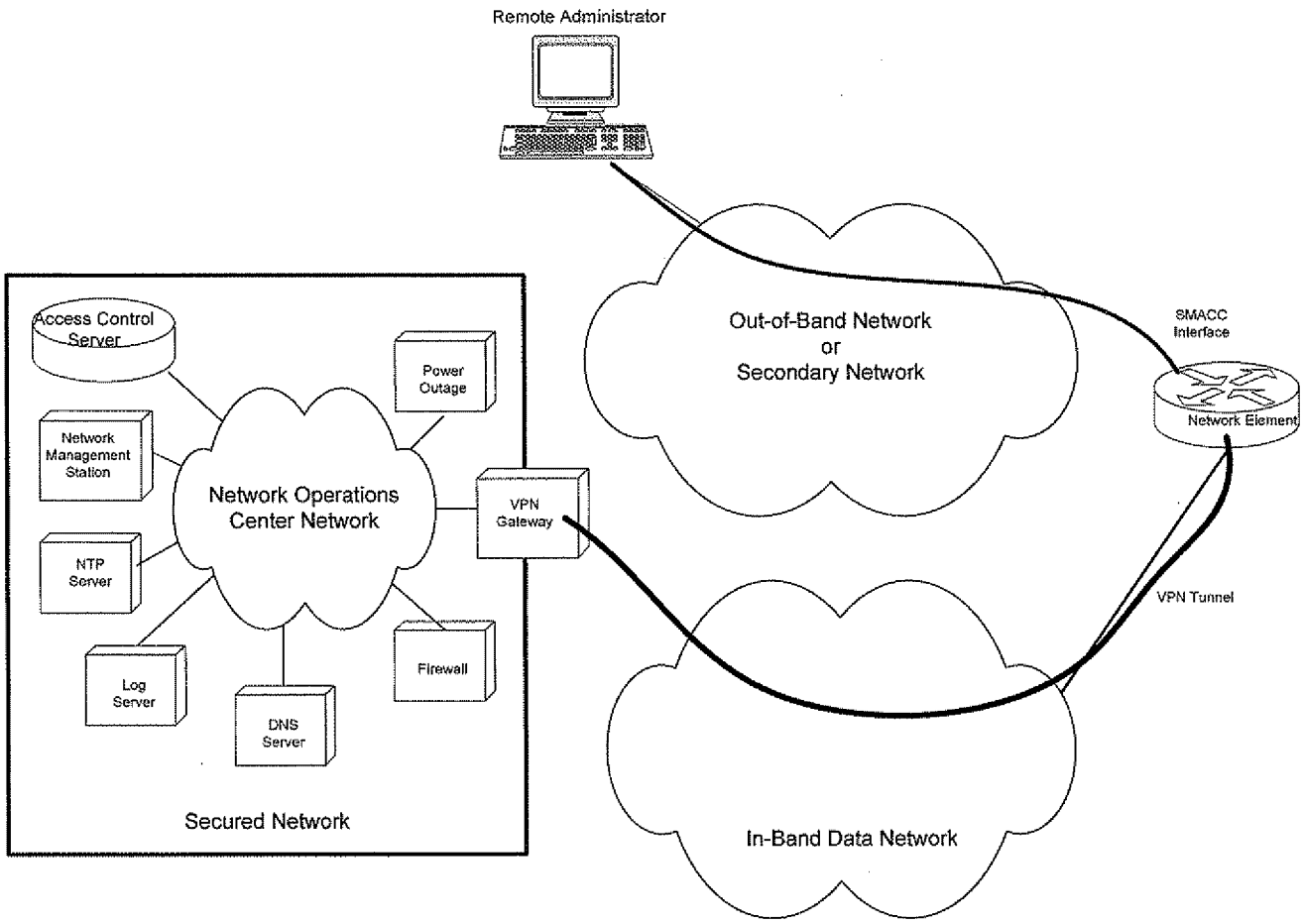

Remote Administrator
Out-of-Band Network
or
Secondary Network
SMACC
Interface
Network Element
Access Control
Server
Power
Outage
Network
Management
Station
Network Operations
Center Network
VPN
Gateway
NTP
Server
VPN Tunnel
Log
Server
DNS
Server
Firewall
Secured Network
In-Band Data Network

Fig. 4

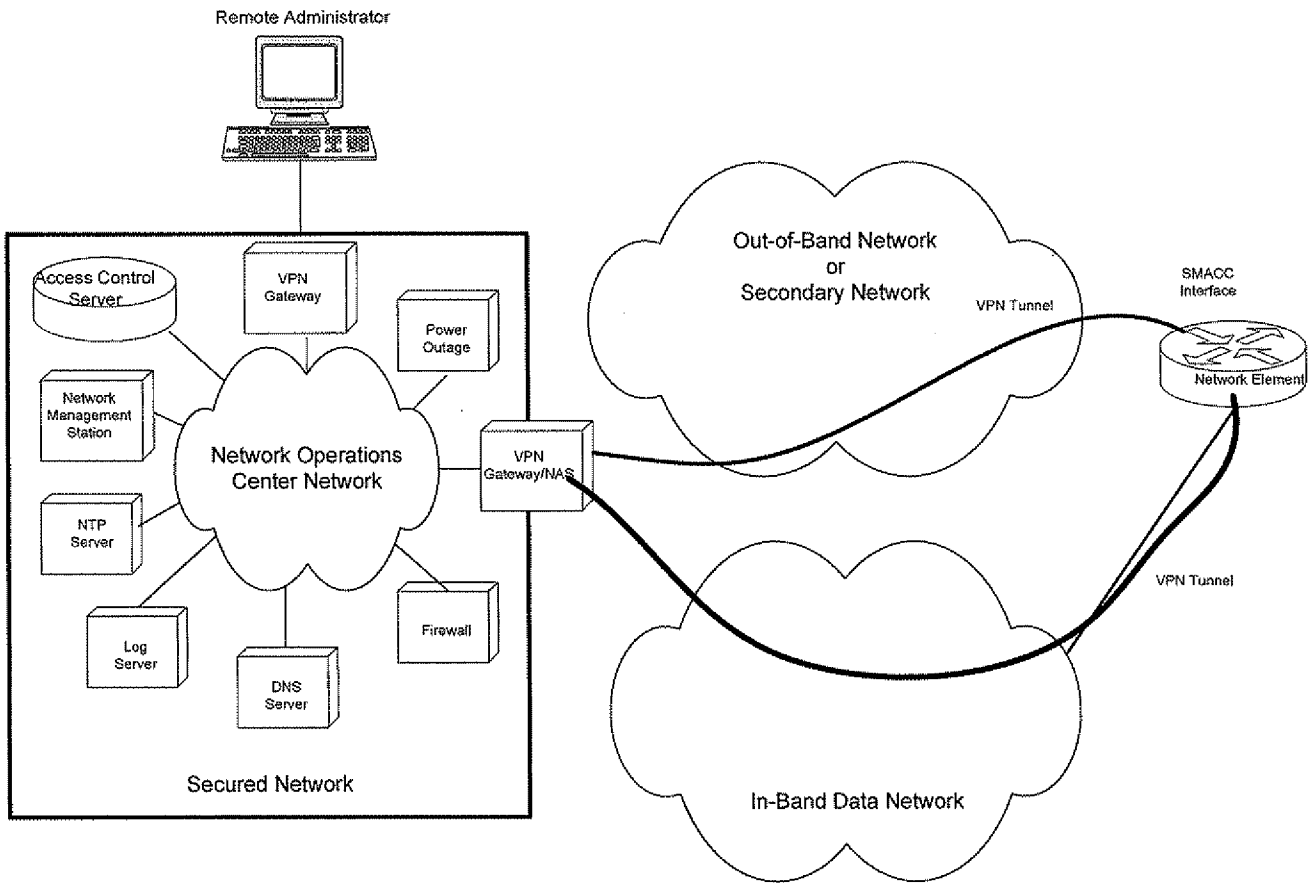

Remote Administrator
Access Control Server
VPN Gateway
Power Outage
Network Management Station
Network Operations Center Network
VPN Gateway/NAS
NTP Server
Log Server
DNS Server
Firewall
Secured Network
Out-of-Band Network or Secondary Network
VPN Tunnel
SMACC Interface
Network Element
VPN Tunnel
In-Band Data Network

Fig. 5

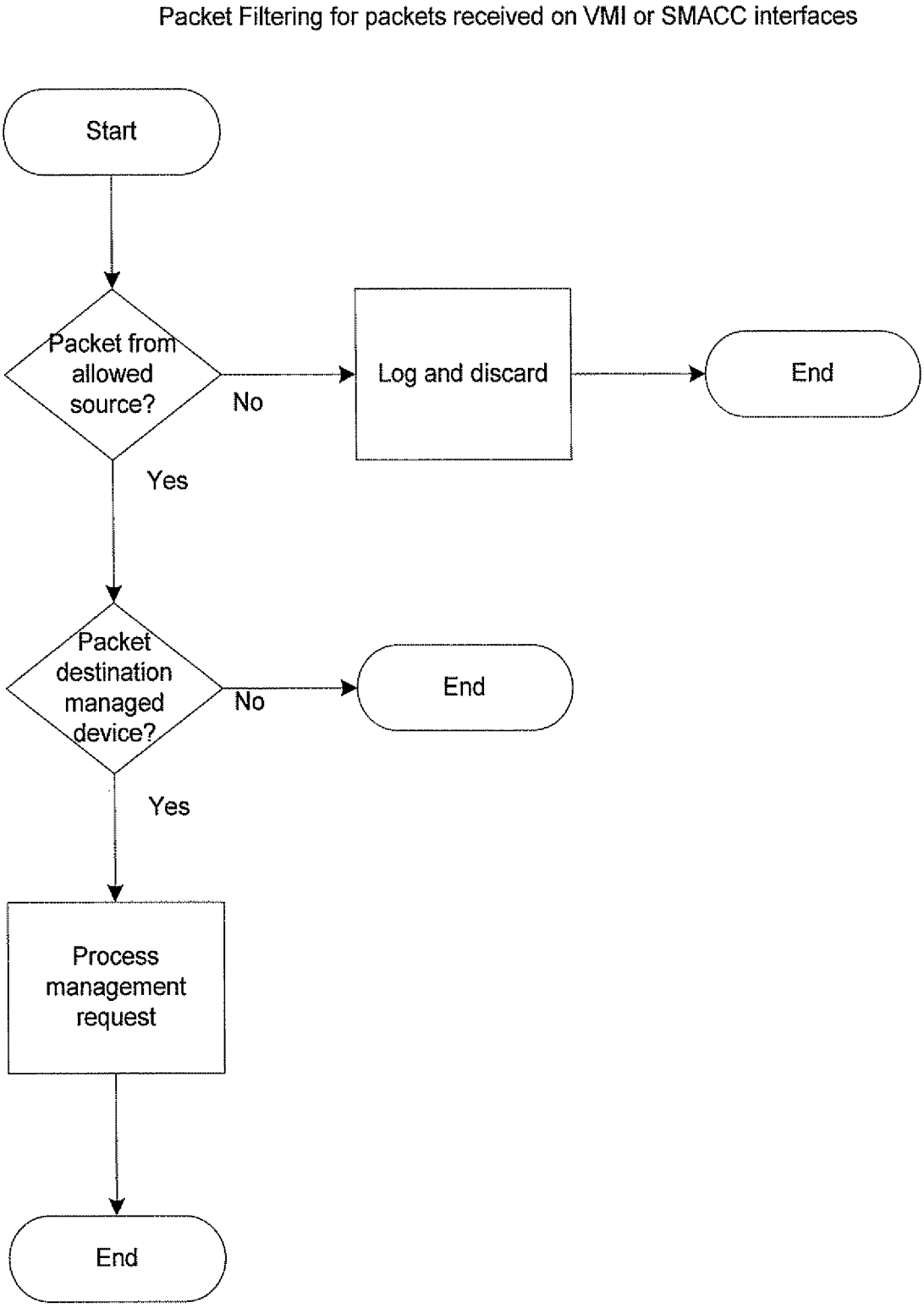

Packet Filtering for packets received on VMI or SMACC interfaces
Start
Packet from allowed source?
No
Log and discard
End
Yes
Packet destination managed device?
No
End
Yes
Process management request
End

Fig. 6

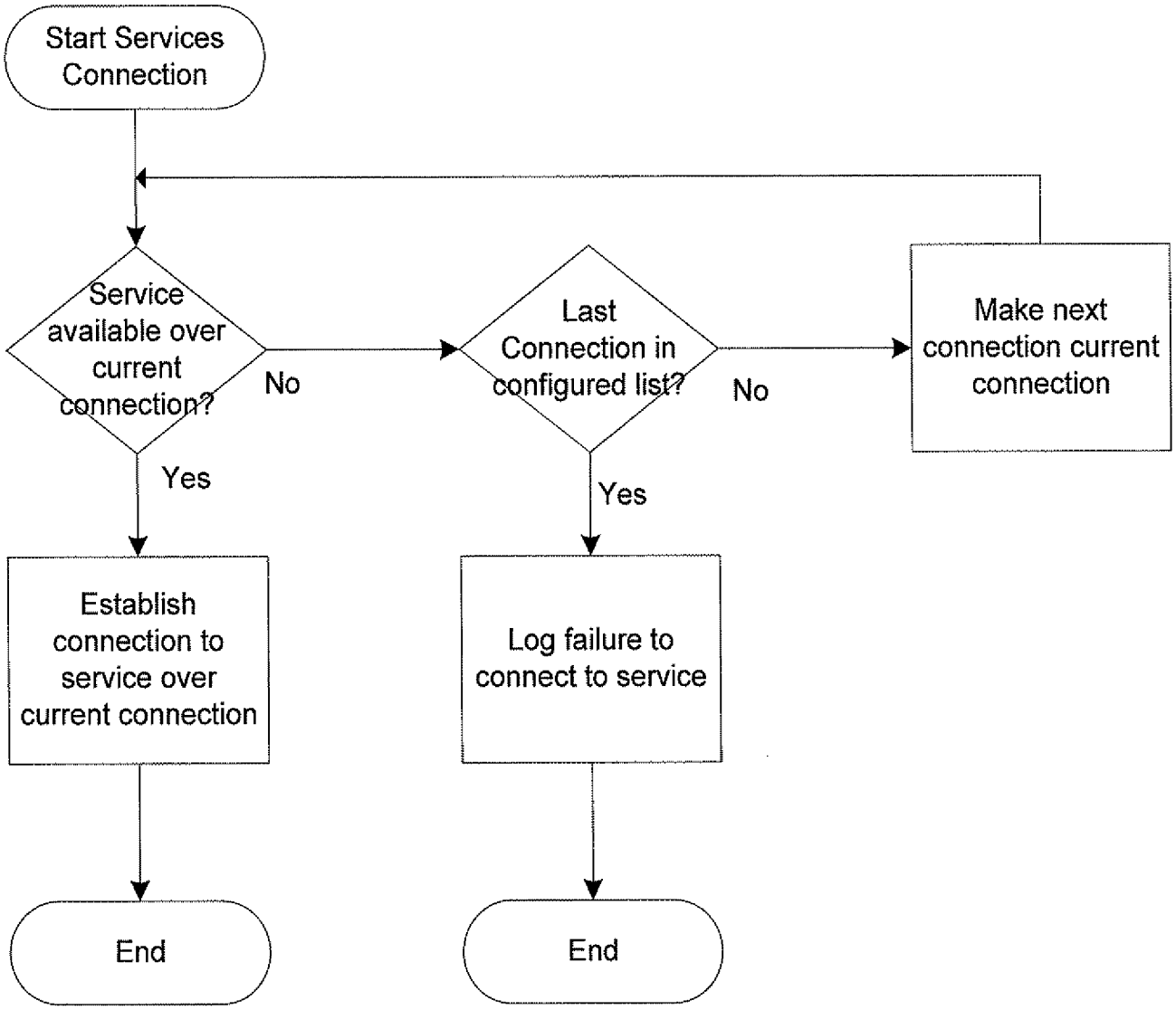

Start Services Connection
Service available over current connection?
No
Last Connection in configured list?
No
Make next connection current connection
Yes
Yes
Establish connection to service over current connection
Log failure to connect to service
End
End

Fig. 7

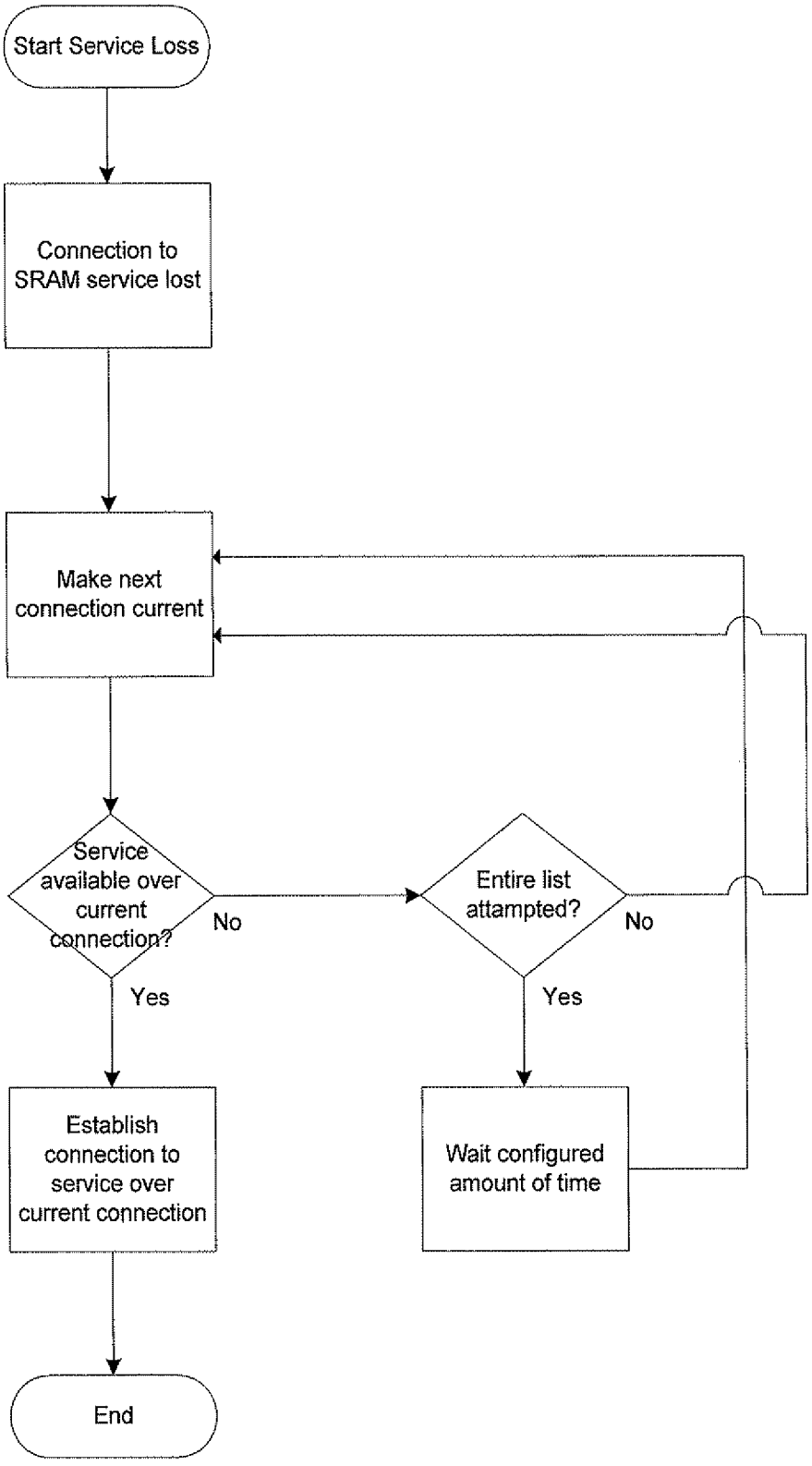

Start Service Loss
Connection to SRAM service lost
Make next connection current
Service available over current connection?
No
Yes
Entire list attampted?
No
Yes
Establish connection to service over current connection
Wait configured amount of time
End

Fig. 8

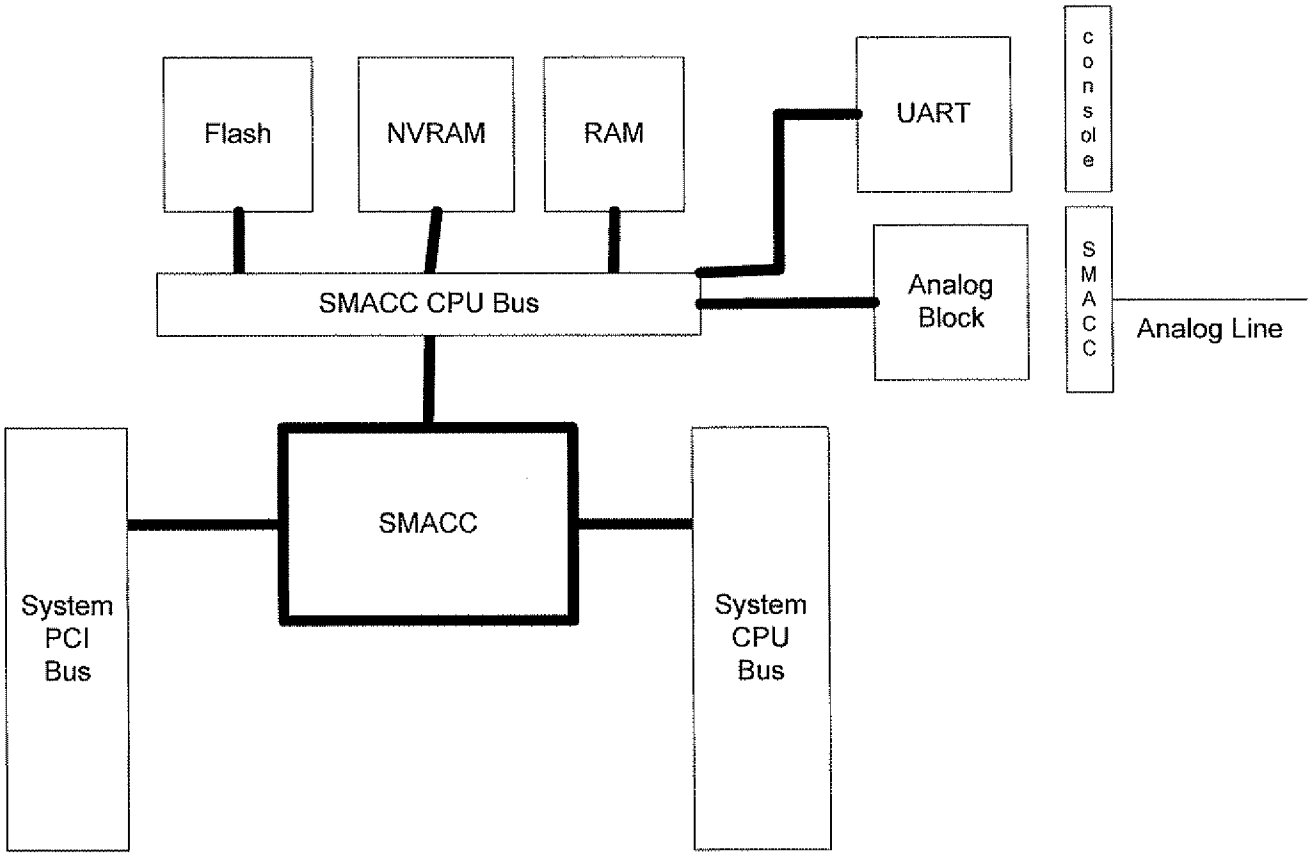

Flash
NVRAM
RAM
UART
console
SMACC CPU Bus
Analog Block
SMACC
Analog Line
SMACC
System PCI Bus
System CPU Bus

Fig. 9

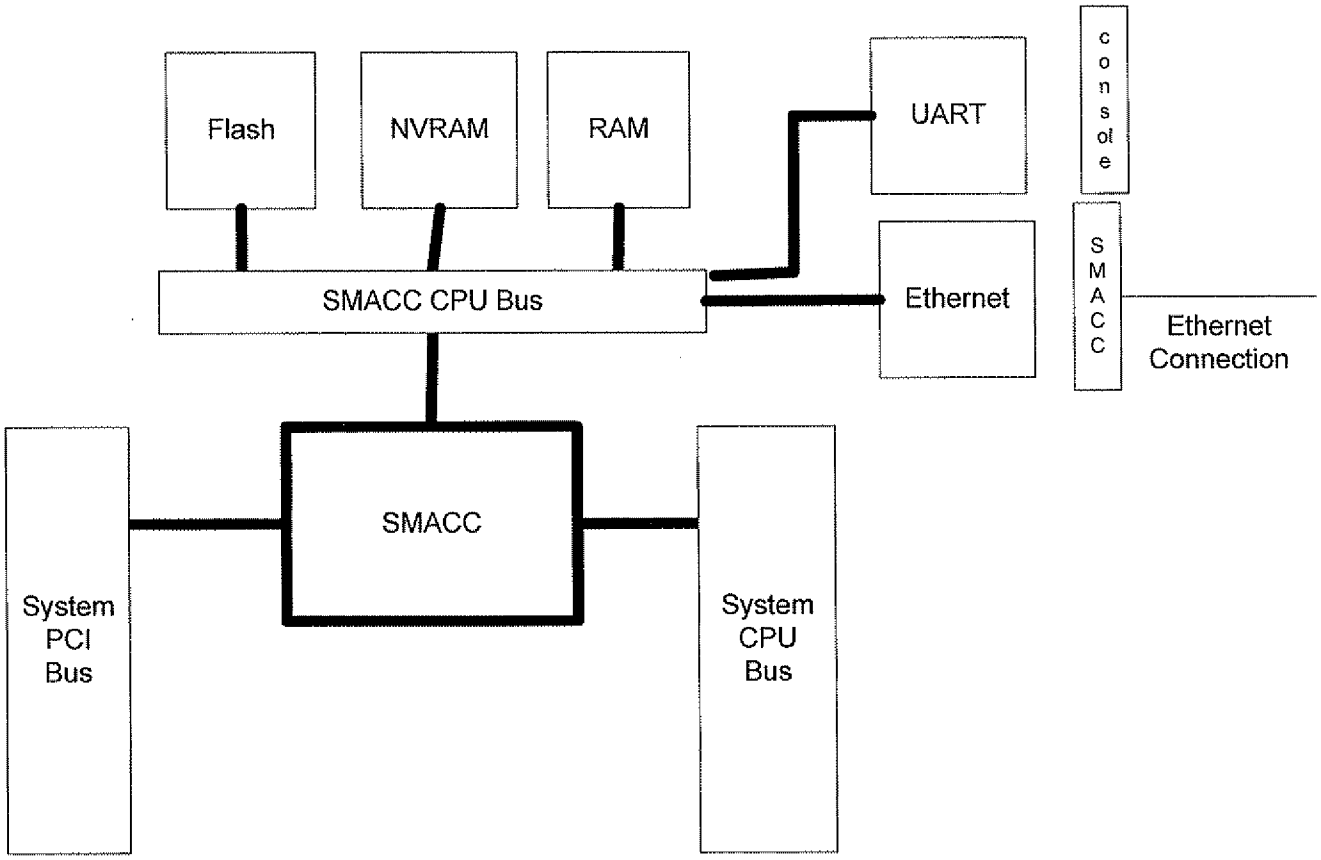

Flash
NVRAM
RAM
UART
console
SMACC CPU Bus
Ethernet
SMACC
Ethernet Connection
SMACC
System PCI Bus
System CPU Bus

Fig. 10

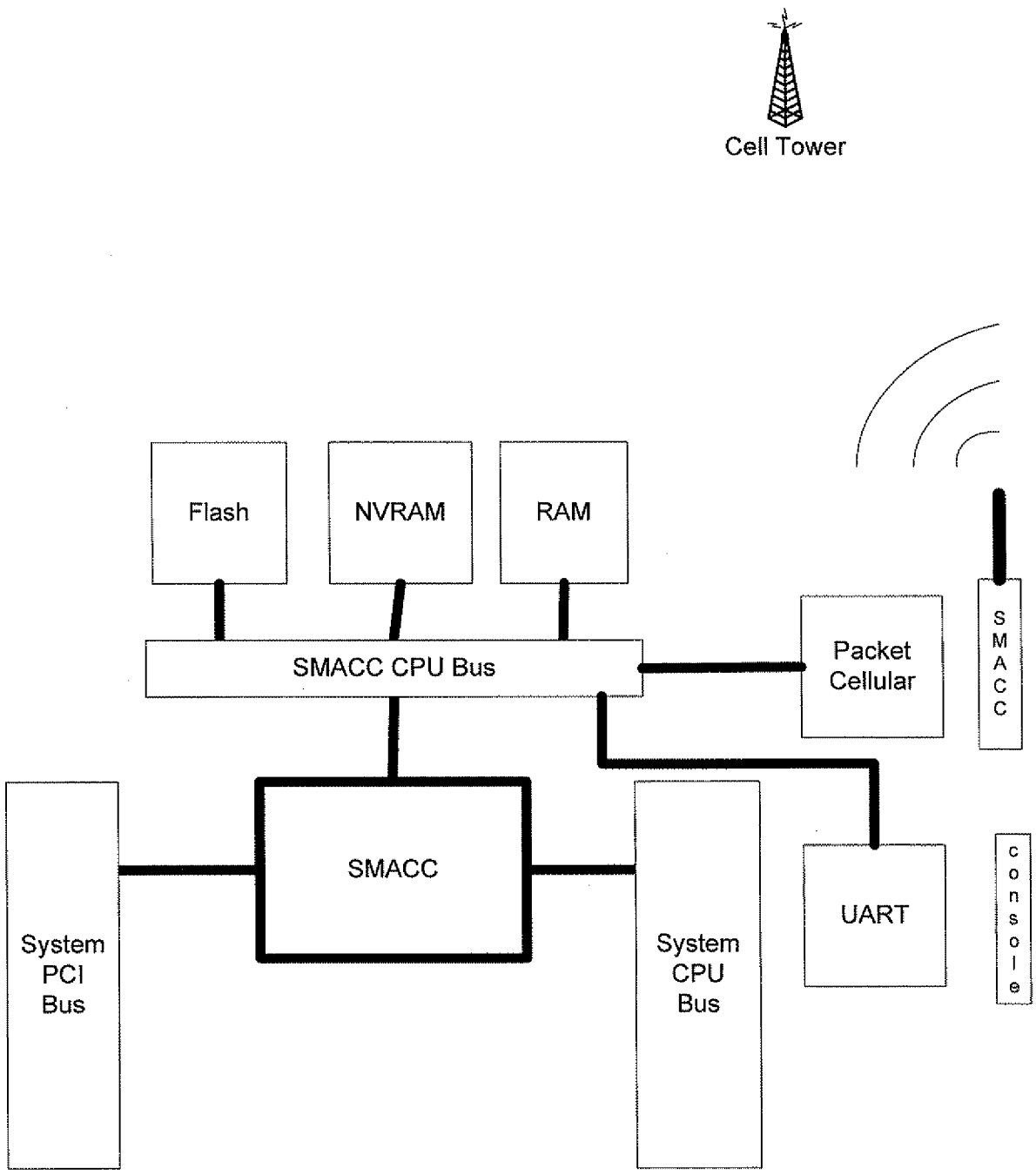

Cell Tower
Flash
NVRAM
RAM
SMACC CPU Bus
Packet Cellular
SMACC
SMACC
System PCI Bus
System CPU Bus
UART
console

Fig. 11

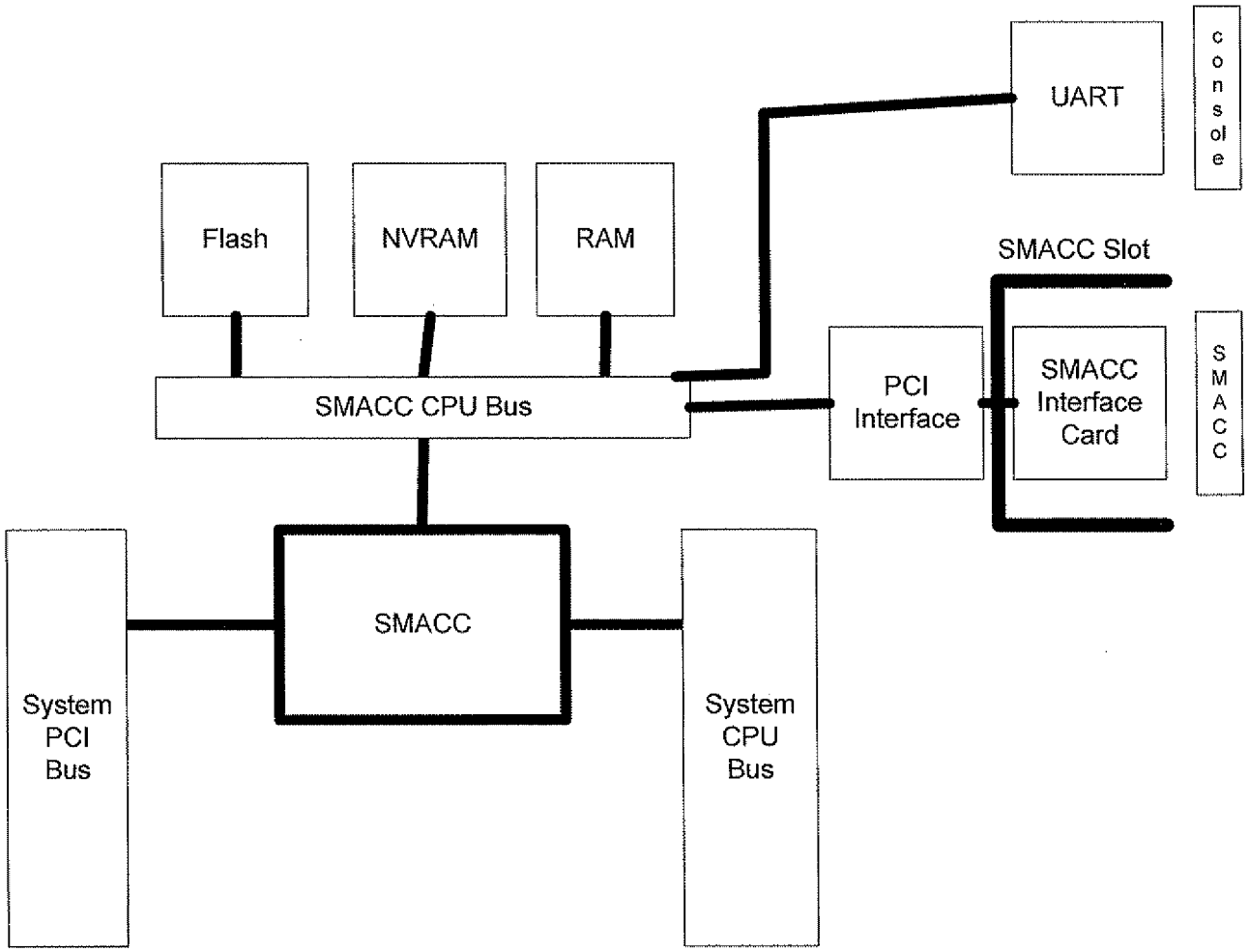

UART
console
Flash
NVRAM
RAM
SMACC Slot
SMACC CPU Bus
PCI Interface
SMACC Interface Card
SMACC
SMACC
System PCI Bus
SMACC
System CPU Bus

Fig. 12

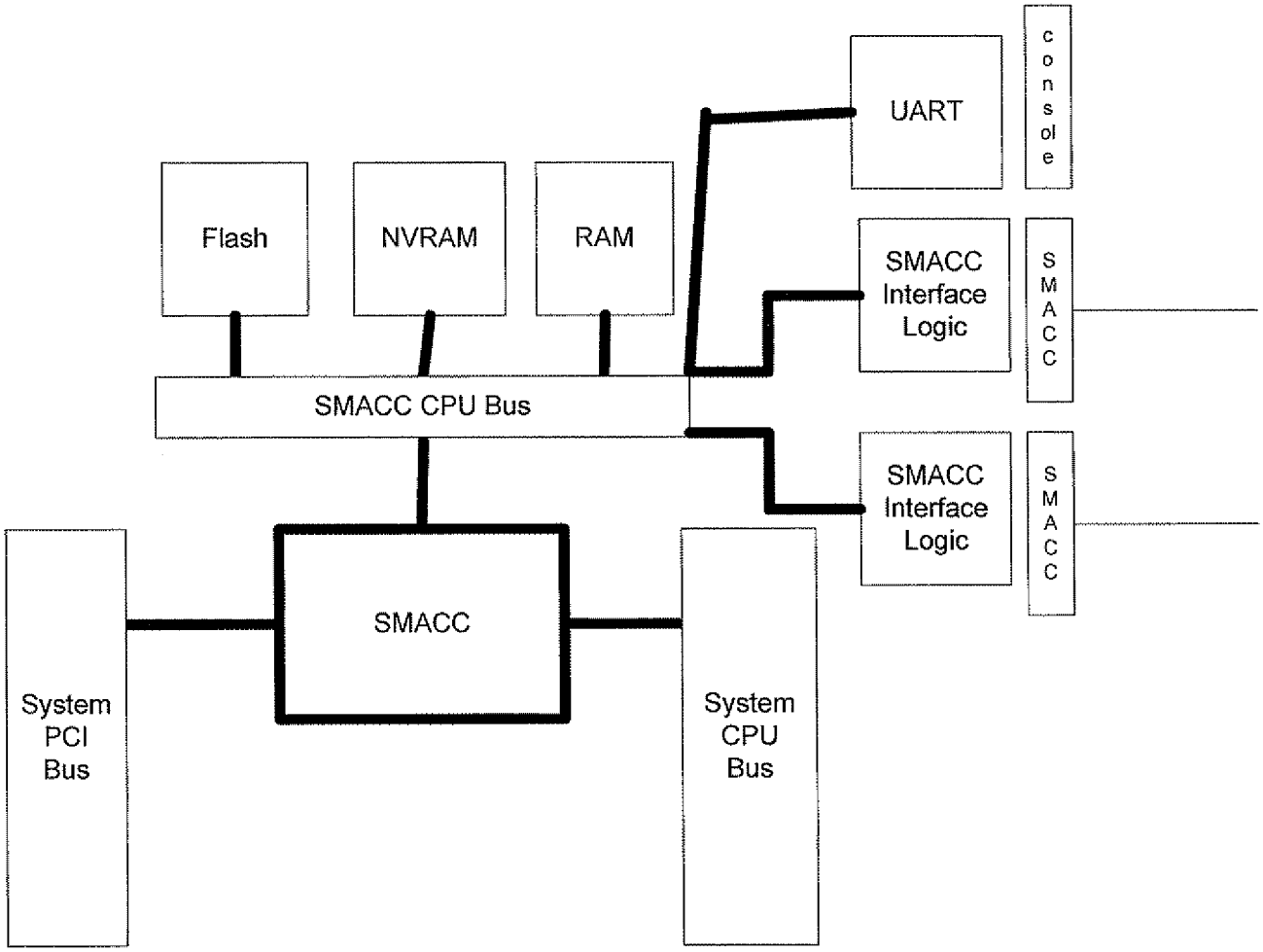

UART
console
Flash
NVRAM
RAM
SMACC Interface Logic
SMACC
SMACC CPU Bus
SMACC Interface Logic
SMACC
System PCI Bus
SMACC
System CPU Bus

Fig. 13

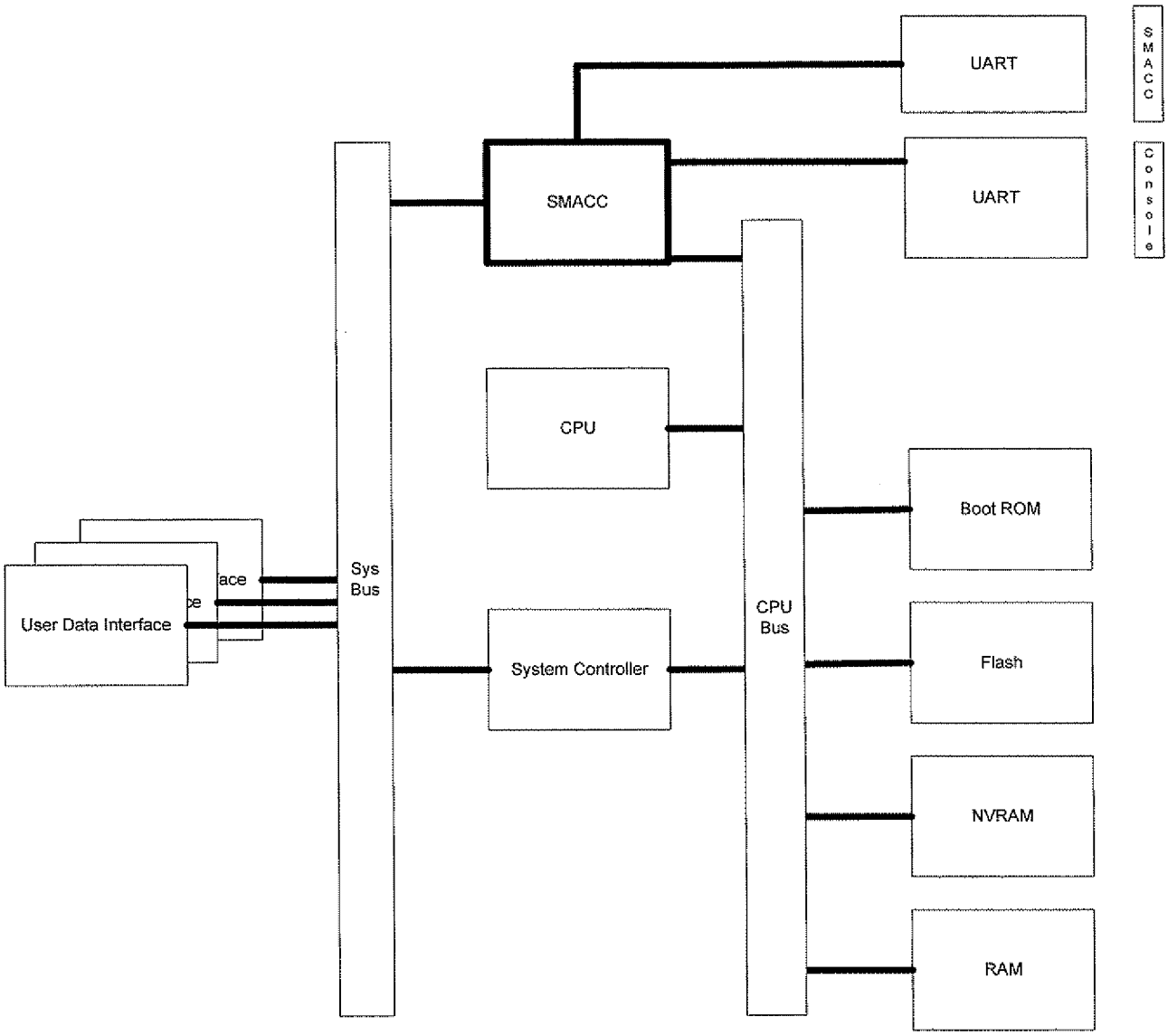

UART
SMACC
SMACC
UART
Console
CPU
Boot ROM
User Data Interface
Sys Bus
CPU Bus
System Controller
Flash
NVRAM
RAM

Fig. 14

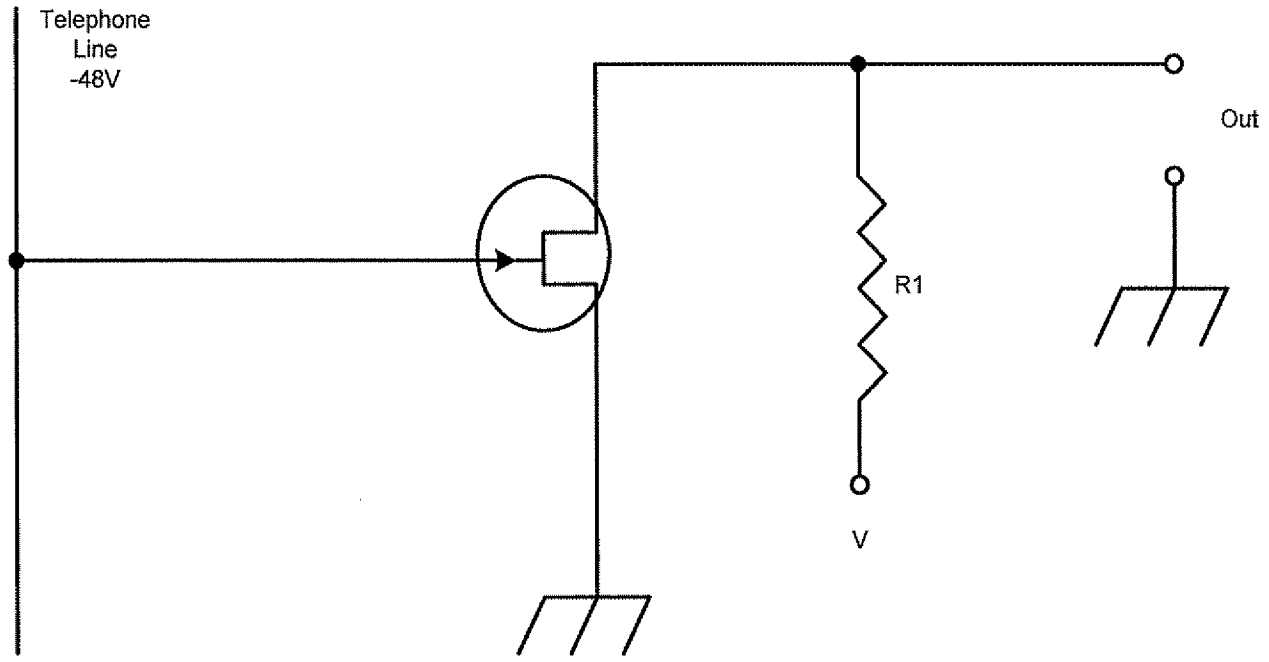


Fig. 15

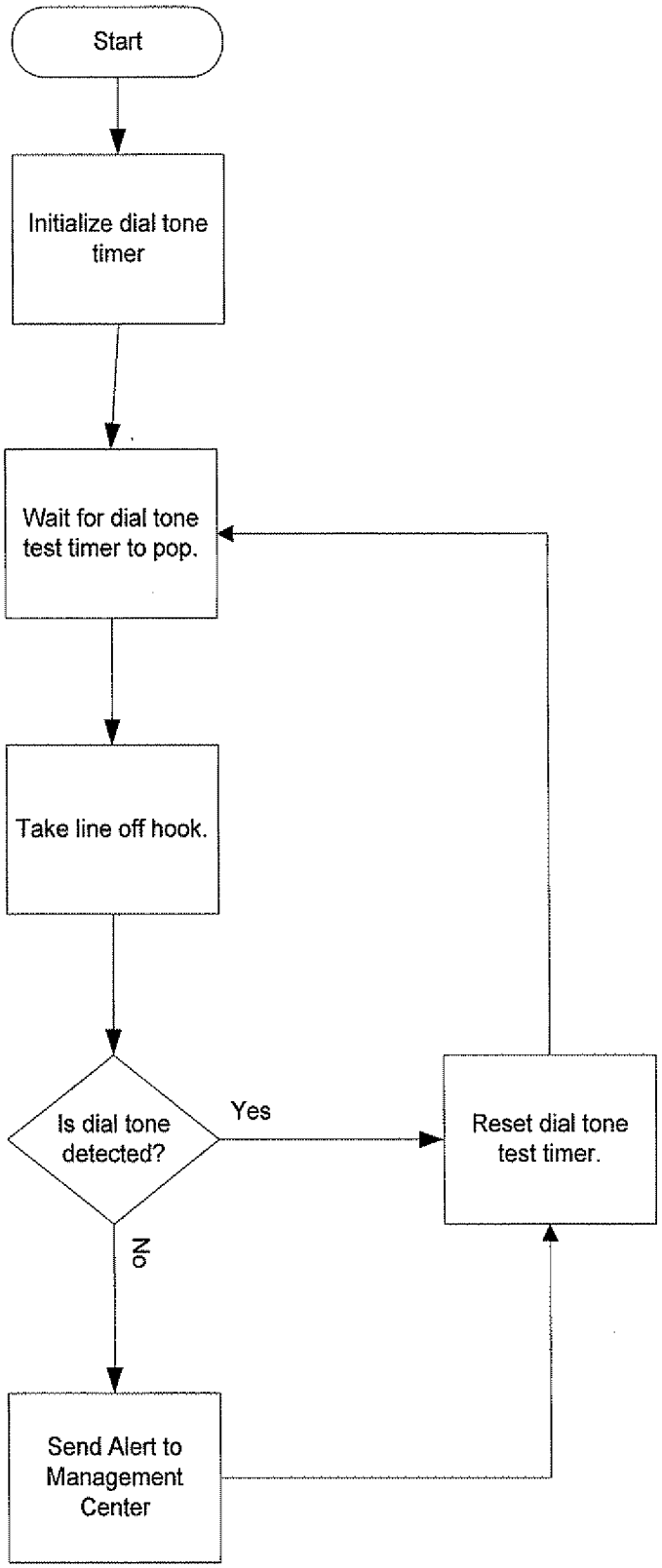

Start
Initialize dial tone timer
Wait for dial tone test timer to pop.
Take line off hook.
Is dial tone detected?
Yes
No
Reset dial tone test timer.
Send Alert to Management Center

Fig. 16

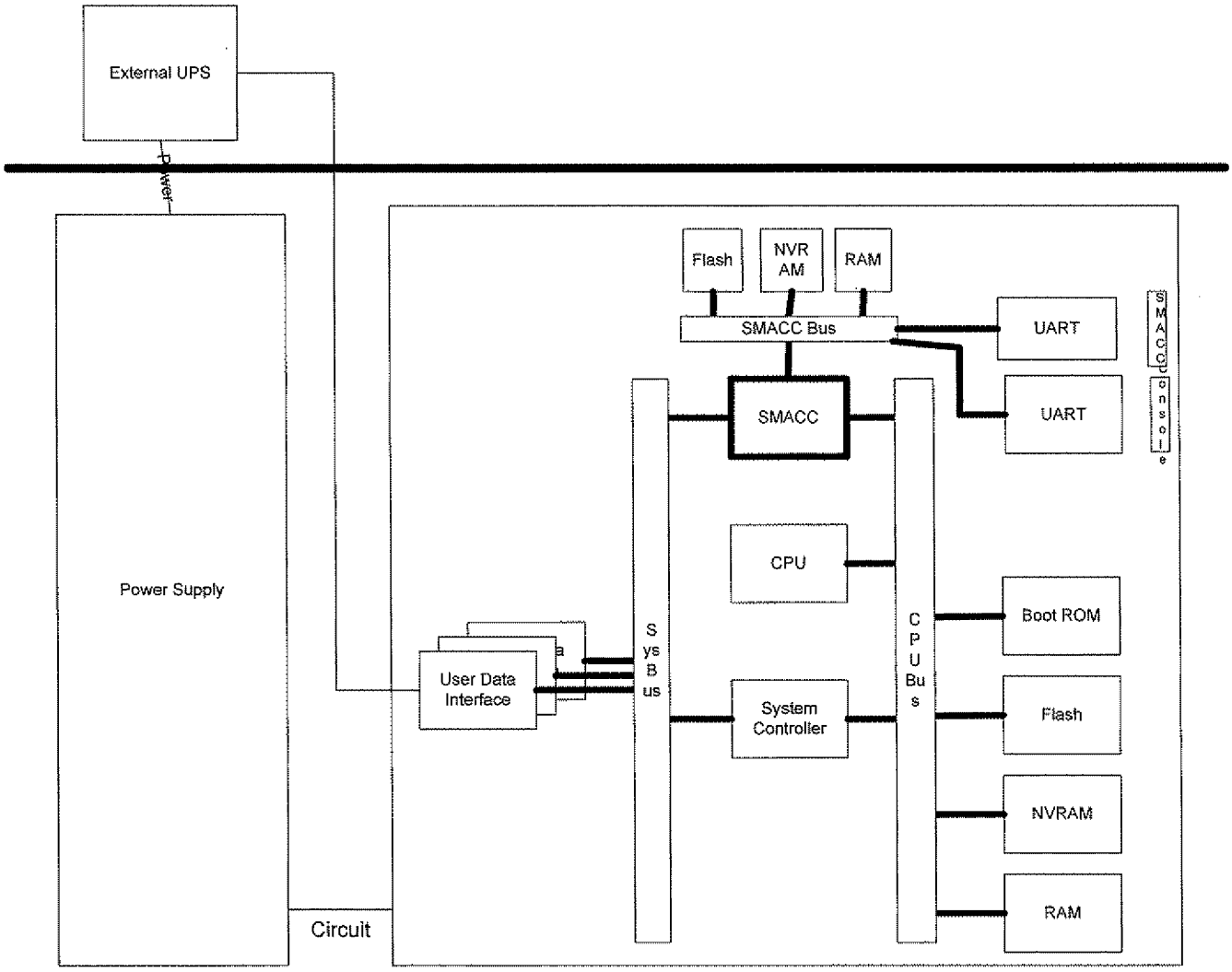

External UPS
Power
Power Supply
Circuit
Flash
NVR AM
RAM
SMACC Bus
UART
UART
SMACC
CPU
User Data Interface
Sys Bus
System Controller
CPU Bus
Boot ROM
Flash
NVRAM
RAM

Fig. 17

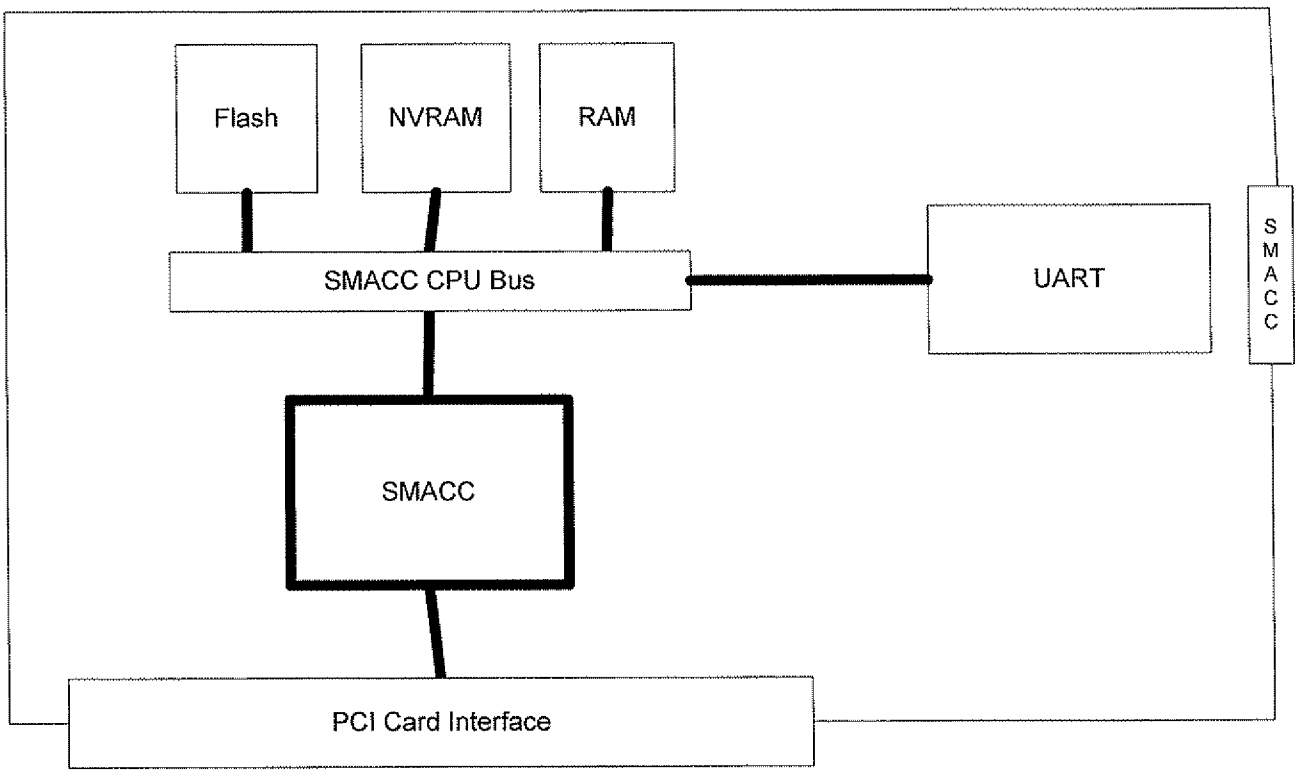

Flash
NVRAM
RAM
SMACC CPU Bus
UART
S
M
A
C
C
SMACC
PCI Card Interface

Fig. 18

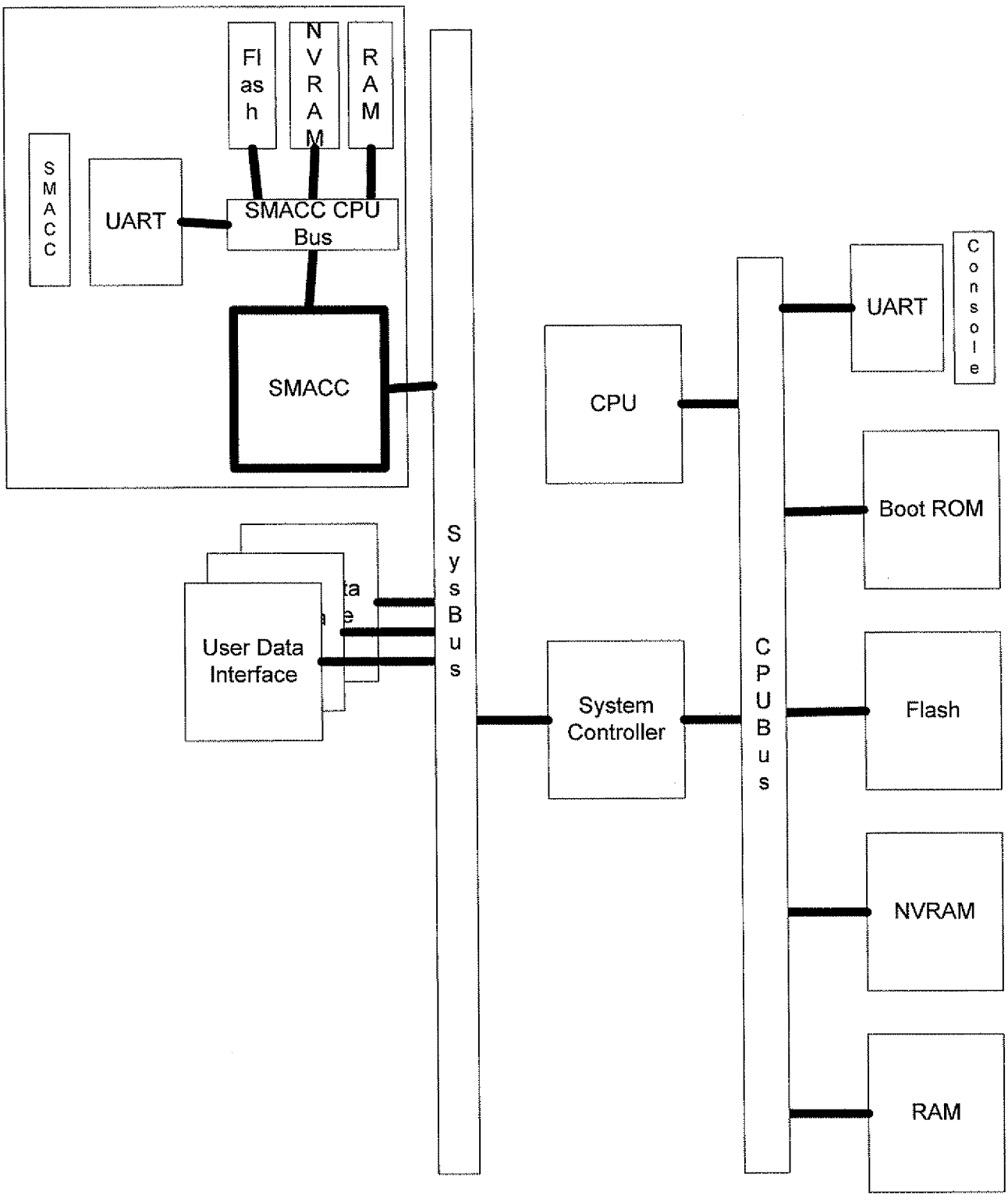

Flash
NVRAM
RAM
SMACC
UART
SMACC CPU Bus
SMACC
User Data Interface
SysBus
CPU
UART
Console
Boot ROM
System Controller
CPUBus
Flash
NVRAM
RAM

Fig. 19

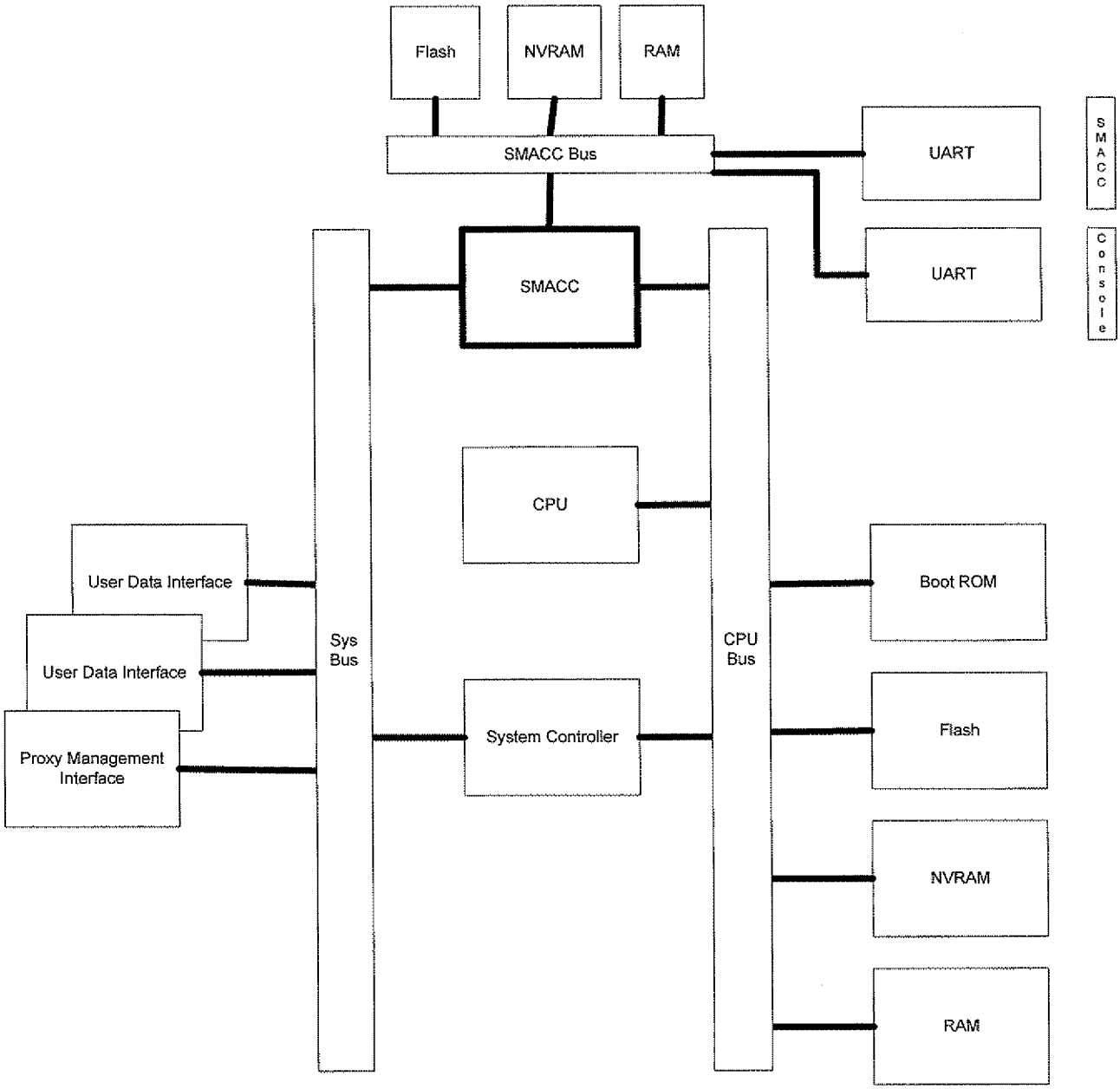

Flash
NVRAM
RAM
SMACC Bus
UART
SMACC
UART
SMACC
Console
CPU
User Data Interface
User Data Interface
Proxy Management Interface
Sys Bus
System Controller
CPU Bus
Boot ROM
Flash
NVRAM
RAM

Fig. 20

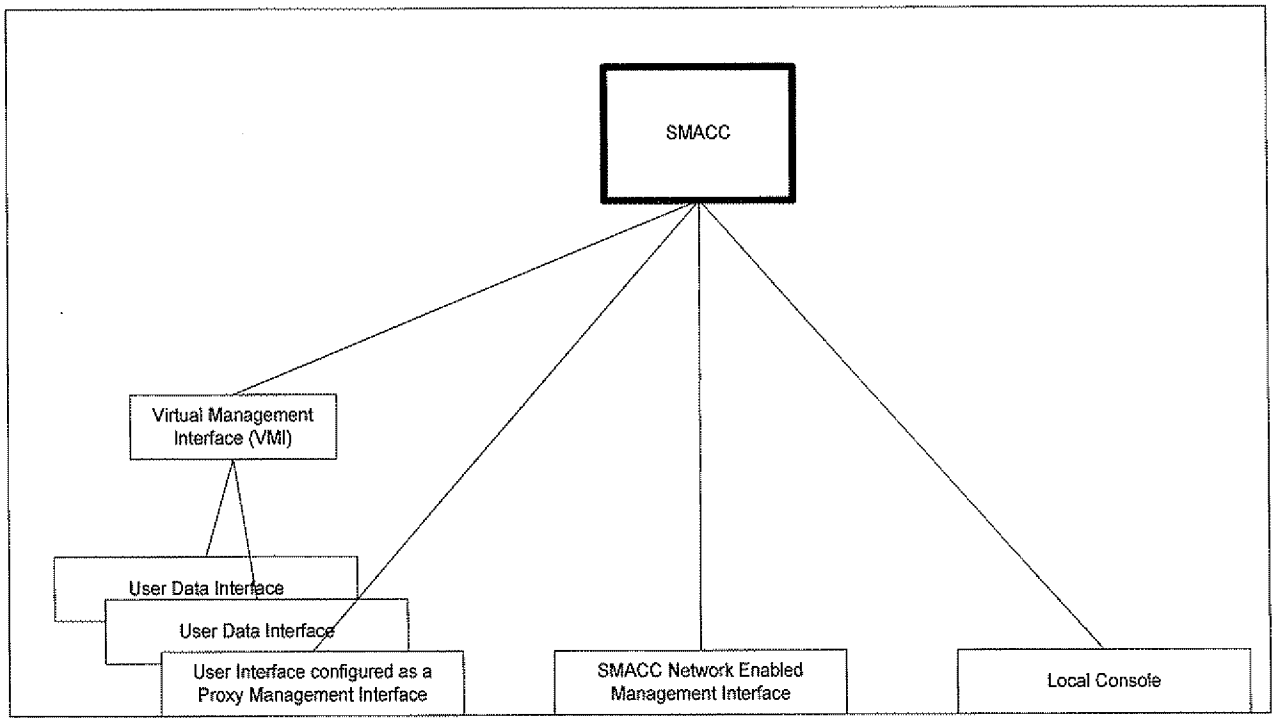

SMACC
Virtual Management Interface (VMI)
User Data Interface
User Data Interface
User Interface configured as a Proxy Management Interface
SMACC Network Enabled Management Interface
Local Console

Fig. 21

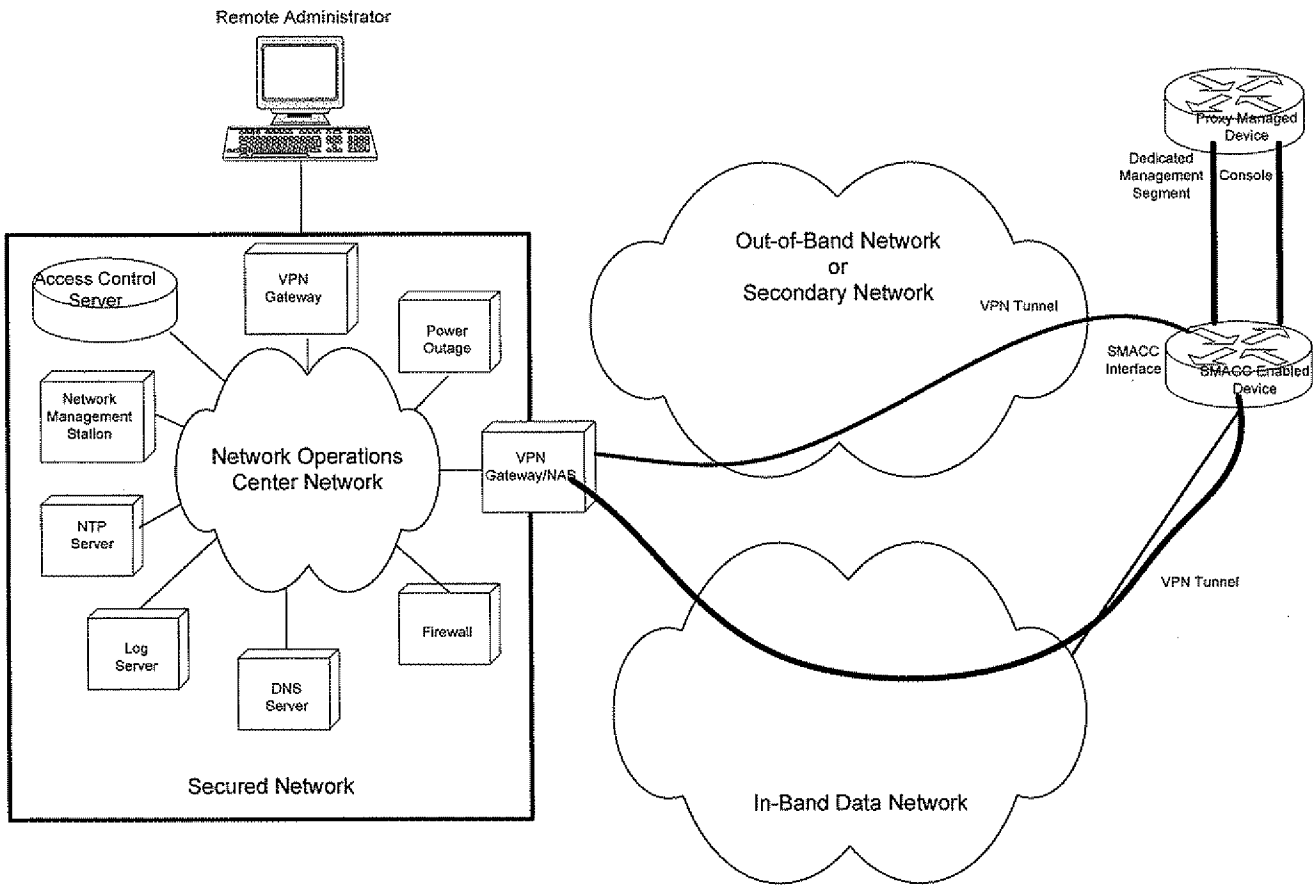

Remote Administrator
Proxy-Managed Device
Dedicated Management Segment
Console
Out-of-Band Network or Secondary Network
VPN Tunnel
SMACC Interface
SMACC Enabled Device
Access Control Server
VPN Gateway
Power Outage
Network Management Station
Network Operations Center Network
VPN Gateway/NAS
NTP Server
Log Server
DNS Server
Firewall
Secured Network
VPN Tunnel
In-Band Data Network

Fig. 22

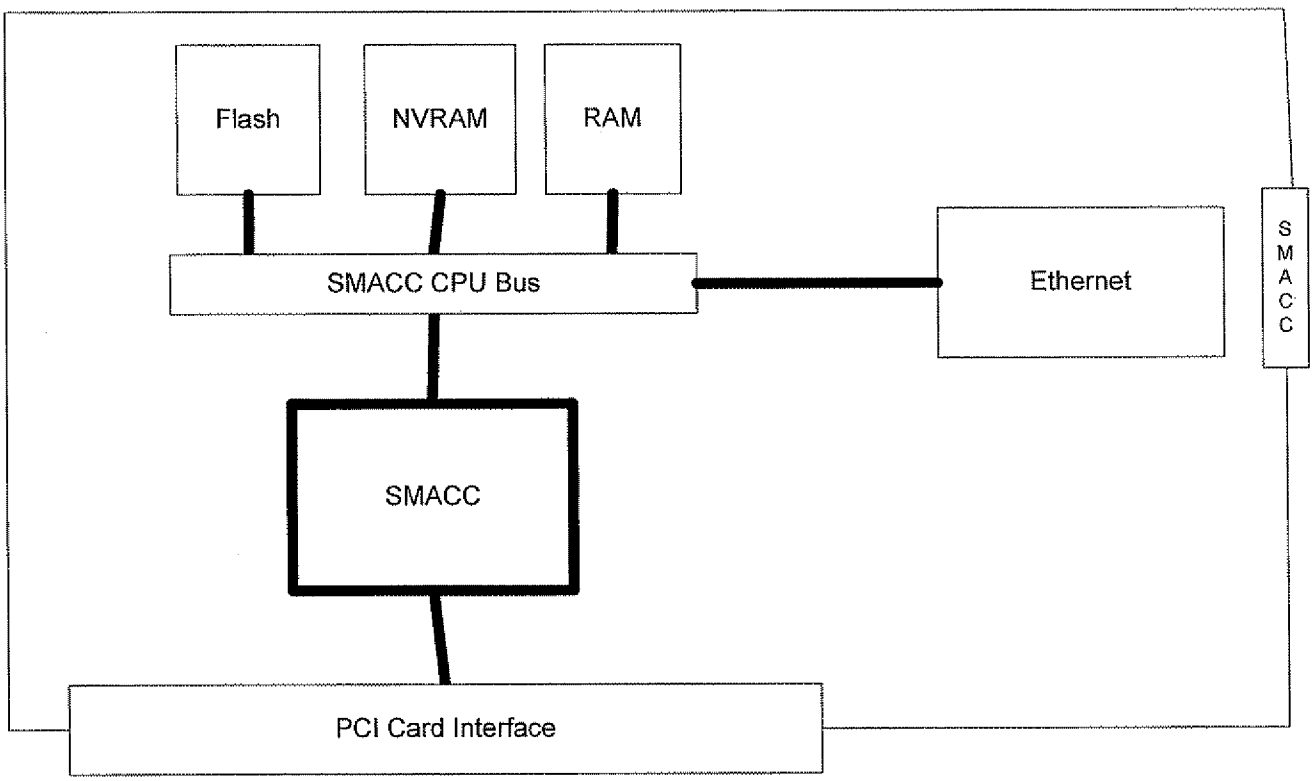

Flash
NVRAM
RAM
SMACC CPU Bus
Ethernet
S
M
A
C
C
SMACC
PCI Card Interface

Fig. 23

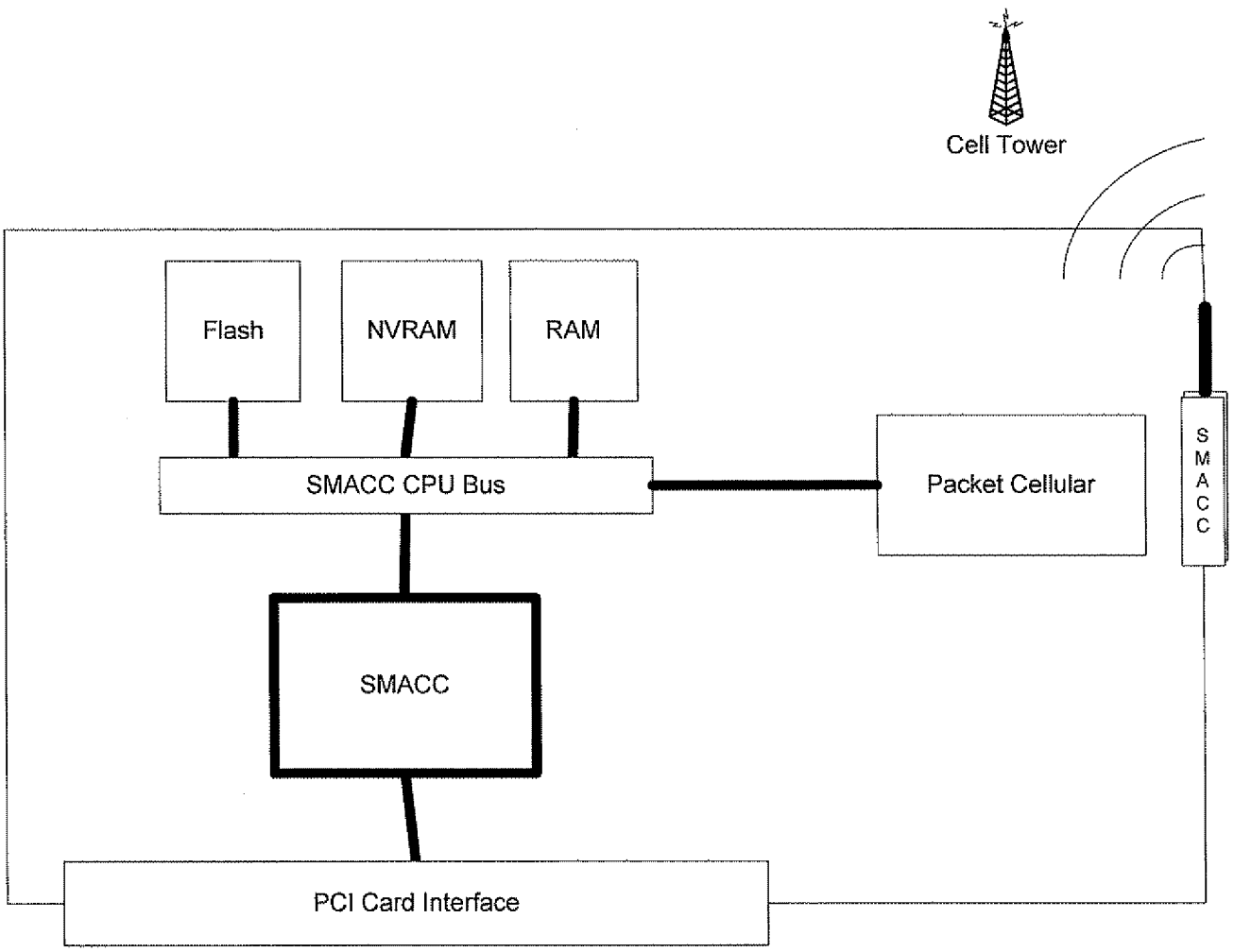

Cell Tower
Flash
NVRAM
RAM
SMACC CPU Bus
Packet Cellular
S
M
A
C
C
SMACC
PCI Card Interface

Fig. 24

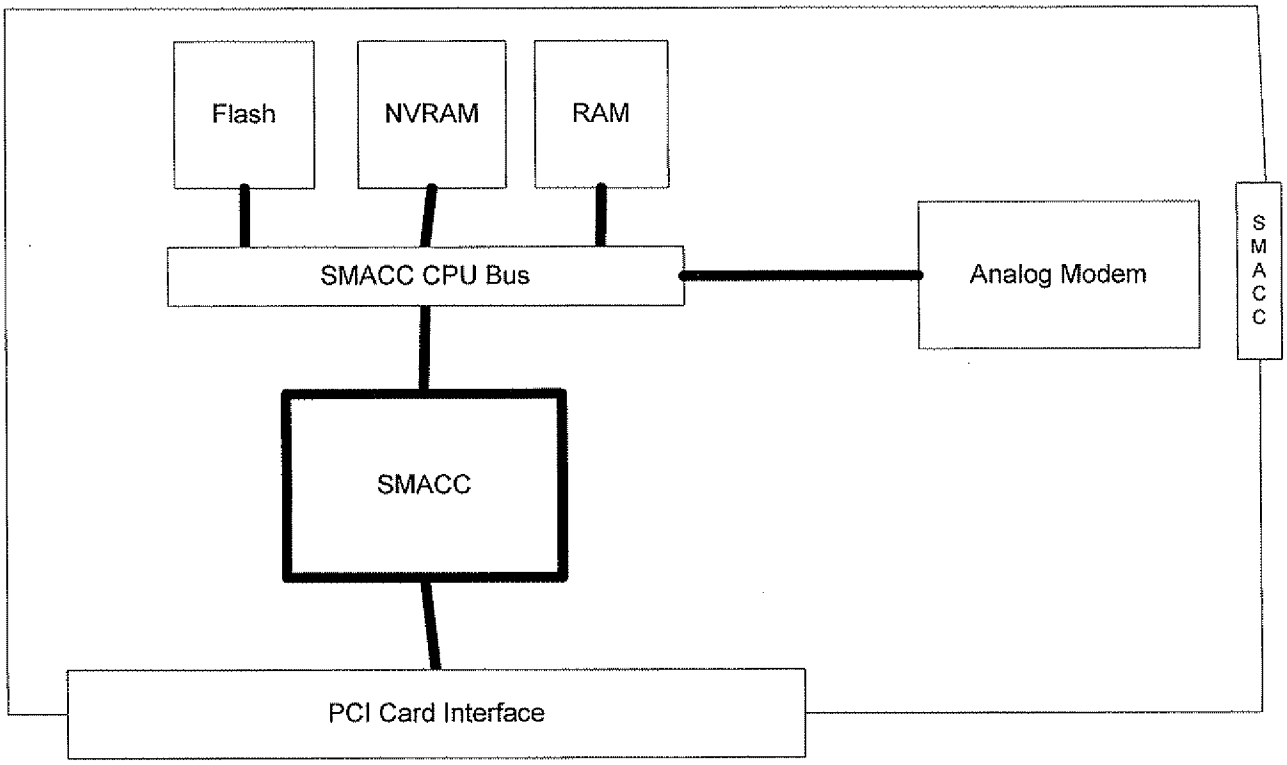

Flash
NVRAM
RAM
SMACC CPU Bus
Analog Modem
S
M
A
C
C
SMACC
PCI Card Interface

Fig. 25

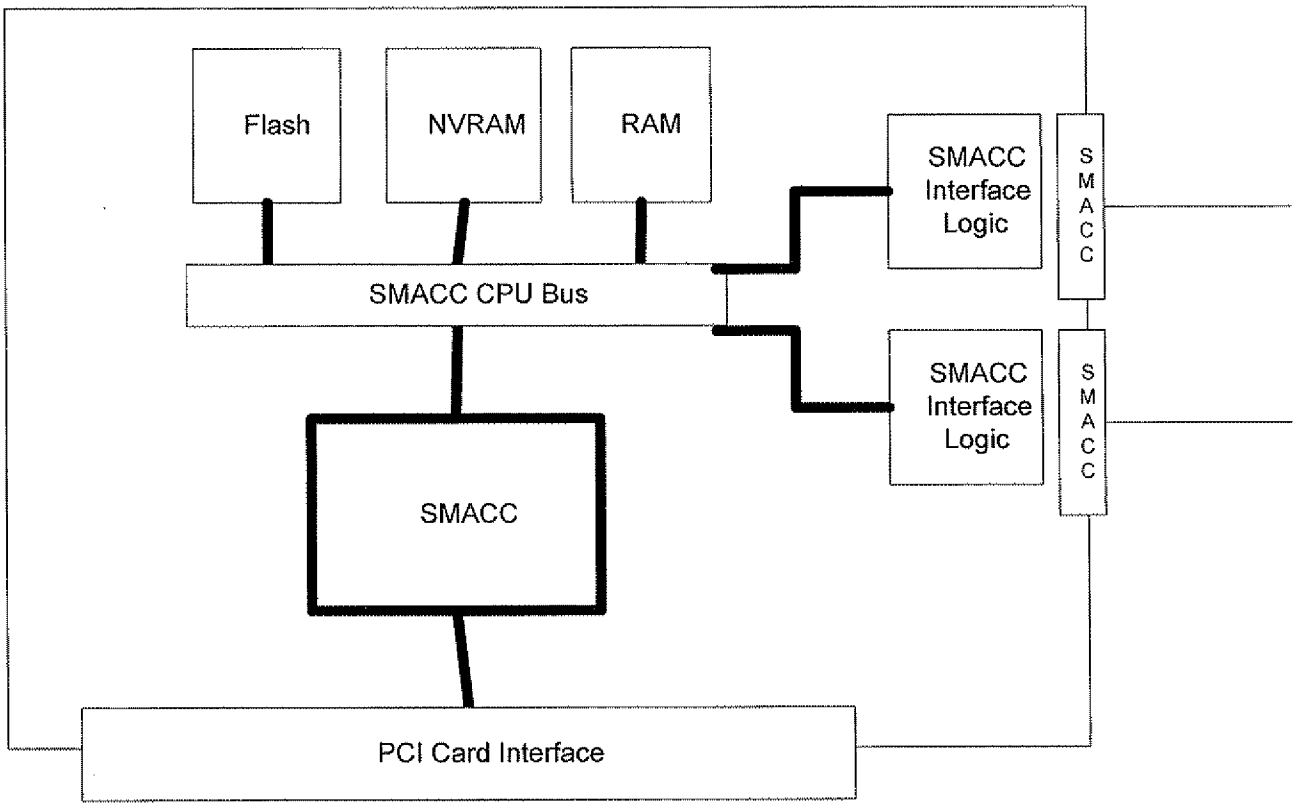

Flash
NVRAM
RAM
SMACC Interface Logic
S M A C C
SMACC CPU Bus
SMACC Interface Logic
S M A C C
SMACC
PCI Card Interface

Fig. 26

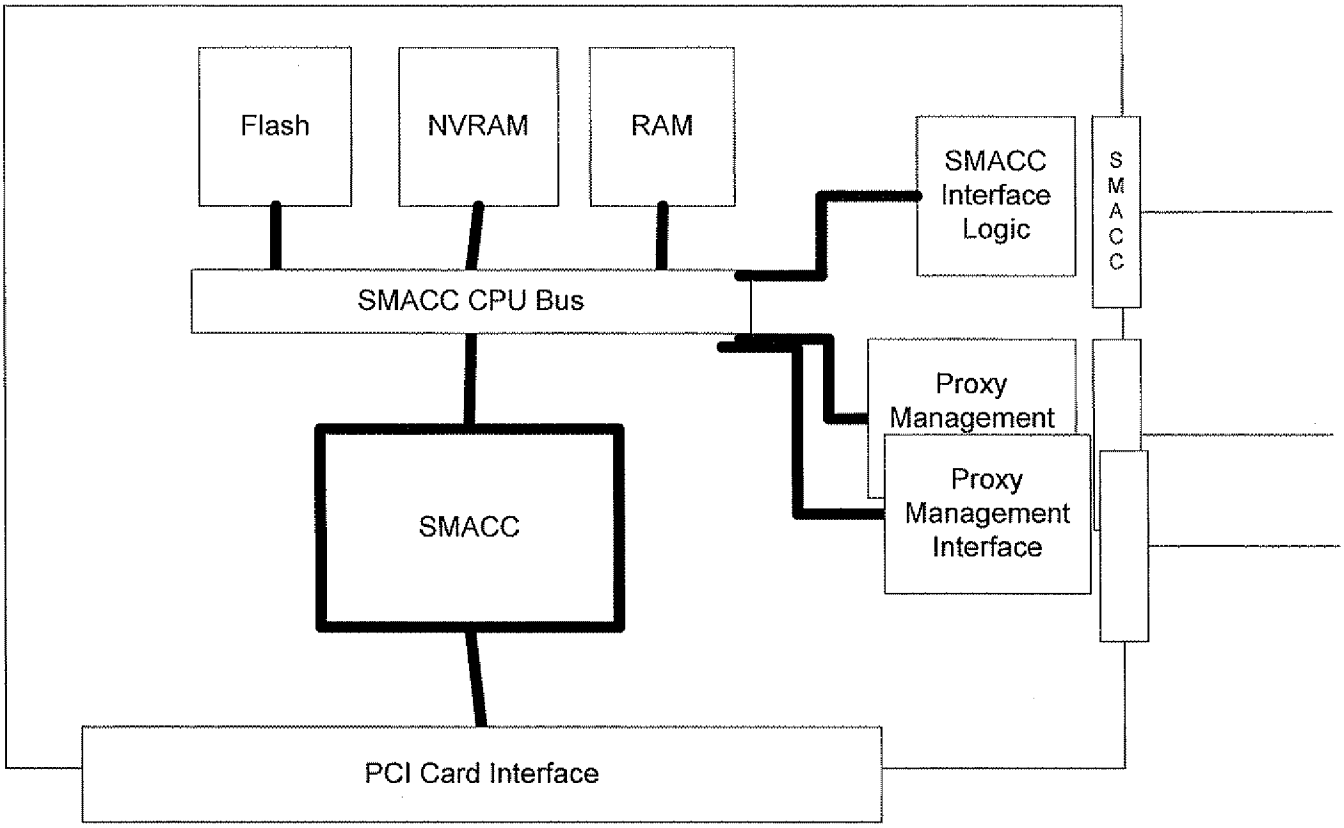

Flash
NVRAM
RAM
SMACC Interface Logic
S M A C C
SMACC CPU Bus
Proxy Management
Proxy Management Interface
SMACC
PCI Card Interface

Fig. 27

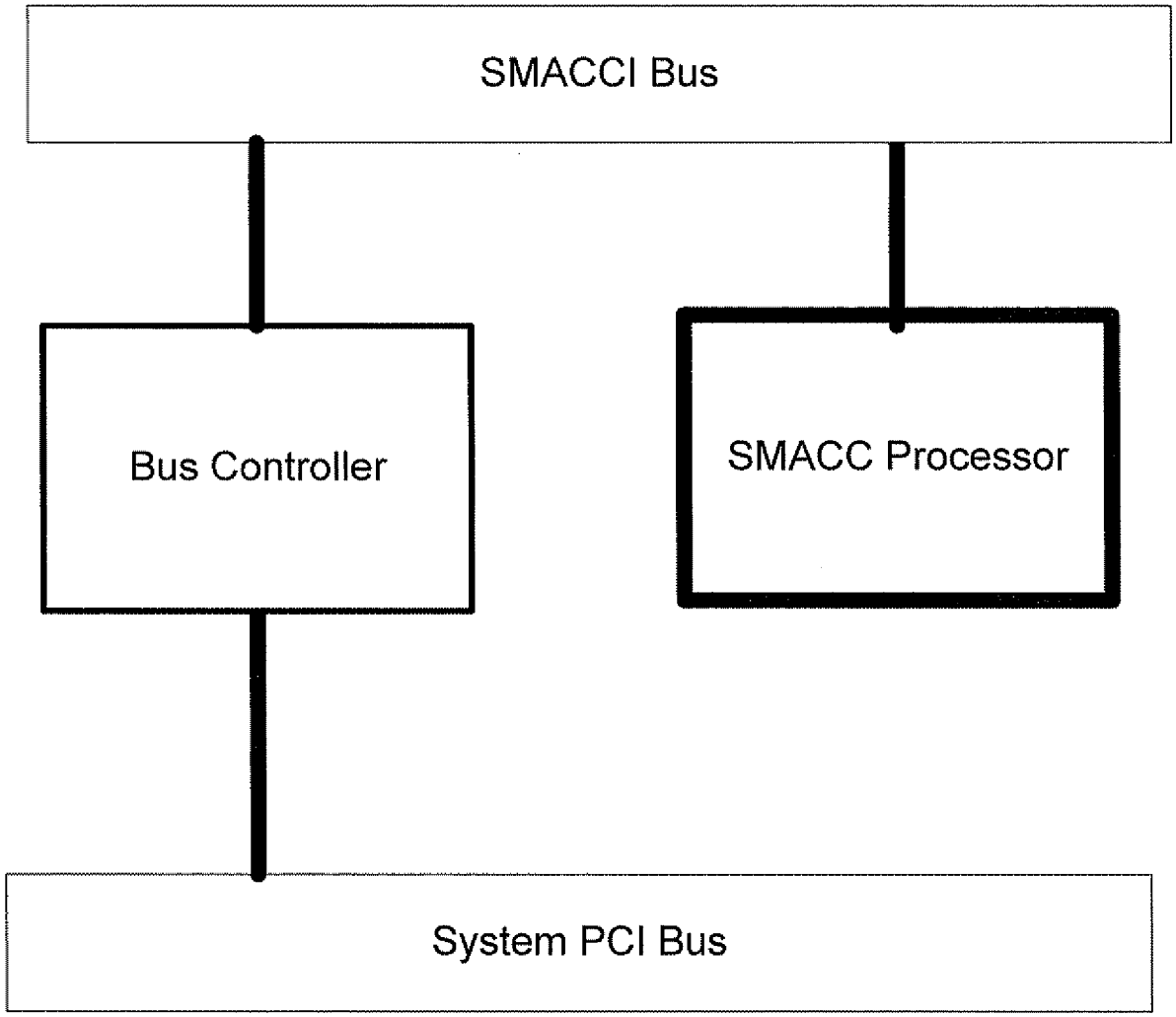


Fig. 28

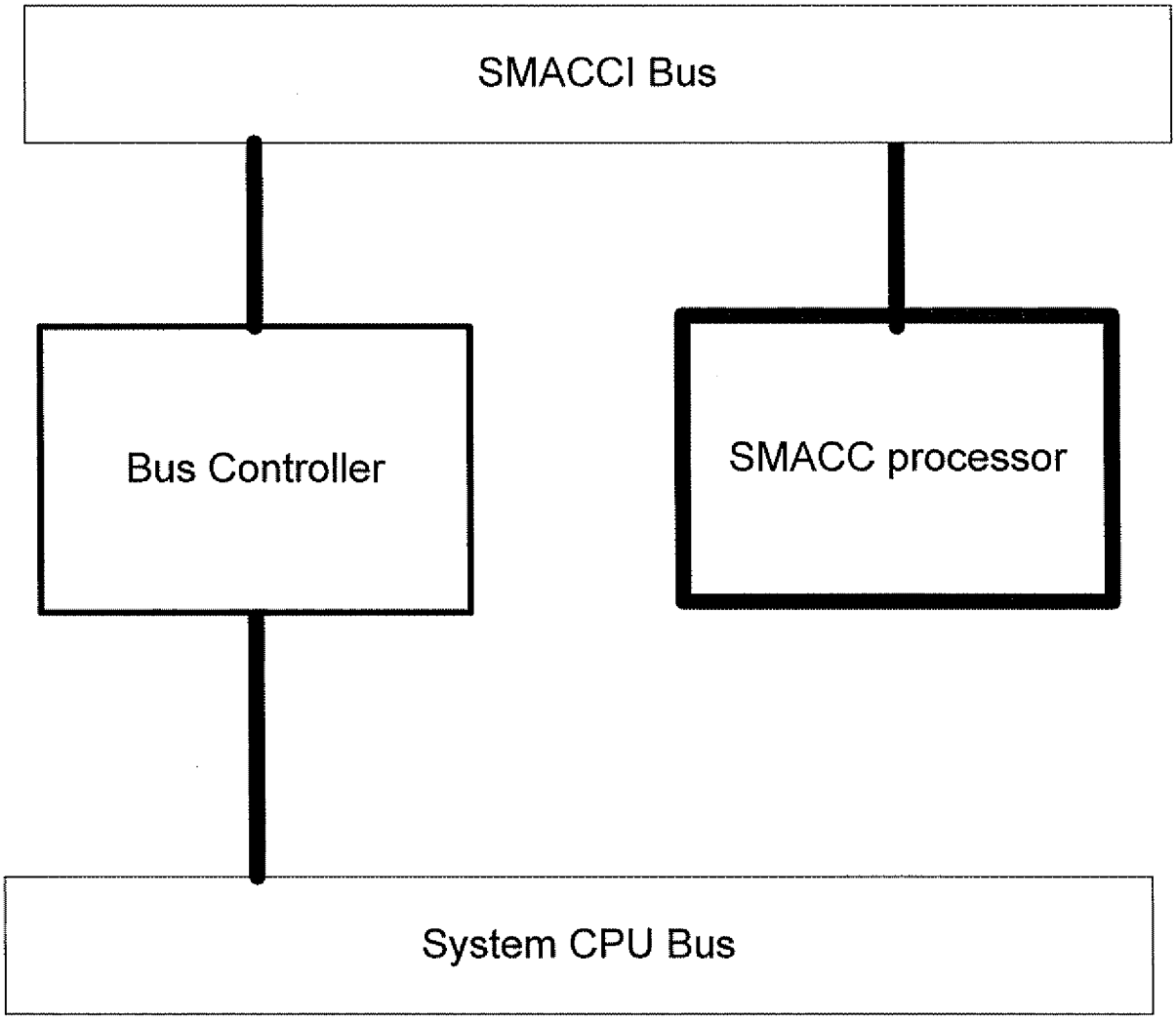


Fig. 29

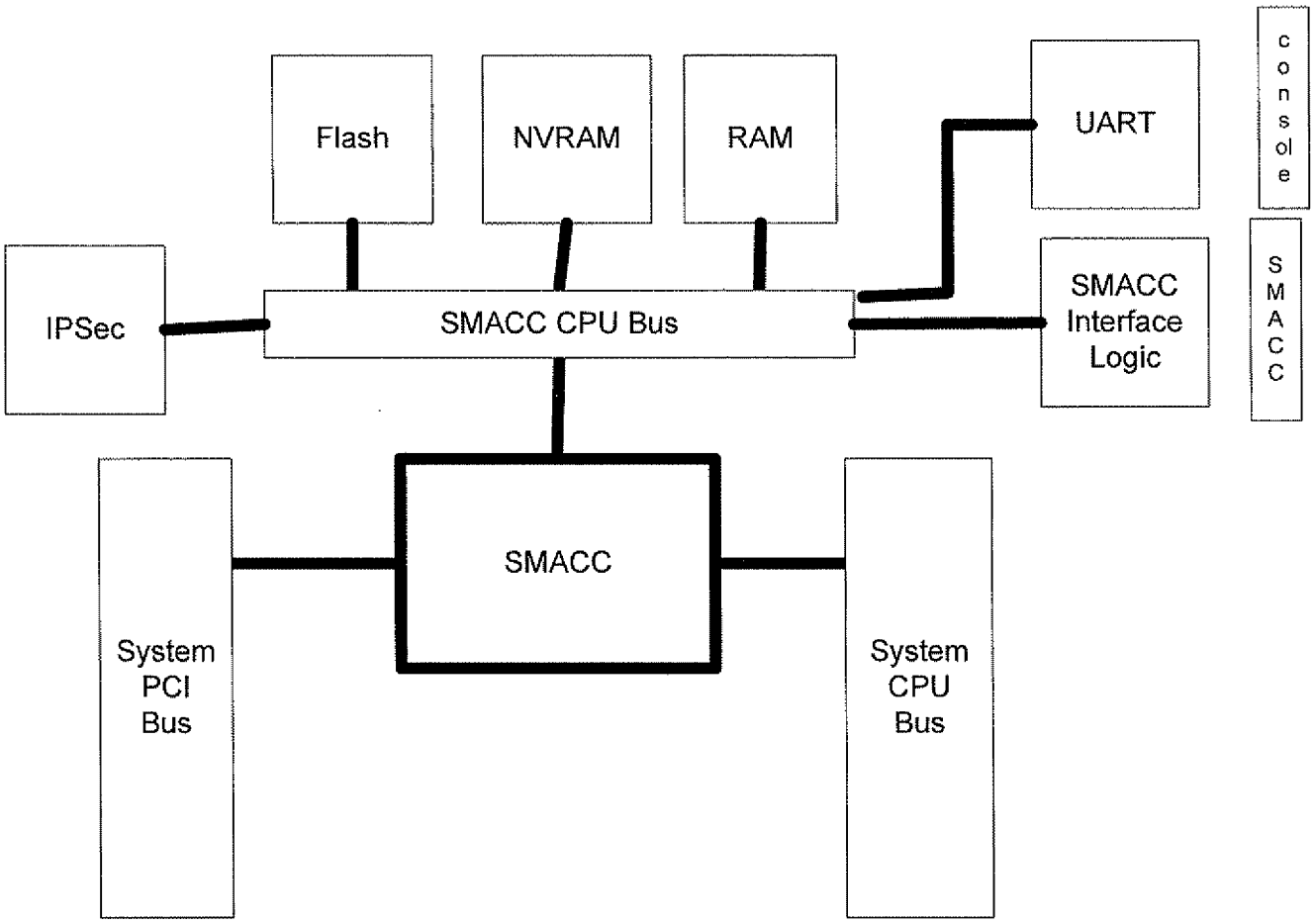

Flash
NVRAM
RAM
UART
console
IPSec
SMACC CPU Bus
SMACC Interface Logic
SMACC
SMACC
System PCI Bus
System CPU Bus

Fig. 30

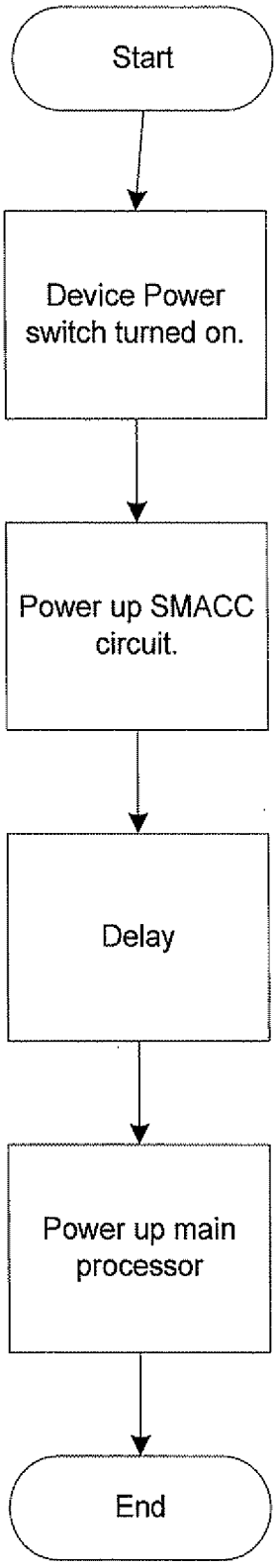

Start
Device Power switch turned on.
Power up SMACC circuit.
Delay
Power up main processor
End

Fig. 31

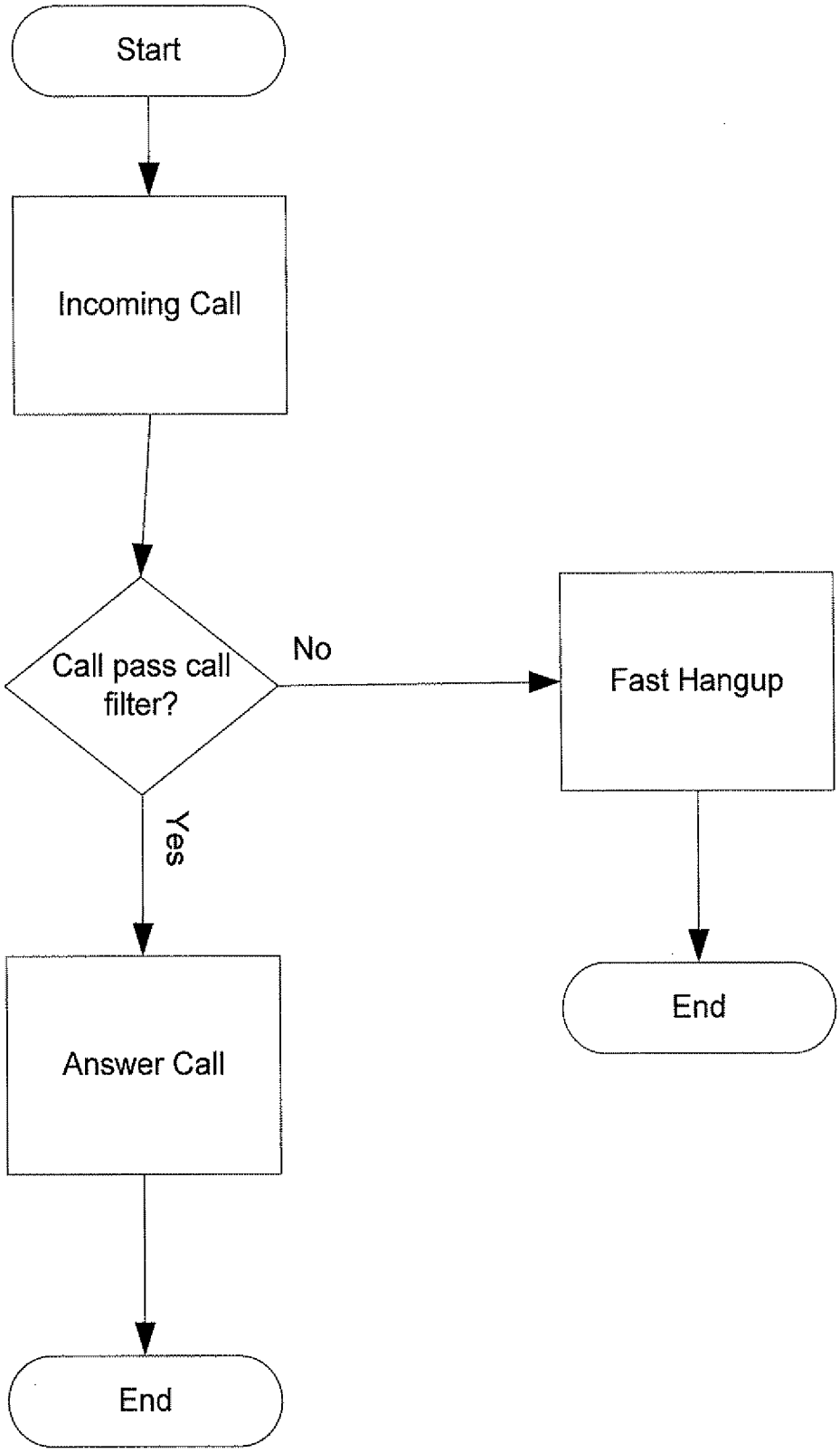

Start
Incoming Call
Call pass call filter?
No
Fast Hangup
Yes
End
Answer Call
End

Fig. 32

PATENT APPLICATION

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY DOCKET NO. ENGEDI 7

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

the specification of which is attached hereto unless the following box is checked:

( ) was filed on _____ as US Application Serial No. or PCT International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES:___ NO:___
			YES:___ NO:___

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE
60/512,777	10/21/2003
60/388,287	6/13/2002
60/438,282	1/6/2003

U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS(patented/pending/abandoned)
10/969,561	10/20/2004	Pending
10/461,827	6/13/2003	Pending

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John H. Thomas, Reg. No. 33460 **Alexander D. Raring, Reg. No. 52,502** **Brian J. Teague, Reg. No. 55,670**

Send Correspondence to:	**Direct Telephone Calls To:**
Brian J. Teague **John H. Thomas, P.C.** **536 Granite Avenue** **Richmond, Virginia 23226**	**Brian J. Teague** **804 344 8130**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Jeffrey Alan Curley **Citizenship:** U.S.

Residence: 5242 Willowbrook Road, Colorado Springs, Colorado 80917

Post Office Address: Same

_____ November 27, 2007

Inventor's Signature **Date**

Lenovo
Ex. 1004 - Page 72

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey A. Carley
Filer:	John H. Thomas/Brian J. Teague
Attorney Docket Number:	ENGEDI 7

Filed as Small Entity

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	75	75
Utility Search Fee	2111	1	255	255
Utility Examination Fee	2311	1	105	105
Pages:				
Claims:				
Claims in excess of 20	2202	3	25	75
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**510**

Electronic Acknowledgement Receipt

EFS ID:	2523123
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey A. Carley
Customer Number:	31704
Filer:	John H. Thomas/Brian J. Teague
Filer Authorized By:	John H. Thomas
Attorney Docket Number:	ENGEDI 7
Receipt Date:	29-NOV-2007
Filing Date:	
Time Stamp:	11:21:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$510
RAM confirmation Number	6446
Deposit Account	502127
Authorized User	RUSSELL,FAITH C

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Specification	specification.pdf	2223632 3a585e317897a69eae5ca38e60be831c826c5f0d	no	32
Warnings:					
Information:					
2	Claims	claims.pdf	285364 301faf4ee987227eda813d4021b146ea3afe1e3f	no	6
Warnings:					
Information:					
3	Abstract	abstract.pdf	29638 bde77b9cdf801bcf86fa91207223e0db3c5e703b	no	1
Warnings:					
Information:					
4	Drawings-only black and white line drawings	drawings.pdf	781010 c5ae247a28a7dae50ebf4c7de5a2c654fbe56cdb	no	32
Warnings:					
Information:					
5	Oath or Declaration filed	declaration.pdf	159229 4f3f1961d207bec199035b7fd3dbb6374409c1cc	no	1
Warnings:					
Information:					
6	Fee Worksheet (PTO-06)	fee-info.pdf	8522 4978d76e186005f5ec8b16fb44d033d56a85e65e	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3487395		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (12-04)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Filing Date: **11/29/07**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: **11/946,976**

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	255		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	105		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	23 minus 20 =	3	X$ 25	75	OR	X$50	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	* 0	X$105	0		X$210	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $260 ($130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			185			370	370
			TOTAL	510		TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/946,976	11/29/2007	Jeffrey Alan Carley	ENGEDI 7

CONFIRMATION NO. 1104

Brian J. Teague
John H. Thomas, P.C.
536 Granite Avenue
Richmond, VA23226

Date Mailed. 12/13/2007

NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 03/20/2008. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently http://pair.uspto.gov. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Questions relating to this Notice should be directed to the Office of Patent Publication at 1-888-786-0101.

PART 1 - ATTORNEY/APPLICANT COPY

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/946,976	11/29/2007	2131	510	ENGEDI 7	23	3

CONFIRMATION NO. 1104

Brian J. Teague
John H. Thomas, P.C.
536 Granite Avenue
Richmond, VA 23226

FILING RECEIPT



Date Mailed: 12/14/2007

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Jeffrey Alan Carley, Colorado Springs, CO;

Power of Attorney:
John Thomas--33460
Alexander Raring--52502
Brian Teague--55670

Domestic Priority data as claimed by applicant

This application is a CON of 10/969,561 10/20/2004
which is a CIP of 10/461,827 06/13/2003
which claims benefit of 60/388,287 06/13/2002
and claims benefit of 60/438,282 01/06/2003

Foreign Applications

If Required, Foreign Filing License Granted: 12/12/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/946,976**

Projected Publication Date: 03/20/2008

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****

Title

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

Preliminary Class

726

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/946,976	11/29/2007	Jeffrey Alan Carley	ENGEDI 7

CONFIRMATION NO. 1104

Brian J. Teague
John H. Thomas, P.C.
536 Granite Avenue
Richmond, VA23226

Title: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

Publication No. US-2008-0072291-A1
Publication Date: 03/20/2008

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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Pre-Grant Publication Division, 703-605-4283

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jeffrey A. Carley Serial No.: 11/946,976 Filed: 11/29/2007 Title: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT Attorney Docket No.: ENGEDI 7	Group Art Unit: 2131 Examiner: Unassigned Confirmation No.: 1104

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted under 37 CFR 1.97(b) (within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last).

Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

It is requested that the information disclosed herein be made of record in this application.

The Commissioner is hereby authorized to charge any deficiencies in payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-2127.

Respectfully submitted,



Brian J. Teague
Attorney/Agent for Applicant(s)
Reg. No. 55,670

Date: March 24,2008

Telephone No.: (804) 344-8130

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5684957		Kondo et al.	11/4/1997	
		5889566		Nguyen	11/18/1997	
		5761428		Sidey	6/2/1998	
		5848161		Luneau et al.	12/8/1998	
		5968176		Nessett et al.	10/19/1999	
		6055575		Paulsen et al.	4/25/2000	
		6079020		Liu	6/20/2000	
		6085243		Fletcher et al.	7/4/2000	
		6108782		Fletcher et al.	8/22/2000	
		6148337		Estberg et al.	11/14/2000	
		6189102		Beser	2/13/2001	
		6243815		Antur et al.	6/5/2001	
		6335927		Elliott et al.	1/1/2002	
		6366585		Dapper et al.	4/2/2002	
		6408392		White	6/18/2002	
		6446200		Ball et al.	9/3/2002	
		6456306		Chin et al.	9/24/2002	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark hee if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6473863		Genty et al.	10/29/2002	
		6480955		Dekoning et al.	11/12/2002	
		6484261		Wiegel	11/19/2002	
		6496858		Frailong et al.	12/17/2002	
		6553416		Chari et al.	4/22/2003	
		6560222		Pounds et al.	5/6/2003	
		6578042		Arrouye et al.	6/10/2003	
		6601084		Bhaskaran et al.	7/29/2003	
		6651190		Worley et al.	11/18/2003	
		6654796		Slater et al.	11/25/2003	
		6654891		Borsato et al.	11/25/2003	
		6662221		Gonda et al.	12/9/2003	
		6678826		Kelly et al.	1/13/2004	
		6684241		Sandick et al.	1/27/2004	
		6697947		Matyas, Jr. et al.	2/24/2004	
		6700890		Langley et al.	3/2/2004	
		6711613		Ewing et al.	3/23/2004	
		6751677		Ilnicki et al.	6/15/2004	
		6754831		Brownell	6/22/2004	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6757297		Chin	6/29/2004	
		6894994		Grob et al.	5/17/2005	
		6970924		Chu et al.	11/29/2005	
		6973491		Staveley et al.	12/6/2005	
		6982953		Swales	1/3/2006	
		7024695		Kumar et al.	4/4/2006	
		7028228		Lovy et al.	4/11/2006	
		2001/0056548		Blumberg	12/27/2001	
		2002/0001302		Pickett	1/3/2002	
		2002/0052950		Pillai et al.	5/2/2002	
		2002/0057018		Branscomb et al.	5/16/2002	
		2002/0064149		Elliott et al.	5/30/2002	
		2002/0116485		Black et al.	8/22/2002	
		2002/0162005		Ueda et al.	10/31/2002	
		2002/0165961		Everdell et al.	11/7/2002	
		2002/0029337		Sudia et al.	03/07/2002	
		2003/0023854		Novak et al.	1/30/2003	
		2003/0041136		Cheline et al.	2/27/2003	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		2003/0088513		Gritzmacher et al.	5/8/2003	
		2003/0093244		Corlett et al.	5/15/2003	
		2003/0093563		Young et al.	5/15/2003	
		2003/0097444		Dutta et al.	5/22/2003	
		2003/0156740		Siegel et al.	8/21/2003	
		2003/0221011		Shitano	11/27/2003	
		2004/0003071		Mathew et al.	1/1/2004	
		2004/0104266		Bolle et al.	6/3/2004	
		2004/0153552		Trossen et al.	8/5/2004	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	Unassigned
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Jaehong Park et al.; Towards Usage Control Models: Beyond Traditional Access Control	
		Ravi Sandhu et al.; Usage Control: A Vision for Next Generation Access Control	
		Gail-Joon Ahn et al.; Role-based Authorization Constraints Specification; ACM Transactions on Information and System Security, Vol. 3, No. 4, November 2000, Pages 207-226.	
		Hardware you need FAST; Symbiat (online); Copyright 2002; pages 1-2 specifically page 1.	
		Hari Harikrishnan: Advanced security for data, voice and video access ideal for small offices and teleworkers; introducing Cisco 836 and SOHO 96 Secure Broadband Routers, Cisco.com: March 2003; pages 1-14, specifically pages 4, 6 & 10.	

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Electronic Acknowledgement Receipt

EFS ID:	3042206
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas/Brian J. Teague
Filer Authorized By:	John H. Thomas
Attorney Docket Number:	ENGEDI 7
Receipt Date:	24-MAR-2008
Filing Date:	29-NOV-2007
Time Stamp:	15:54:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed	ids.pdf	511754 fd4ac5ba28dbb2405275973dfcab822d90bfe68c	no	7
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	NPL Documents	npl1.pdf	147996 8006af8f30d8af214eeba822348d16fc7bc60594	no	2
Warnings:					
Information:					
3	NPL Documents	npl2.pdf	1312676 d3f0b51d26fd643d1f21fa9dac56fb3f4e97df3a	no	20
Warnings:					
Information:					
4	NPL Documents	npl3.pdf	962710 37b5944b71d695e337a15910662faec9beed3e85	no	15
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Information:					
5	NPL Documents	npl4.pdf	814372 5a535c020e0132c7dd7d141ad858d288d3e341c2	no	8
Warnings:					
Information:					
6	NPL Documents	npl5.pdf	2029516 83486c2950fcc034ef5447c9315d26c608d0ace6	no	14
Warnings:					
Information:					
		Total Files Size (in bytes):	5779024		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jeffrey A. Carley Serial No.: 11/946,976 Filed: 11/29/2007 Title: SECURE MANAGEMENT ACCESS FOR COMPUTERS, EMBEDDED AND CARE EMBODIMENT Attorney Docket No.: ENGEDI 7	Group Art Unit: 2131 Examiner: N/A Confirmation No.: 1104

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1451

INFORMATION DISCLOSURE STATEMENT

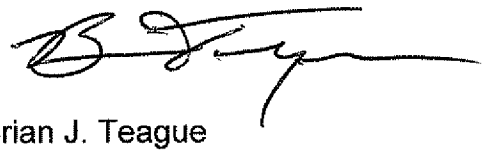
Dear Sir:

This Information Disclosure Statement is submitted under 37 C.F.R. §1.97(b) - - Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last.

Applicant submits herewith a Form PTO 1449-Information Disclosure Citation together with patents, publications or other information of which applicant(s) are aware, which applicant believes may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56.

The Commissioner is hereby authorized to charge any deficiencies in payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-2127.

Respectfully submitted,



Brian J. Teague
Attorney/Agent for Applicant(s)
Reg. No. 55,670

Date: August 25, 2008

Telephone No.: 804 344 8130

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey A. Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	U.S. Patent Document Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6304973		Williams	10/16/2001	
		6678827		Rothermel et al.	1/13/2004	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Foreign Patent Document Number[4]	Foreign Patent Document Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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First Named Inventor	Jeffrey A. Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		PCT Search Report and Written Opinion; Application No.: PCT/US04/34707; date of mailing July 8, 2008; 7 pages.	
		A Model for Multilevel Security in Computer Networks; Lu et al.; IEEE Transactions on Software Engineering, Vol. 16., No. 6; June 1990; pp. 647-659;13 pages.	
		Better Security via Smarter Devices; Ganger et al.; 2001 IEEE, pp. 100-105; 6 pages.	

Examiner Signature		Date Considered	

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Electronic Acknowledgement Receipt

EFS ID:	3831492
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas
Filer Authorized By:	
Attorney Docket Number:	ENGEDI 7
Receipt Date:	25-AUG-2008
Filing Date:	29-NOV-2007
Time Stamp:	12:59:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	NPL Documents	npl1.pdf	538971 99480710dc6c3b40b2ddbe97e5ff9d13c51d8dff	no	8
Warnings:					
Information:					
3	NPL Documents	npl2.pdf	554564 792e819b37002e15b395e1a1c008f0efa31ac3d7	no	6
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Information:					
4	NPL Documents	npl3.pdf	1262588 34b8eba3631e194b2e318fe84e32e9aa248534e0	no	13
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New Applications Under 35 U.S.C. 111

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jeffrey A. Carley Serial No.: 11/946,976 Filed: 11/29/2007 Title: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS EMBEDDED AND CARD EMBODIMENT Attorney Docket No.: ENGEDI 7	Group Art Unit: 2432 Examiner: Gilberto Barron Jr. Confirmation No.: 1104

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

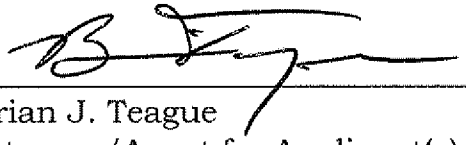
This Information Disclosure Statement is submitted under 37 CFR 1.97(b) (within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last).

Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

It is requested that the information disclosed herein be made of record in this application.

The Commissioner is hereby authorized to charge any deficiencies in payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-2127.

Respectfully submitted,



Brian J. Teague
Attorney/Agent for Applicant(s)
Reg. No. 55,670

Date: December 18, 2008

Telephone No.: (804) 344-8130

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2432
Examiner Name	Gilberto Barron Jr.
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		USPTO Office Action; Serial No. 10/461,820; date mailed 7/5/2005.	
		USPTO Office Action; Serial No. 10/461,820; date mailed 2/24/2006.	
		USPTO Office Action; Serial No. 10/461,820 date mailed 6/9/2004.	
		USPTO Office Action; Serial No. 10/969,561; date mailed 11/2/2006.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 3/26/2008.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 10/3/2007.	
		USPTO Office Action; Serial No.10/461,827; date mailed 11/28/2006.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 5/8/2006.	
		USPTO Office Action Serial No. 10/461,827; date mailed 10/5/2008.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Electronic Acknowledgement Receipt

EFS ID:	4475691
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas
Filer Authorized By:	
Attorney Docket Number:	ENGEDI 7
Receipt Date:	17-DEC-2008
Filing Date:	29-NOV-2007
Time Stamp:	16:31:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement Letter	ids.pdf	134735 267006574b72816a7845cf5fe6f3eb50a7ae9890	no	3
Warnings:					
Information:					
2	NPL Documents	npl6.pdf	620065 ed27bd4eceaa2954c62abc8df6f2d8dbe24fdff0	no	10
Warnings:					
Information:					
3	NPL Documents	npl7.pdf	920419 2f33dec720c31dfa38e88dd56c6001c0210b57c2	no	14
Warnings:					
Information:					
4	NPL Documents	npl8.pdf	982613 064b6a930f44ef5e9fafd642471dd2645c906bfe	no	15
Warnings:					
Information:					
5	NPL Documents	npl9.pdf	1120798 40b5ff387f350877acc68f3433dda5e8b7145c8b	no	17
Warnings:					
Information:					
6	NPL Documents	npl10.pdf	1108840 78825f2c13e1c51654ff5ed9b8fc2dc7204e18c0	no	17
Warnings:					
Information:					
7	NPL Documents	npl11.pdf	1259071 847156af568784c5a5ad84b20a0309049418db39	no	19
Warnings:					
Information:					
8	NPL Documents	npl12.pdf	595052 0b47bdff65b07d711a3f5f6e9bc8411d95a7f136	no	10
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Warnings:					
Information:					
10	NPL Documents	npl14.pdf	530290 a1f90994c02d09b8921afaf981be6f3c31ce8e81	no	10
Warnings:					
Information:					
			Total Files Size (in bytes):	7681144	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Carley
Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7099934		2006-08-29	Ewing et al.	
	2	6678826		2004-01-13	Kelly et al.	
	3	6343320		2002-01-29	Fairchild et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Carley
	Art Unit	2131
	Examiner Name	N/A
	Attorney Docket Number	ENGEDI 7

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	USPTO Office Action; Serial No. 11/611,210; date mailed July 20, 2009.	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Carley
	Art Unit	2131
	Examiner Name	N/A
	Attorney Docket Number	ENGEDI 7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

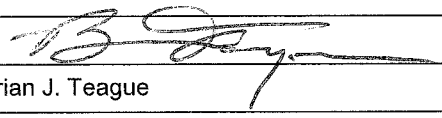
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2009-10-30
Name/Print	Brian J. Teague	Registration Number	55670

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt

EFS ID:	6362239
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas
Filer Authorized By:	
Attorney Docket Number:	ENGEDI 7
Receipt Date:	30-OCT-2009
Filing Date:	29-NOV-2007
Time Stamp:	11:49:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	eng7ids.pdf	1003448 e72860693d1c595daa7d687296d3efda7521d528	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	NPL Documents	oa.pdf	1500093 20043bd9e1bed043fca56adb5808ae9123a7ba22	no	27
Warnings:					
Information:					
		Total Files Size (in bytes):	2503541		

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New Applications Under 35 U.S.C. 111

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New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2131
Examiner Name	n/a
Attorney Docket Number	ENGEDI 7

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5764886		1998-06-09	Danielson et al.	
	2	6894999		2005-05-17	Acharya, Yatin	
	3	6424647		2002-07-23	Ng et al.	
	4	7441043		2008-10-21	Henry et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2131
	Examiner Name	n/a
	Attorney Docket Number	ENGEDI 7

	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	USPTO Office Action ; Serial No. 12/352,161 date mailed 7/23/2010.	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2131
	Examiner Name	n/a
	Attorney Docket Number	ENGEDI 7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

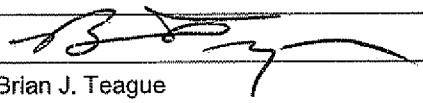
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2010-08-02
Name/Print	Brian J. Teague	Registration Number	55670

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt

EFS ID:	8133475
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas/Brian Teague
Filer Authorized By:	John H. Thomas
Attorney Docket Number:	ENGEDI 7
Receipt Date:	02-AUG-2010
Filing Date:	29-NOV-2007
Time Stamp:	11:48:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	20100802115559406.pdf	208284 989156280ade8bd4383fbba34fcd2ddb18d8fc49	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	NPL Documents	oa.pdf	1479932 ec2174324ce2717e3c996bff90af8750ab400c71	no	22
Warnings:					
Information:					
		Total Files Size (in bytes):	1688216		

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	ENGEDI 7	1104

7590 10/01/2010

Brian J. Teague
John H. Thomas, P.C.
536 Granite Avenue
Richmond, VA 23226

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

MAIL DATE	DELIVERY MODE
10/01/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *29 November 2007*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-23* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-23* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *29 November 2007* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *3/24/08;8/25/08;12/17/08;10/30/09;08/02/10*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the communication filed on November 29, 2007. Claims 1-23 are pending. At this time, claims 1-23 are rejected.

In preparing for this office action, Examiner has pointed out particular references contained in the prior art(s) of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claims, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully each reference in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Information Disclosure Statement

2. The information disclosure statement (IDS) filed on March 24, 2008, August 25, 2008, December 17, 2008, October 30, 2009, and August 02, 2010 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: **Reference numbers are not included in all the drawings**. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective

action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-21 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-16 of U.S. Patent No. 7325,140 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because they include the similar subject matter.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Narad et al (US 6,859,841 B2).

a. *Referring to claim 1:*

i. Narad teaches in a computer system having one or more processors, memory, one or more data buses, and one or more user data interfaces, a management apparatus for securing access to one or more device management functions provided by said computer system or said management apparatus and for providing for secure communication of management traffic between said devise management functions and one or more management function communication partners utilizing one or more communication networks, said management apparatus comprising:

(1) one or more management processors for controlling access to said device management functions **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**;

(2) one or more management interfaces for communication with said management processor, said management interfaces operatively coupled to said management processor and capable of being operatively coupled to one or more of said communication networks **(see Figure 3, elements 202 and 206; column 5, line 63 through column 6, line 9 of Narad);** and

(3) one or more operative couplings between said management processor and one or more of said data buses **(see Figure 4, element 324; column 7, lines 49-58 of Narad);**

(4) wherein access to said device management functions and communication of management traffic between said device management functions and said management function communication partners utilizes one or more of said management interfaces and said management processor **(column 1, lines 51-57; column 4, lines 12-39 of Narad).**

b. *Referring to claim 2:*

i. Narad further teaches:

(1) wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of remote login, authentication, device configuration, setting of the device clock, updating device software, and patching device software **(column 62, line 62 through column 63, line 2 of Narad).**

c. *Referring to claim 3:*

i. Narad further teaches:

(1) wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of management apparatus login, management apparatus configuration, updating management apparatus software, patching management apparatus software **(column 62, line 62 through column 63, line 2 of Narad).**

d. *Referring to claim 4:*

i. Narad further teaches:

(1) wherein said remote management activities for management apparatus configuration are selected from the group consisting of configuration of access controls, configuration of filtering, configuration of said management interface parameters, configuration of network parameters, and

configuration of parameters for network services **(column 61, line 62 through column 62, line 2 of Narad)**.

e. *Referring to claim 5:*

i. Narad further teaches:

(1) wherein said management function communication partners are selected from the group consisting of network services and administrators **(column 62, line 64 of Narad).**

f. *Referring to claim 6:*

i. Narad further teaches:

(1) wherein one or more of said network services are selected from the group consisting of authentication and authorization services, domain name services, logging services, network time services, trap services, and polling services **(column 62, line 62 through column 63, line 2 of Narad).**

g. *Referring to claim 7:*

i. Narad further teaches:

(1) wherein a portion of said management traffic comprises communication protocols selected from the group consisting of Simple Network Management Protocol, Hypertext transfer Protocol, Hypertext Transfer Protocol over Secure Socket Layer, Network Time Protocol, Telnet, Secure Shell, Domain Name System, File Transfer Protocol, Trivial File Transfer Protocol, Syslog, RADIUS, TACACS+, Lightweight Directory Access Protocol (LDAP), and eXtensible Markup Language (XML) **(column 72, line 45 of Narad, wherein Diagram 16 shows Telnet/FTP example).**

h. *Referring to claim 8:*

i. Narad further teaches:

(1) wherein a portion of said management traffic comprises proprietary communication protocols **(column 8, lines 44-54 of Narad).**

i. *Referring to claim 9:*

i. Narad further teaches:

(1) wherein one or more of said data buses are selected from the group consisting of CPU bus and System bus **(see Figure 4, element 324; column 7, lines 49-58 of Narad).**

j. *Referring to claim 10:*

i. Narad further teaches:

(1) wherein one or more of said device management functions utilize one or more of said management processors **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

k. *Referring to claim 11:*

i. Narad further teaches:

(1) wherein one or more of said device management functions utilize one or more of said processors of said computer system **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

l. *Referring to claim 12:*

i. Narad further teaches:

(1) wherein said management apparatus further comprises one or more types of apparatus memory **(column 4, line 30; column 7, lines 37-38 of Narad).**

m. *Referring to claim 13:*

i. Narad further teaches:

(1) wherein one or more of said types of apparatus memory are selected from the group consisting of Flash memory, Random Access Memory (RAM), and Non-volatile Random Access Memory (NVRAM) **(column 4, line 30; column 7, lines 37-38; column 12, lines 6-21 of Narad).**

n. *Referring to claim 14:*

i. Narad further teaches:

(1) wherein said management processor is implemented on a chip (i.e., peer's device) that also provides some portion of said apparatus memory **(column 8, line 39 of Narad).**

o. *Referring to claim 15:*

i. Narad further teaches:

(1) wherein said management apparatus utilizes one or more types of said memory of said computer system **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

p. *Referring to claim 16:*

i. Narad further teaches:

(1) wherein one or more of said types of said memory of said computer system are selected from the group consisting of Flash memory, Random Access Memory (RAM), Non-volatile Random Access Memory (NVRAM), and Boot Read Only Memory (Boot ROM) **(column 4, line 30; column 7, lines 37-38; column 12, lines 6-21 of Narad)**.

q. *Referring to claim 17:*

i. Narad further teaches:

(1) one or more network enabled interfaces, wherein said network enabled interfaces are utilized as said management interfaces **(column 2, lines 14-16; column 8, line 48 of Narad).**

r. *Referring to claim 18:*

i. Narad further teaches:

(1) wherein one or more of said network enabled interfaces utilizes virtual private network technology to separate and secure management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

s. *Referring to claim 19:*

i. Narad further teaches:

(1) further comprising: a management apparatus console port, wherein said management apparatus console port provides terminal access to command and control functions of said management apparatus **(column 3, lines 45-54; column 7, line 16 of Narad).**

t. *Referring to claim 20:*

i. Narad further teaches:

(1) wherein one or more of said management interfaces are virtual management interfaces and further wherein said virtual management interfaces utilize one or more of said user data interfaces for communication of said management traffic and further wherein said virtual management interfaces logically separate said management traffic and user data during communication of said management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

u. *Referring to claim 21:*

i. Narad further teaches:

(1) wherein one or more of said virtual management interfaces utilizes virtual private network technology to separate and secure management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

v. *Referring to claim 22:*

i. Narad teaches a method of handling communications in a computer system having one or more processors, memory, one or more data buses, one or more user data interfaces, and one or more management apparatus wherein said computer system provides one or more device management functions to support remote management activities of said computer system generating management traffic between said device management functions and management function communication partners and further wherein said management apparatus comprising one or more

management processor and one or more management interfaces and further wherein said management apparatus is operatively coupled to one or more of said data buses, the method comprising:

(1) handling said management traffic generated by said device management functions by: (i) routing said management traffic generated by said device management functions from one or more of said processors of said computer system to one or more of said management processors **(column 8, lines 44-54 of Narad);** (ii) testing said management traffic for allowability by said management processor according to a set of filtering rules **(column 7, line 55 through column 8, line 15 of Narad)**; and (iii) forwarding said management traffic that is acceptable to one or more of said management function communication partners using one or more of said management interfaces **(column 24, lines 55-61; column 26, lines 40-48 of Narad);** and

(2) handling said management traffic generated by management function communication partners by: (i) receiving said management traffic generated by said management function communication partners over one or more of said management interfaces **(column 8, lines 23-54 of Narad);** (ii) testing said management traffic for allowability by said management processor according to a set of filtering rules **(column 7, line 55 through column 8, line 15 of Narad)**; and (iii) forwarding said management traffic that is acceptable to one or more of said processors of said computer system for processing **(column 24, lines 55-61; column 26, lines 40-48 of Narad)**;

w. *Referring to claim 23:*

i. This claim has limitations that is similar to those of claim 22, thus it is rejected with the same rationale applied against claim 22 above.

ii. Narad further teaches:

(1) processing said management traffic that is acceptable by one or more of said management processors **(column 4, lines 2-16 of Narad).**

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Sambamurthy et al (US 6,108,713) discloses media access control architectures and network management system (see Title).

b. Smalley (US5,907,862) discloses method and apparatus for the sharing of a memory device by multiple processors (see Title).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached at 571-272-3787. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/Thanhnga B. Truong/
Primary Examiner, Art Unit 2438
September 21, 2010

Notice of References Cited	Application/Control No. 11/946,976	Applicant(s)/Patent Under Reexamination CARLEY, JEFFREY ALAN	
	Examiner THANHNGA B. TRUONG	Art Unit 2438	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,859,841 b2	02-2005	Narad et al.	709/236
*	B	US-6,108,713	08-2000	Sambamurthy et al.	709/250
*	C	US-5,907,862	05-1999	Smalley, Kenneth George	711/163
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Google patents secure management access control for computers embe Search Patents

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Patents Patents **1** - **10** on **secure management access control for computers embedded**. (**0.11** seconds)

› **List view**
Cover view

› **Sort by relevance**
Sort by date (new first)
Sort by date (old first)

› **Any status**
Issued patents
Applications

[APPLICATION] **Secure management access control** for **computers**, **embedded** and card embodiment
US Pat. 10969561 - Filed Oct 20, 2004
The system of claim 1 wherein the network device includes a card reader and the at least one **secure management access** controller is **embedded** in a card **...**

Using **embedded** data with file sharing
US Pat. 7689532 - Filed Jul 20, 2000 - Digimarc Corporation
Once a link with the other **computer** is secure, the other **computer** informs **...** content for importation into the user's **secure management** system after the **...**

Secure document **management** system
US Pat. 6978366 - Filed Oct 17, 2000 - International Business Machines Corporation
Apparatus for **secure management** of data in a **computer** controlled storage system **...** management structures: a unique identifier for said data; **access control ...**

System and method for providing database **access control** in a **secure** ...
US Pat. 6085191 - Filed Mar 25, 1998 - Sun Microsystems, Inc.
33 34 storing an **access control** database, including **access control** objects, **...** **embedded** therein, the **computer** program mechanism comprising: an access **...**

[APPLICATION] **Secure** web browser based system administration for **embedded** platforms
US Pat. 10549466 - Filed Mar 11, 2004
When the browser-based administrator submits the **management** information, an operator packages the **control** information as a string and invokes the **security** **...**

[APPLICATION] Method and system for providing a **secure** multi-user portable database
US Pat. 11173133 - Filed Jul 1, 2005 -
The **access control** module 16 also provides user interface in cooperation with a **security management** module 18 to provide a secure portable database in a **...**

Secure management of authentication information
US Pat. 7490242 - Filed Feb 9, 2004 - International Business Machines Corporation
55 An embodiment of the present invention can also be **embedded** in a **computer** program product, which comprises all the features enabling the implementation **...**

Integrated data entry system including a card proximity sensor for **security** ...
US Pat. 6102286 - Filed Mar 12, 1998 - Hirsch Electronics Corporation
The facility **management** station 140 is a central **computer** to perform **security** **...** the corresponding controller 120,- to configure the **access control** mode. **...**

Apparatus and method for controlling **access** to and interconnection of ...
US Pat. 5483596 - Filed Jan 24, 1994 - Paralon Technologies, Inc.
Alternative tampering detection circuits may employ a magnet 40 **embedded** and oriented **...** An additional layer of **access control management** and **security** is **...**

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Patents Patents **1** - **10** on **plurality of processors for controlling access to device management function**. (**0.10** seconds)

› **List view**
Cover view

› **Sort by relevance**
Sort by date (new first)
Sort by date (old first)

› **Any status**
Issued patents
Applications

System for parallel reading and processing of a file
US Pat. 5745915 - Filed May 14, 1997 - Unisys Corporation
... by said file processing **control**; a **plurality** of input-output **processors** coupled **...** management **control** includes direct **access** storage **device management** **...**

Method and apparatus for the sharing of a memory **device** by multiple **processors**
US Pat. 5907862 - Filed Jul 16, 1996 - Standard Microsystems Corp.
The **access control** circuit is configured such that the first **processor** to **...** **controlling** the **access** of a **plurality of processors** to a shared memory **device**. **...**

Address translation register **control device** in a multiprocessor system
US Pat. 5504872 - Filed May 22, 1995 - NEC Corporation
An address translation register **control device** as recited in claim 1, wherein said **... access** from said requesting one of said **plurality of processors ...**

System for optimally processing a transaction and a query to the same ...
US Pat. 5758149 - Filed Mar 17, 1995 - Unisys Corporation
... management **control** includes direct **access** storage **device management ...** of input-output **processors** and coupled to said **plurality** of direct **access ...**

MVS **device** backup system for a data **processor** using a data storage subsystem ...
US Pat. 6119208 - Filed Apr 18, 1997 - Storage Technology Corporation
Alternatively, when one of the programs that can **access** the **device** writes data to **...** These data storage **management functions** are performed in a manner that **...**

Method and apparatus for **controlling access** by a **plurality** of **processors** to ...
US Pat. 5317749 - Filed Sep 25, 1992 - International Business Machines Corporation
The latch **manager** is therefore BACKGROUND OF THE INVENTION primarily directed to managing **processor access** to the **control** structures. **...**

File-based **access control** for shared hardware devices
US Pat. 7752367 - Filed Dec 22, 2005 - International Business Machines Corporation
The method of claim 1, wherein each of the **plurality of processors ...** on the first **processor**, and wherein **controlling access** to the shared hardware **device** **...**

Channel interface re-connection **controlling** method and file **controlling** ...
US Pat. 6338054 - Filed Jul 6, 1999 - Fujitsu Limited
23) of the devices 3-0 through 3-2 to **control** an **access** operation on each of **...** 24, the TS 13 holds the reserve **management** table 31, the **device** busy report **...**

DATA STORAGE **ACCESS CONTROL** APPARATUS FOR A MULTICOMPUTER SYSTEM
US Pat. 3505651 - Filed Feb 28, 1967
A multicomputer system comprises a **plurality** of data **processors** In

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plurality of processors for controlling access t Search Patents

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2524	((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:11
L2	234	l1 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:12
L3	43	l2 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:15
L4	14	"CARLEY, JEFFREY ALAN"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:48
L5	4	l4 and ((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:49
L6	2	l5 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:49
L7	1	l6 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:49
L8	14	"ENGEDI TECHNOLOGIES, INC"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:49
L9	2	l8 and ((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:50
L10	1	l9 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:50
L11	0	l10 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:50

L12	2085	726/3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:50
L13	10	l12 and ((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:50
L14	2	l13 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:50
L15	1	l14 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:51
L16	1163	726/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:52
L17	7	l16 and ((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:52
L18	3	l17 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:52
L19	1	l18 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:52
L20	457	726/18.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:53
L21	7	l20 and ((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:53
L22	0	l21 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:53
L23	0	l21 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:53
L24	3821	709/236	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:53
L25	18	l24 and ((manag$5 with processors) with (controll$3 with access))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:53

L26	5	l25 and ((manag$5 with interface) with (communicat$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:54
L27	2	l26 and ((manag$5 with processors) with (data with bus$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/09/21 11:54

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5684957		Kondo et al.	11/4/1997	
		5889566		Nguyen	11/18/1997	
		5761428		Sidey	6/2/1998	
		5848161		Luneau et al.	12/8/1998	
		5968176		Nessett et al.	10/19/1999	
		6055575		Paulsen et al.	4/25/2000	
		6079020		Liu	6/20/2000	
		6085243		Fletcher et al.	7/4/2000	
		6108782		Fletcher et al.	8/22/2000	
		6148337		Estberg et al.	11/14/2000	
		6189102		Beser	2/13/2001	
		6243815		Antur et al.	6/5/2001	
		6335927		Elliott et al.	1/1/2002	
		6366585		Dapper et al.	4/2/2002	
		6408392		White	6/18/2002	
		6446200		Ball et al.	9/3/2002	
		6456306		Chin et al.	9/24/2002	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

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Sheet 2 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6473863		Genty et al.	10/29/2002	
		6480955		Dekoning et al.	11/12/2002	
		6484261		Wiegel	11/19/2002	
		6496858		Frailong et al.	12/17/2002	
		6553416		Chari et al.	4/22/2003	
		6560222		Pounds et al.	5/6/2003	
		6578042		Arrouye et al.	6/10/2003	
		6601084		Bhaskaran et al.	7/29/2003	
		6651190		Worley et al.	11/18/2003	
		6654796		Slater et al.	11/25/2003	
		6654891		Borsato et al.	11/25/2003	
		6662221		Gonda et al.	12/9/2003	
		6678826		Kelly et al.	1/13/2004	
		6684241		Sandick et al.	1/27/2004	
		6697947		Matyas, Jr. et al.	2/24/2004	
		6700890		Langley et al.	3/2/2004	
		6711613		Ewing et al.	3/23/2004	
		6751677		Ilnicki et al.	6/15/2004	
		6754831		Brownell	6/22/2004	

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Sheet 3 of 5

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Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

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		6757297		Chin	6/29/2004	
		6894994		Grob et al.	5/17/2005	
		6970924		Chu et al.	11/29/2005	
		6973491		Staveley et al.	12/6/2005	
		6982953		Swales	1/3/2006	
		7024695		Kumar et al.	4/4/2006	
		7028228		Lovy et al.	4/11/2006	
		2001/0056548		Blumberg	12/27/2001	
		2002/0001302		Pickett	1/3/2002	
		2002/0052950		Pillai et al.	5/2/2002	
		2002/0057018		Branscomb et al.	5/16/2002	
		2002/0064149		Elliott et al.	5/30/2002	
		2002/0116485		Black et al.	8/22/2002	
		2002/0162005		Ueda et al.	10/31/2002	
		2002/0165961		Everdell et al.	11/7/2002	
		2002/0029337		Sudia et al.	03/07/2002	
		2003/0023854		Novak et al.	1/30/2003	
		2003/0041136		Cheline et al.	2/27/2003	

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Sheet 4 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		2003/0088513		Gritzmacher et al.	5/8/2003	
		2003/0093244		Corlett et al.	5/15/2003	
		2003/0093563		Young et al.	5/15/2003	
		2003/0097444		Dutta et al.	5/22/2003	
		2003/0156740		Siegel et al.	8/21/2003	
		2003/0221011		Shitano	11/27/2003	
		2004/0003071		Mathew et al.	1/1/2004	
		2004/0104266		Bolle et al.	6/3/2004	
		2004/0153552		Trossen et al.	8/5/2004	

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Sheet 5 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	Unassigned
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Jaehong Park et al.; Towards Usage Control Models: Beyond Traditional Access Control	
		Ravi Sandhu et al.; Usage Control: A Vision for Next Generation Access Control	
		Gail-Joon Ahn et al.; Role-based Authorization Constraints Specification; ACM Transactions on Information and System Security, Vol. 3, No. 4, November 2000, Pages 207-226.	
		Hardware you need FAST; Symbiat (online); Copyright 2002; pages 1-2 specifically page 1.	
		Hari Harikrishnan: Advanced security for data, voice and video access ideal for small offices and teleworkers; introducing Cisco 836 and SOHO 96 Secure Broadband Routers, Cisco.com: March 2003; pages 1-14, specifically pages 4, 6 & 10.	

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

SEARCHED

Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10	TBT

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								
	22	✓								
	23	✓								

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2131
	Examiner Name	n/a
	Attorney Docket Number	ENGEDI 7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

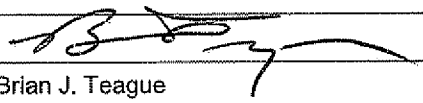
☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2010-08-02
Name/Print	Brian J. Teague	Registration Number	55670

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey A. Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	U.S. Patent Document Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6304973		Williams	10/16/2001	
		6678827		Rothermel et al.	1/13/2004	

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Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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		PCT Search Report and Written Opinion; Application No.: PCT/US04/34707; date of mailing July 8, 2008; 7 pages.	
		A Model for Multilevel Security in Computer Networks; Lu et al.; IEEE Transactions on Software Engineering, Vol. 16., No. 6; June 1990; pp. 647-659;13 pages.	
		Better Security via Smarter Devices; Ganger et al.; 2001 IEEE, pp. 100-105; 6 pages.	

Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

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Doc description: Information Disclosure Statement (IDS) Filed

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First Named Inventor	Carley
Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7099934		2006-08-29	Ewing et al.	
	2	6678826		2004-01-13	Kelly et al.	
	3	6343320		2002-01-29	Fairchild et al.	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	USPTO Office Action; Serial No. 11/611,210; date mailed July 20, 2009.	☐

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Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

Lenovo
Ex. 1004 - Page 147

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2432
Examiner Name	Gilberto Barron Jr.
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		USPTO Office Action; Serial No. 10/461,820; date mailed 7/5/2005.	
		USPTO Office Action; Serial No. 10/461,820; date mailed 2/24/2006.	
		USPTO Office Action; Serial No. 10/461,820 date mailed 6/9/2004.	
		USPTO Office Action; Serial No. 10/969,561; date mailed 11/2/2006.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 3/26/2008.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 10/3/2007.	
		USPTO Office Action; Serial No.10/461,827; date mailed 11/28/2006.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 5/8/2006.	
		USPTO Office Action Serial No. 10/461,827; date mailed 10/5/2008.	

Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

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[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2438
Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6859841		2005-02-22	Narad et al.	
	2	6180713		2000-08-22	Sambamurthy et al.	
	3	5907862		1999-05-25	Smalley	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2438
	Examiner Name	Truong
	Attorney Docket Number	ENGEDI 7

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	USPTO Office Action; Serial No. 11/946,976; date mailed October 1, 2010, 24 pages .	☐

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	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2438
	Examiner Name	Truong
	Attorney Docket Number	ENGEDI 7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature		Date (YYYY-MM-DD)	2010-10-26
Name/Print	John H. Thomas	Registration Number	33460

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Electronic Acknowledgement Receipt

EFS ID:	8702577
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas
Filer Authorized By:	
Attorney Docket Number:	ENGEDI 7
Receipt Date:	26-OCT-2010
Filing Date:	29-NOV-2007
Time Stamp:	13:40:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	IDS.pdf	203293 f9801ba4e176828aca74b889bb4a90e5fe62ebff	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	NPL Documents	NPL.PDF	1650000 385395cb30526234eeed38344d8738d0284db1de	no	24
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National Stage of an International Application under 35 U.S.C. 371

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2438
Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7457858		2008-11-25	Levesque	
	2	7231661		2007-06-12	Villavicencio et al.	
	3	6205466		2001-03-20	Karp et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020078301		2002-06-20	Burnett	
	2	20020133708		2002-09-19	Gudorf et al.	
	3	20040104266		2004-06-03	Bolle et al.	

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Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2438
Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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	1	USPTO Office Action; Serial No. 11/611,210; date mailed October 8, 2010, 24 pages .	☐
	2	USPTO Office Action; Serial No. 12/394,342; date mailed July 1, 2010, 14 pages.	☐

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Art Unit	2438
Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

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☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/John H. Thomas/	Date (YYYY-MM-DD)	2010-10-28
Name/Print	John H. Thomas	Registration Number	33460

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	John H. Thomas
Attorney Docket Number:	ENGEDI 7

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	8721855
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas
Filer Authorized By:	
Attorney Docket Number:	ENGEDI 7
Receipt Date:	28-OCT-2010
Filing Date:	29-NOV-2007
Time Stamp:	14:05:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$180

RAM confirmation Number	350
Deposit Account	502127
Authorized User	RUSSELL,FAITH C

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	updated_IDS.pdf	612674 51e52e084dc8c97fba36317b824371974aa751f0	no	4
Warnings:					
Information:					
2	NPL Documents	nploa.pdf	855720 c5eb92641f6260d13b360db6a06f407eb5a06e33	no	14
Warnings:					
Information:					
3	NPL Documents	20101028140851903.pdf	1141536 98f2409f5fe65b27b44cbba19ee9c12b4c559eb2	no	24
Warnings:					
Information:					
4	Fee Worksheet (PTO-875)	fee-info.pdf	30334 003e91074b5f6b53896c58d2f6418c3d616fccc3	no	2
Warnings:					
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		Total Files Size (in bytes):	2640264		

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jeffrey Alan Carley	
Application No.: 11/946,976	Conf. No.: 1104
Filed: November 29, 2007	Group Art Unit: 2438
Title: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Examiner: Thanhnga B. Truong
Attorney Docket No.: ENGEDI 7	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT

Applicant submits this Amendment and Response to the Office Action mailed October 1, 2010. A three month extension of time is filed concurrently herewith.

Please amend the claims as follows:

Lenovo
Ex. 1004 - Page 163

IN THE CLAIMS:

1. (Currently Amended) In a computer system having one or more processors, memory, one or more data buses, and one or more user data interfaces, ~~a~~ an embedded dedicated management apparatus for securing access to one or more device management functions provided by said computer system or said management apparatus and for providing for secure communication of management traffic between said devise management functions and one or more management function communication partners utilizing one or more communication networks, said management apparatus comprising:

(a) one or more management processors, separate from said computer system's said processors, for controlling access to said device management functions;

(b) one or more network enabled management interfaces for communication with said management processor, said management interfaces operatively coupled to said management processor and capable of being operatively coupled to one or more of said communication networks; and

(c) one or more operative couplings between said management processor and one or more of said data buses;

wherein access to said device management functions and communication of management traffic between said device management functions and said management function communication partners utilizes one or more of said management interfaces and said management processor.

2. (Currently Amended) The management apparatus of claim 1, wherein said device management functions and said management traffic support one or more remote management of said computer system activities selected from the group consisting of remote login, authentication, device configuration, setting of the device clock, updating device software, and patching device software.

Lenovo
Ex. 1004 - Page 164

3. (Original) The management apparatus of claim 1, wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of management apparatus login, management apparatus configuration, updating management apparatus software, patching management apparatus software.

4. (Original) The management apparatus of claim 3, wherein said remote management activities for management apparatus configuration are selected from the group consisting of configuration of access controls, configuration of filtering, configuration of said management interface parameters, configuration of network parameters, and configuration of parameters for network services.

5. (Original) The management apparatus of claim 1, wherein said management function communication partners are selected from the group consisting of network services and administrators.

6. (Original) The management apparatus of claim 5, wherein one or more of said network services are selected from the group consisting of authentication and authorization services, domain name services, logging services, network time services, trap services, and polling services.

7. (Original) The management apparatus of claim 1, wherein a portion of said management traffic comprises communication protocols selected from the group consisting of Simple Network Management Protocol, Hypertext Transfer Protocol, Hypertext Transfer Protocol over Secure Socket Layer, Network Time Protocol, Telnet, Secure Shell, Domain Name System, File Transfer Protocol, Trivial File Transfer Protocol, Syslog, RADIUS, TACACS+, Lightweight Directory Access Protocol (LDAP), and eXtensible Markup Language (XML).

Lenovo
Ex. 1004 - Page 165

8. (Original) The management apparatus of claim 1, wherein a portion of said management traffic comprises proprietary communication protocols.

9. (Original) The management apparatus of claim 1, wherein one or more of said data buses are selected from the group consisting of CPU bus and System bus.

10. (Original) The management apparatus of claim 1, wherein one or more of said device management functions utilize one or more of said management processors.

11. (Original) The management apparatus of claim 1, wherein one or more of said device management functions utilize one or more of said processors of said computer system.

12. (Original) The management apparatus of claim 1, wherein said management apparatus further comprises one or more types of apparatus memory.

13. (Original) The management apparatus of claim 12, wherein one or more of said types of apparatus memory are selected from the group consisting of Flash memory, Random Access Memory (RAM), and Non-volatile Random Access Memory (NVRAM).

14. (Original) The management apparatus of claim 12, wherein said management processor is implemented on a chip that also provides some portion of said apparatus memory.

Lenovo
Ex. 1004 - Page 166

15. (Original) The management apparatus of claim 1, wherein said management apparatus utilizes one or more types of said memory of said computer system.

16. (Original) The management apparatus of claim 15, wherein one or more of said types of said memory of said computer system are selected from the group consisting of Flash memory, Random Access Memory (RAM), Non-volatile Random Access Memory (NVRAM), and Boot Read Only Memory (Boot ROM).

17. (Original) The management apparatus of claim 1, further comprising: one or more network enabled interfaces, wherein said network enabled interfaces are utilized as said management interfaces.

18. (Original) The management apparatus of claim 17, wherein one or more of said network enabled interfaces utilizes virtual private network technology to separate and secure management traffic.

19. (Original) The management apparatus of claim 1, further comprising: a management apparatus console port, wherein said management apparatus console port provides terminal access to command and control functions of said management apparatus.

20. (Original) The management apparatus of claim 1, wherein one or more of said management interfaces are virtual management interfaces and further wherein said virtual management interfaces utilize one or more of said user data interfaces for communication of said management traffic and further wherein said virtual management interfaces logically separate said management traffic and user data during communication of said management traffic.

Lenovo
Ex. 1004 - Page 167

21. (Original) The management apparatus of claim 20, wherein one or more of said virtual management interfaces utilizes virtual private network technology to separate and secure management traffic.

22. (Amended) A method of handling communications in a computer system having one or more processors, memory, one or more data buses, one or more user data interfaces, and one or more embedded management apparatus wherein said computer system provides one or more device management functions to support remote management activities of said computer system generating management traffic between said device management functions and management function communication partners and further wherein said management apparatus comprising one or more dedicated management processor, separate and distinct from said computer system's said processors, and one or more network enabled management interfaces and further wherein said management apparatus is operatively coupled to one or more of said data buses, the method comprising:

(a) handling said management traffic generated by said device management functions by:

(i) routing said management traffic generated by said device management functions from one or more of said processors of said computer system to one or more of said management processors;

(ii) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(iii) forwarding said management traffic that is acceptable to one or more of said management function communication partners using one or more of said management interfaces; and

(b) handling said management traffic generated by management function

Lenovo
Ex. 1004 - Page 168

communication partners by:

(i) receiving said management traffic generated by said management function communication partners over one or more of said management interfaces;

(ii) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(iii) forwarding said management traffic that is acceptable to one or more of said processors of said computer system for processing;

23. (Amended) A method of handling communications in a computer system having one or more processors, memory, one or more data buses, one or more user data interfaces, and one or more embedded management apparatus wherein said management apparatus provides one or more device management functions to support remote management activities of said computer system generating management traffic between said device management functions and management function communication partners and further wherein said management apparatus comprising one or more dedicated management processor-, separate and distinct from said computer system's said processors, and one or more network enabled management interfaces and further wherein said management apparatus is operatively coupled to one or more of said data buses, the method comprising:

(a) handling said management traffic generated by said device management functions by:

(i) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(ii) forwarding said management traffic that is acceptable to one or more of said management function communication partners using one or more of said management interfaces; and

Lenovo
Ex. 1004 - Page 169

(b) handling said management traffic generated by management function communication partners by:

(i) receiving said management traffic generated by said management function communication partners over one or more of said management interfaces;

(ii) testing said management traffic for allowability by said management processor according to a set of filtering rules; and

(iii) processing said management traffic that is acceptable by one or more of said management processors.

Lenovo
Ex. 1004 - Page 170

REMARKS

Applicant submits this Amendment and Response to the Office Action mailed October 1, 2010. Applicant apologies in advance regarding the lengthy nature of this response. As the Examiner is aware, this is fairly technical subject matter, and Applicant necessarily must respond in a very specific and equally technical manner. For organization purposes, Applicant will respond to the issues raised in the Office Action in order. Accordingly, as is evident, the first issue regarding the drawings is discussed. Then there is the double patenting rejection, and finally there is the substantive anticipation rejection of the claims.

The drawings have been objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include reference signs and numbers. Applicant respectfully traverses this objection. 37 CFR 1.84(p)(5) states that: "Reference characters not mentioned in the description shall not appear in the drawings. Reference characters mentioned in the description must appear in the drawings." There is no requirement in 37 CRF 1.84(p)(5), or in any portion of section 1.84(p), that reference numbers be used. Rather, section 1.84(p) merely specifies how reference numbers should appear if they are used at all. Applicant submits that the detailed description discussion and references to the figures as written is clear and enabling to those of skill in the art. The insertion of numerous reference numbers in the detailed description and drawings is unnecessary and could be confusing.

Lenovo
Ex. 1004 - Page 171

The plain meaning of section 1.84(p)(5) is that reference numbers that are used in the drawings should be used in the specification and vice versa. Applicant has reviewed the specification and drawings and cannot find any reference numbers that appear in the specification but not in the drawings, nor can Applicant find any reference numbers that appear in the drawings but not in the specification. Therefore, Applicant believes that the application as filed satisfies the requirements of 37 CFR 1.84(p)(5) and traverses this objection.

Applicant next turns to the double patenting rejection. Filed concurrently with this Amendment and Response is a Terminal Disclaimer relating to U.S. Patent No. 7,325,140. In view of this Terminal Disclaimer, Applicant submits that the double patenting rejection is traversed

Substantively, all of the claims are being rejected as anticipated under 35 U.S.C. § 102(e) by Narad. In view of the foregoing Amendments, and for one or more of the following reasons, Applicant submits that all the claims of the present application are allowable. More than simply argue the amendments to the independent claims, Applicant is addressing most dependent claims as well. The response herein shall follow the outline and structure of the current Office Action. In order so that this response may be easily followed, the sections beginning on page 4, paragraph 6 of the Office Action are being incorporated herein so that everything is clear and follows in an orderly fashion.

Lenovo
Ex. 1004 - Page 172

a. Referring to Claim 1:

i. Narad teaches in a computer system having one or more processors, memory, one or more data buses, and one or more user data interfaces, a management apparatus for securing access to one or more device management functions provded by said computer system or said management apparatus and for providing for secure communication of management traffic between said devise management functions and one or more management function communication partners utilizing one or more communication networks, said management apparatus comprising:

(1) one or more management processors for controlling access to said device management functions (See Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad);

(2) One or more management interfaces for communication and said management processor, said management interfaces operatively coupled to said management processor and capable of being operatively coupled to one or more of said communication networks (See Figure 3, elements 202 and 206; column 5, line 63 through column 6, line 9 of Narad); and

(3) One or more operative couplings between said management processor and one or more of said data buses (See Figure 4, element 324, column 7, lines 49-58 of Narad);

(4) Wherein access to said device management functions and communication of management traffic between said device management functions and said management function communication partners utilizes one or more of said management interfaces and said management processor (column 1, lines 51-57; column 4, lines 12-39 of Narad).

Narad discloses a general-purpose programmable packet processing platform that can be used to implement many network infrastructure applications and could conceivably be used to implement a dedicated embedded management apparatus for controlling access to the device management functions of the computer system in which

Lenovo
Ex. 1004 - Page 173

the apparatus is embedded, but Narad does not at all disclose the use of that packet processing platform or any platform for such a purpose. However, for the sake of clarity, Applicant's claims have been amended to make it clear that applicant is referring to a management apparatus dedicated to device management and implemented with its own dedicated processor.

Narad Figure 1 illustrates how the policy engine of Narad's invention relates to the application processor of a computer system, but it does not illustrate the use of that policy engine for device management of the application processor nor the use of the policy engine for device management of the policy engine itself. Narad column 4, lines 17-25 discloses a general purpose platform that can be used for a variety of applications but does not disclose a specialized device management application. Narad column 6, line 4 discloses that the policy engine resolver provides an interface for the management of the policy engine that can be used in configuring the policy engine for the desired application, but again it does not also disclose a specialized device management application. Narad also does not disclose the use of the policy engine as a means of implementing an application to control access to device management functions of a computer system.

Narad Figure 3, element 202 is an internal interface in the policy engine to an optional cryptography coprocessor and element 206 is an internal interface in the policy engine to the policy processor. Applicant has amended applicant's claims to make it clear the claims are referring to network interfaces. Narad column 5, line 6 through

Lenovo
Ex. 1004 - Page 174

column 6, line 9 describes the policy engine resolver and plumber functionality, which runs on the policy processor (Figure 3, element 244). Among other things the resolver does provide a user interface for management and configuration of the policy engine and the plumber does support remote access to the policy engine, but Narad does not describe the use of network interfaces for device management.

Narad column 1, lines 51-57 mentions network infrastructure applications in general and column 4, lines 12-39 discloses methods of accelerating network infrastructure applications, but neither disclosure deals with any specific application such as controlling device management or device management functions communicating with administrators or services in the network.

b. Referring to Claim 2:

i. Narad further teaches:

(1) wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of remote login, authentication, device configuration, setting of the device clock, updating device software, and patching device software **(column 62, line 62 through column 63, line 2 of Narad).**

Applicant's disclosed device management apparatus is embedded in a larger computer system and the list in claim 2 is a list of device management functions for managing the system as a whole. Narad discloses remote login, authentication, and configuration of the policy engine, but not the overall system. Claim 2 has been amended to make it clear applicant is listing device management functions for the entire computer system.

Lenovo
Ex. 1004 - Page 175

c. Referring to Claim 3:

i. Narad further teaches:

(1) wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of management apparatus login, management apparatus configuration, updating management apparatus software, patching management apparatus software **(column 62, line 62 through column 63, line 2 of Narad).**

Narad describes access to the policy engine for the purpose of managing the configuration of the policy engine. Therefore, if Narad's policy engine is utilized in an implementation of applications management apparatus, then that would overlap with this claim. However, the amendments to claim 1 distinguish Narad so this claim should be allowed as well.

d. Referring to Claim 4:

i. Narad further teaches:

(1) wherein said remote management activities for management apparatus configuration are selected from the group consisting of configuration of access controls, configuration of filtering, configuration of said management interface parameters, configuration of network parameters, and configuration of parameters for network services **(column 61, line 62 through column 62, line 2 of Narad).**

Narad column 61, line 62 through column 62, line 2 discloses a preferred structure of the policy engine for processing network traffic and does not seem to have any specific disclosure for the specific function of controlling the flow of device management traffic as claimed.

Lenovo
Ex. 1004 - Page 176

f. Referring to Claim 6:

i. Narad further teaches:

(1) wherein one or more of said network services are selected from the group consisting of authentication and authorization services, domain name services, logging services, network time services, trap services, and polling services **(column 62, line 62 through column 63, line 2 of Narad)**.

Narad column 62, line 62 through column 63, line 2 discloses remote access to the plumber for purposes of configuring the policy engine but does not discuss anything concerning the list of network services identified in the list of claim 6. While Narad does mention authentication of remote access, Narad does not at all indicate this is accomplished via a network based authentication server. It is reasonable to assume Narad is referring to simple password protection.

g. Referring to Claim 7:

i. Narad further teaches:

(1) wherein a portion of said management traffic comprises communication protocols selected from the group consisting of Simple Network Management Protocol, Hypertext transfer Protocol, Hypertext Transfer Protocol over Secure Socket Layer, Network Time Protocol, Telnet, Secure Shell, Domain Name System, File Transfer Protocol, Trivial File Transfer Protocol, Syslog, RADIUS, TACACS+, Lightweight Directory Access Protocol (LDAP), and eXtensible Markup Language (XML) **(column 72, line 45 of Narad, wherein Diagram 16 shows TeinetlFTP example)**.

Narad Diagram 16 is part of a description of a language for specifying packet filtering criteria for traffic flows. It is not disclosing the use of the flows for device management.

Lenovo
Ex. 1004 - Page 177

h. Referring to Claim 8:

i. Narad further teaches:
(1) wherein a portion of said management traffic comprises proprietary communication protocols **(column 8, lines 44-54 of Narad)**.

Narad column 8, lines 44-54 discusses the processing of arbitrary traffic flows but does not discuss the use of proprietary protocols at all let alone the use of proprietary protocols for network management.

k. Referring to Claim 11:

i. Narad further teaches:
(1) wherein one or more of said device management functions utilize one or more of said processors of said computer system **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

These references to Narad concern management of resources on the policy engine processer, NOT utilizing the management processor to control access to the device management functions running on the host (AP) processor which is where claim 11 is directed.

n. Referring to Claim 14:

i. Narad further teaches:
(1) wherein said management processor is implemented on a chip (i.e., peer's device) that also provides some portion of said apparatus memory **(column 8, line 39 of Narad)**.

Narad column 8, line 38 does not specify memory on the processor chip but rather on the policy engine card. The policy engine processor is Figure 3, element 244

Lenovo
Ex. 1004 - Page 178

whereas the memory is on elements 260 and 270. Applicants claim 14 refers to memory on the processor chip itself.

o. Referring to Claim 15:

i. Narad further teaches:

(1) wherein said management apparatus utilizes one or more types of said memory of said computer system **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

Narad Figure 1 doesn't disclose memory at all. Nor does Narad column 4, lines 17-25 nor column 6, line 4 disclose anything about what memory is used. Applicant claim 15 is not referring to memory that is a part of the management apparatus, but rather memory that is a part of the larger computer system.

p. Referring to Claim 16:

i. Narad further teaches:

(1) wherein one or more of said types of said memory of said computer system are selected from the group consisting of Flash memory, Random Access Memory (RAM), Non-volatile Random Access Memory (NVRAM), and Boot Read Only Memory (Boot ROM) **(column 4, line 30; column 7, lines 37-38; column 12, lines 6-21 of Narad)**.

The references specify SDRAM for the Policy engine memory but does not address memory for the larger system (such as the AP) at all. Applicant claim 16 is specifying types of memory for the larger computer system, not for the management processor.

Lenovo
Ex. 1004 - Page 179

q. Referring to Claim 17:

i. Narad further teaches:

(1) one or more network enabled interfaces, wherein said network enabled interfaces are utilized as said management interfaces **(column 2, lines 14-16; column 8, line 48 of Narad)**.

The Narad references deal with network interfaces, but do not address the use of network interfaces for device management traffic.

r. Referring to Claim 18:

i. Narad further teaches:

(1) wherein one or more of said network enabled interfaces utilizes virtual private network technology to separate and secure management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

Narad column 1, lines 63-64 discloses the need to support VPN applications. Column 2, lines 14-16 discusses the implementation of network interfaces on the policy engines and communications between the host processes (AP) and the policy engine. It does not discuss the separation of management traffic from non-management traffic through the use of VPN technology.

s. Referring to Claim 19:

i. Narad further teaches:

(1) further comprising: a management apparatus console port, wherein said management apparatus console port provides terminal access to command and control functions of said management apparatus **(column 3, lines 45-54; column 7, line 16 of Narad)**.

Lenovo
Ex. 1004 - Page 180

In the networking field, console ports are a specific type of port, typically a serial connection that does not support a networking protocol at all but rather simply a terminal program like VT-100. The definition of a console port is well understood in the networking industry. Narad column 3, lines 45-54 discusses the disadvantages of implementing network infrastructure applications on switches and routers and makes reference to switching ports but does not discuss console ports. As well, Narad column 7, line 16 refers to fast Ethernet ports which are very different from console ports.

t. Referring to Claim 20:

i. Narad further teaches:

(1) wherein one or more of said management interfaces are virtual management interfaces and further wherein said virtual management interfaces utilize one or more of said user data interfaces for communication of said management traffic and further wherein said virtual management interfaces logically separate said management traffic and user data during communication of said management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad).**

Narad column 1, lines 63-64 discloses the need to support VPN applications. Column 2, lines 14-16 discusses the implementation of network interfaces on the policy engines and communications between the host processes (AP) and the policy engine. Column 7, lines 30-36 discusses the enabling of VPNs for third-party applications including network management and column 8, line 48 discusses support for third party NICs on the overall system PCI bus. But none of these references discuss the concept of

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Ex. 1004 - Page 181

a virtual management interface for device management of the overall system which is the subject of applicant claim 20.

u. Referring to Claim 21:

i. Narad further teaches:

(1) wherein one or more of said virtual management interfaces utilizes virtual private network technology to separate and secure management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad).**

Narad column 1, lines 63-64 discloses the need to support VPN applications. Column 2, lines 14-16 discusses the implementation of network interfaces on the policy engines and communications between the host processors (AP) and the policy engine. Column 7, lines 30-36 discusses the enabling of VPNs for third-party applications including network management and column 8, line 48 discusses support for third party NICs on the overall system PCI bus. But none of these references discuss the use of VPN technology to separate device management traffic from the user data traffic that is also using the network interfaces which are the subject of applicant claim 21.

v. Referring to Claim 22:

i. Narad teaches a method of handling communications in a computer system having one or more processors, memory, one or more data buses, one or more user data interfaces, and one or more management apparatus wherein said computer system provides one or more device management functions to support remote management activities of said computer system generating management traffic between said device management functions and management function communication partners and further wherein said management apparatus comprising one or more management processor and one or more management interfaces and further wherein said management apparatus is

Lenovo
Ex. 1004 - Page 182

operatively coupled to one or more of said data buses, the method comprising:

(1) handling said management traffic generated by said device management functions by: (i) routing said management traffic generated by said device management functions from one or more of said processors of said computer system to one or more of said management processors **(column 8, lines 44-54 of Narad)**; (ii) testing said management traffic for allowability by said management processor according to a set of filtering rules **(column 7, line 55 through column 8, line 15 of Narad)**; and (iii) forwarding said management traffic that is acceptable to one or more of said management function communication partners using one or more of said management interfaces **(column 24, lines 55-61; column 26, lines 40-48 of Narad)**; and

(2) handling said management traffic generated by management function communication partners by: (i) receiving said management traffic generated by said management function communication partners over one or more of said management interfaces **(column 8, lines 23-54 of Narad)**; (ii) testing said management traffic for allowability by said management processor according to a set of filtering rules **(column 7, line 55 through column 8, line 15 of Narad)**; and (iii) forwarding said management traffic that is acceptable to one or more of said processors of said computer system for processing **(column 24, lines 55-61; column 26, lines 40- 48 of Narad)**;

Narad column 8, lines 44-55 deals with the general process of packets received by the PE being forwarded to the AP. There is no discussion of the type of policy that would be used to make the forwarding decision. The applicant's claim 22 would be the equivalent of a flow in the opposite direction, from the AP to the PE and is specifically specified as a device management flow. Narad does not disclose such a flow.

Narad column 7, line 55 through column 8, line 15 discusses a preferred architecture of PEs in a larger computer system but does not at all discuss filtering rules although other sections of Narad do discuss specification of filtering rules but even there they do not discuss filtering rules specific to device management.

Lenovo
Ex. 1004 - Page 183

Narad column 24, lines 55-61 discusses the buffer used for sending a packet and the pointers into that buffer and Narad column 26, lines 40-48 discusses different components within the larger computer system which can be generating packets to be transmitted. Neither reference provides any insight as to possible types of packets, any indication of filtering of the packets, or any discussion of the destination of those packets, all of which are components of applicant's claim 22.

Claim 22 has been amended to make it clear that the claim is addressing a device management aparatus with a dedicated processor and with network enabled management interfaces.

Narad column 8, lines 23-54 discusses the packet flow of a packet received from a network interface, but it doesn't provide any specification for the type of traffic or the sources of the traffic both of which are incorporated into applicant's claim 22.

Narad column 7, line 55 through column 8, line 15 discusses a preferred architecture of PEs in a larger computer system but does not at all discuss filtering rules although other sections of Narad do discuss specification of filtering rules but even there they do not discuss filtering rules specific to device management.

Narad column 24, lines 55-61 discusses the buffer used for sending a packet and the pointers into that buffer and Narad column 26, lines 40-48 discusses different components within the larger computer system which can be generating packets to be transmitted. Applicant's claim 22 at this point is discussing packets received for device management purposes.

Lenovo
Ex. 1004 - Page 184

w. Referring to Claim 23:

i. This claim has limitations that is similar to those of claim 22, thus it is rejected with the same rationale applied against claim 22 above.

ii. Narad further teaches:

(1) processing said management traffic that is acceptable by one or more of said management processors **(column 4, lines 2-16 of Narad)**.

Claim 23 has been amended paralleling the amendment to claim 22. The arguments for the allowance of claim 22 also apply to claim 23.

Narad column 4, lines 2-16 does not discuss at all filtering of packets which is implied by applicant's claim 23 usage of the phrase *management traffic that is acceptable*. Nor does Narad discuss anywhere packet filtering specific for device management.

* * * * * * * * * * * * * * * * *

As is evident from the foregoing, Applicant has responded fully to all of the novelty rejections. Moreover, Applicant has noted why the current invention would not be obvious in view of the cited referenced in any event. For any one or more of these reasons, and in view of the foregoing amendments, Applicant submits that the claims are in condition for allowance. Favorable action is requested hereon.

Lenovo
Ex. 1004 - Page 185

The Commissioner is hereby authorized to charge any deficiencies in payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-2127.

Respectfully submitted,

Date: March 31, 2011

John H. Thomas
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Lenovo
Ex. 1004 - Page 186

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) ENGEDI 7

In re Application of: Jeffrey Alan Carley

Application No.: 11/946,976

Filed: November 29, 2007

For: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

The owner*, Engedi Technologies, Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term **prior patent** No. 7,325,140 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

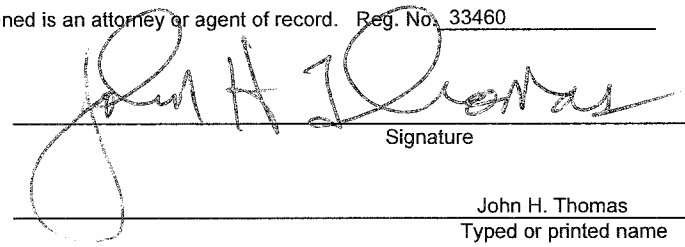
expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
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2. ☑ The undersigned is an attorney or agent of record. Reg. No. 33460



Signature

3/31/2011
Date

John H. Thomas
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Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	John H. Thomas
Attorney Docket Number:	ENGEDI 7

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with $0 paid	2253	1	555	555

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory or terminal disclaimer	2814	1	70	70
		Total in USD ($)		**625**

Electronic Acknowledgement Receipt

EFS ID:	9779055
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Correspondence Address:	Brian J. Teague John H. Thomas, P.C. 536 Granite Avenue - Richmond VA 23226 US 8043448130 -
Filer:	John H. Thomas
Filer Authorized By:	
Attorney Docket Number:	ENGEDI 7
Receipt Date:	31-MAR-2011
Filing Date:	29-NOV-2007
Time Stamp:	10:40:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$625

RAM confirmation Number	10802
Deposit Account	502127
Authorized User	RUSSELL,FAITH C

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment Copy Claims/Response to Suggested Claims	20110331082522784.pdf	6485808 3c970b80371ba8419c10de3abefaa5692e015fcc	no	24
Warnings:					
Information:					
2	Terminal Disclaimer Filed	20110331082529450.pdf	481709 caeb65762ce823ca547654486f584b12b80e688a	no	1
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	32251 12c548ec967a1110bc0a1be65ecf820c9a986077	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	6999768		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/946,976	11/29/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 03/31/2011

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 23	Minus	** 23	= 0	X $26 =	0	OR	X $ =	
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $110 =	0	OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/MARGARET BYARS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
11/946,976		2438	

OC000000047009908

Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 31704 on 04/06/2011

- **Correspondence Address**
- **Maintenance Fee Address**
- **Power of Attorney Address**

The address of record for Customer Number 31704 is:

31704
Thomas & Karceski, P.C.
536 GRANITE AVENUE
RICHMOND, VA 23226

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	ENGEDI 7	1104

31704 7590 06/17/2011

Thomas & Karceski, P.C.
536 GRANITE AVENUE
RICHMOND, VA 23226

EXAMINER	
TRUONG, THANHNGA B	
ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
06/17/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@ip-counsel.net

Office Action Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *31 March 2011*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-23* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *22 and 23* is/are allowed.

6)☒ Claim(s) *1-21* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *10/26/10; 10/28/10*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the communication filed on March 31, 2011. Claims 1-23 are pending. At this time, claims 1-21 are still rejected.

In preparing for this office action, Examiner has pointed out particular references contained in the prior art(s) of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claims, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully each reference in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Information Disclosure Statement

2. The information disclosure statement (IDS) filed on October 26, 2010 and October 28, 2010 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Response to Arguments

3. Applicant's arguments filed March 31, 2011, with respect to the rejection(s) of Drawings and Double Patenting have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Applicant's arguments filed March 31, 2011, with respect to the rejection(s) of claims 1-21 under 35 USC 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Falik et al (US 6,532,507 B1).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narad et al (US 6,859,841 B2), and further in view of Falik et al (US 6,532,507 B1).

a. *Referring to claim 1:*

i. Narad teaches in a computer system having one or more processors, memory, one or more data buses, and one or more user data interfaces, a management apparatus for securing access to one or more device management functions provided by said computer system or said management apparatus and for providing for secure communication of management traffic between said devise management functions and one or more management function communication partners utilizing one or more communication networks, said management apparatus comprising:

(1) one or more management processors **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**;

(2) one or more management interfaces for communication with said management processor, said management interfaces operatively coupled to said management processor and capable of being operatively coupled to one or more of said communication networks **(see Figure 3, elements 202 and 206; column 5, line 63 through column 6, line 9 of Narad);** and

(3) one or more operative couplings between said management processor and one or more of said data buses **(see Figure 4, element 324; column 7, lines 49-58 of Narad);**

(4) wherein access to said device management functions and communication of management traffic between said device management functions and said management function communication partners utilizes one or more of said management interfaces and said management processor **(column 1, lines 51-57; column 4, lines 12-39 of Narad).**

ii. Although Narad teaches the claimed subject matter, Narad is silent on the capability of showing one or more management processors for controlling access to said device management functions. On the other hand, Falik teaches:

(1) one or more management processors for controlling access to said device management functions (column 4, lines 27-48 of Falik).

iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:

(1) have modified the invention of Narad with the teaching of Falik to enhance accessing between device functions/applications.

iv. The ordinary skilled person would have been motivated to:

(1) have modified the invention of Narad with the teaching of Falik to to provide the faster core continuous access to the shared device for multiple transactions without causing the slower core or its peripherals to be starved. **(column 1, lines 27-30 of Falik).**

b. *Referring to claim 2:*

i. Narad further teaches:

(1) wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of remote login, authentication, device configuration, setting of the device clock, updating device software, and patching device software **(column 62, line 62 through column 63, line 2 of Narad).**

c. *Referring to claim 3:*

i. Narad further teaches:

(1) wherein said device management functions and said management traffic support one or more remote management activities selected from the group consisting of management apparatus login, management apparatus configuration, updating management apparatus software, patching management apparatus software **(column 62, line 62 through column 63, line 2 of Narad).**

d. *Referring to claim 4:*

i. Narad further teaches:

(1) wherein said remote management activities for management apparatus configuration are selected from the group consisting of configuration of access controls, configuration of filtering, configuration of said management interface parameters, configuration of network parameters, and configuration of parameters for network services **(column 61, line 62 through column 62, line 2 of Narad)**.

e. *Referring to claim 5:*

i. Narad further teaches:

(1) wherein said management function communication partners are selected from the group consisting of network services and administrators **(column 62, line 64 of Narad).**

f. *Referring to claim 6:*

i. Narad further teaches:

(1) wherein one or more of said network services are selected from the group consisting of authentication and authorization services, domain name services, logging services, network time services, trap services, and polling services **(column 62, line 62 through column 63, line 2 of Narad).**

g. *Referring to claim 7:*

i. Narad further teaches:

(1) wherein a portion of said management traffic comprises communication protocols selected from the group consisting of Simple Network Management Protocol, Hypertext transfer Protocol, Hypertext Transfer Protocol over Secure Socket Layer, Network Time Protocol, Telnet, Secure Shell, Domain Name System, File Transfer Protocol, Trivial File Transfer Protocol, Syslog, RADIUS, TACACS+, Lightweight Directory Access Protocol (LDAP), and eXtensible Markup Language (XML) **(column 72, line 45 of Narad, wherein Diagram 16 shows Telnet/FTP example).**

h. *Referring to claim 8:*

i. Narad further teaches:

(1) wherein a portion of said management traffic comprises proprietary communication protocols **(column 8, lines 44-54 of Narad).**

i. *Referring to claim 9:*

i. Narad further teaches:

(1) wherein one or more of said data buses are selected from the group consisting of CPU bus and System bus **(see Figure 4, element 324; column 7, lines 49-58 of Narad).**

j. *Referring to claim 10:*

i. Narad further teaches:

(1) wherein one or more of said device management functions utilize one or more of said management processors **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

k. *Referring to claim 11:*

i. Narad further teaches:

(1) wherein one or more of said device management functions utilize one or more of said processors of said computer system **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

l. *Referring to claim 12:*

i. Narad further teaches:

(1) wherein said management apparatus further comprises one or more types of apparatus memory **(column 4, line 30; column 7, lines 37-38 of Narad).**

m. *Referring to claim 13:*

i. Narad further teaches:

(1) wherein one or more of said types of apparatus memory are selected from the group consisting of Flash memory, Random Access Memory (RAM), and Non-volatile Random Access Memory (NVRAM) **(column 4, line 30; column 7, lines 37-38; column 12, lines 6-21 of Narad).**

n. *Referring to claim 14:*

i. Narad further teaches:

(1) wherein said management processor is implemented on a chip (i.e., peer's device) that also provides some portion of said apparatus memory **(column 8, line 39 of Narad).**

o. *Referring to claim 15:*

i. Narad further teaches:

(1) wherein said management apparatus utilizes one or more types of said memory of said computer system **(see Figure 1, elements 4 and 6; column 4, lines 17-25 and column 6, line 4 of Narad)**.

p. *Referring to claim 16:*

i. Narad further teaches:

(1) wherein one or more of said types of said memory of said computer system are selected from the group consisting of Flash memory, Random Access Memory (RAM), Non-volatile Random Access Memory (NVRAM), and Boot Read Only Memory (Boot ROM) **(column 4, line 30; column 7, lines 37-38; column 12, lines 6-21 of Narad)**.

q. *Referring to claim 17:*

i. Narad further teaches:

(1) one or more network enabled interfaces, wherein said network enabled interfaces are utilized as said management interfaces **(column 2, lines 14-16; column 8, line 48 of Narad).**

r. *Referring to claim 18:*

i. Narad further teaches:

(1) wherein one or more of said network enabled interfaces utilizes virtual private network technology to separate and secure management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

s. *Referring to claim 19:*

i. Narad further teaches:

(1) further comprising: a management apparatus console port, wherein said management apparatus console port provides terminal access to command and control functions of said management apparatus **(column 3, lines 45-54; column 7, line 16 of Narad).**

t. *Referring to claim 20:*

i. Narad further teaches:

(1) wherein one or more of said management interfaces are virtual management interfaces and further wherein said virtual management interfaces utilize one or more of said user data interfaces for communication of said management traffic and further wherein said virtual management interfaces logically separate said management traffic and user data during communication of said management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

u. *Referring to claim 21:*

i. Narad further teaches:

(1) wherein one or more of said virtual management interfaces utilizes virtual private network technology to separate and secure management traffic **(column 1, lines 63-64; column 2, lines 14-16; column 7, lines 30-36; column 8, line 48 of Narad)**.

Allowable Subject Matter

6. Claims 22-23 are allowed.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached at 571-272-3787. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/Thanhnga B. Truong/
Primary Examiner, Art Unit 2438
June 3, 2011

Notice of References Cited	Application/Control No. 11/946,976	Applicant(s)/Patent Under Reexamination CARLEY, JEFFREY ALAN	
	Examiner THANHNGA TRUONG	Art Unit 2438	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,532,507 B1	03-2003	Falik et al.	710/107
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

SEARCHED

Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT
710	17, 107, 108	6/3/11	TBT

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10; 6/3/11	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10; 6/3/11	TBT

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
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	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							
	21	✓	✓							
	22	✓	=							
	23	✓	=							

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2438
Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7457858		2008-11-25	Levesque	
	2	7231661		2007-06-12	Villavicencio et al.	
	3	6205466		2001-03-20	Karp et al.	

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	1	20020078301		2002-06-20	Burnett	
	2	20020133708		2002-09-19	Gudorf et al.	
	3	20040104266		2004-06-03	Bolle et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2438
	Examiner Name	Truong
	Attorney Docket Number	ENGEDI 7

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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	1	USPTO Office Action; Serial No. 11/611,210; date mailed October 8, 2010, 24 pages .	☐
	2	USPTO Office Action; Serial No. 12/394,342; date mailed July 1, 2010, 14 pages.	☐

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Examiner Signature	/Thanhnga Truong/	Date Considered	06/03/2011

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Issued patents
Applications

I/O Control system having a plurality of **access** enabling bits for ...
US Pat. 5146565 - Filed Jun 19, 1991 - Intel Corporation
I/O CONTROL SYSTEM HAVING A PLURALITY OF **ACCESS** ENABLING BITS FOR **CONTROLLING**
ACCESS TO SELECTIVE PORTS OF AN I/O **DEVICE** 5 This is a continuation of **...**

[APPLICATION] System and method for **controlling access**
US Pat. 10073374 - Filed Feb 12, 2002 - Xerox Corporation
Additionally, **controlling access** to particular **device** features results in **...**
although CPU 30 may comprise other **processors** such as a PowerPC G4® or a **...**

[APPLICATION] Storage **device**
US Pat. 12155703 - Filed Jun 9, 2008
[0051] The storage **device** 1 shown in FIG. 1 has both the SAN interfaces **...** A
file **access** control CPU 11001 is a **processor for controlling** file **access**. **...**

[APPLICATION] SYSTEM AND METHOD OF **CONTROLLING ACCESS** TO A **DEVICE**
US Pat. 11948952 - Filed Nov 30, 2007 - INFINEON TECHNOLOGIES AG
The key can be used to enable **access** to or unlock the corresponding **device** 106.
[0028] In various embodiments illustrated herein, **processor** 108 of first **...**

Controlling power and **access** of wireless **device** to base stations which use ...
US Pat. 5784360 - Filed Mar 3, 1997 - Lucent Technologies Inc.
The **processor** 384 preferably produces a probability signal in the form of a **....**
A base station for **controlling access** by wireless devices of mixed types to **...**

Digital signal **processor** and method for prioritized **access** by multiple core ...
US Pat. 6532507 - Filed May 25, 2000 - National Semiconductor Corporation
Another aspect of the invention is a method for **controlling access** by a first
processor and a second **processor** to a shared **device** (eg, **...**

Device for **controlling access** to a secured memory, comprising a synchronous ...
US Pat. 7844769 - Filed Aug 26, 2004 - STMicroelectronics SA
Field of the Invention The present invention relates to a method and a **device**
for **controlling access** to a data memory, by using attributes defin- 1 0 ing **...**

[APPLICATION] SYSTEMS AND METHODS FOR **CONTROLLING** SERVICE **ACCESS** ON A WIRELESS ...
US Pat. 11683343 - Filed Mar 7, 2007 - QUALCOMM Incorporated
Controlling access to the service may include prohibiting **access** and/or **...** The
device includes a computer platform including a **processor** and a memory. **...**

[APPLICATION] Method, apparatus and system for **controlling access** to a cabinet
US Pat. 11021285 - Filed Dec 23, 2004
The user **access device** includes a user interface, a data storage **device** and a
processor. The user interface receives user **access** data. **...**

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2	"6532507".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 15:34
L3	16	("3967246" | "4933846" | "4964034" | "5471590" | "5524235" | "5539916" | "5611075" | "5619720" | "5634076" | "5706446" | "5752272" | "5872939" | "6115767" | "6269418" | "6460095" | "6463482"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/03 16:14
L4	16	"CARLEY, JEFFREY ALAN"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:18
L5	14	"ENGEDI TECHNOLOGIES, INC"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:18
L6	5	l4 and ((processors with (controll$3 with access)) with (device or unit or component))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:20
L7	2	l5 and ((processors with (controll$3 with access)) with (device or unit or component))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:20
L8	16930	((processors with (controll $3 with access)) with (device or unit or component))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:20
L9	740	l8 and ((network with interface) with (coupl$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:22
L10	121	l9 and ((coupl$3 with processors) with (data with buses))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:24
L11	1	l10 and ((manag$3 with traffic) with (network with interface))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:40
L12	2055	(710/17,107,108).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:44

L13	130	l12 and ((processors with (controll$3 with access)) with (device or unit or component))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:44
L14	1	l13 and ((network with interface) with (coupl$3 with processors))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:44
L15	32	l13 and ((coupl$3 with processors) with (data with buses))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:44
L16	0	l15 and ((manag$3 with traffic) with (network with interface))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/06/03 17:45

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Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/TBT/	1	6859841		2005-02-22	Narad et al.	
/TBT/	2	6180713		2000-08-22	Sambamurthy et al.	
/TBT/	3	5907862		1999-05-25	Smalley	

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	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2438
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/TBT/	1	USPTO Office Action; Serial No. 11/946,976; date mailed October 1, 2010, 24 pages .	☐

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Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	11/946,976	CARLEY, JEFFREY ALAN	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 3/31/11	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
Janice Ford

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I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

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as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

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☐ Firm or Individual Name			
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Assignee Name and Address:

Infinite Bay Telecom Limited Liability Company
160 Greentree Drive, Suite 101
Dover, Delaware 19904

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	Dottie Smith	Date	9-2-2011
Name	Dottie Smith	Telephone	
Title	Authorized Person for Infinite Bay Telecom Limited Liability Company		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Dottie Smith

Dottie Smith, Authorized Person for Infinite Bay Telecom Limited Liability Company

9-2-2011

[date]

Electronic Acknowledgement Receipt

EFS ID:	11063158
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	31704
Filer:	Dean M. Munyon/Dawn DeLuca
Filer Authorized By:	Dean M. Munyon
Attorney Docket Number:	ENGEDI 7
Receipt Date:	27-SEP-2011
Filing Date:	29-NOV-2007
Time Stamp:	19:40:08
Application Type:	Utility under 35 USC 111(a)

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1	Assignee showing of ownership per 37 CFR 3.73(b).	sb0096.pdf	427974 ac1e3bc7631b9c7cfa3603903b565c43be25a9d4	no	2

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: INFINITE BAY TELECOM LIMITED LIABILITY COMPANY

Application No./Patent No.: 11/946976 Filed/Issue Date: November 29, 2007

Titled: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

INFINITE BAY TELECOM LIMITED LIABILITY CC , a LIMITED LIABILITY COMPANY

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Jeffrey Alan Carley To: Engedi Technologies, Inc.

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[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Dean M. Munyon/ September 27, 2011

Signature Date

Dean M. Munyon Attorney (Reg. No. 42,914)

Printed or Typed Name Title

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First Named Inventor	Jeffrey Alan Carley
Art Unit	2438
Examiner Name	TRUONG, THANHNGA B
Attorney Docket Number	6257-62712

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6049826		2000-04-11	Beser	
	2	5309563		1994-05-03	Farrand, et al.	
	3	5367670		1994-11-22	Ward, et al.	
	4	5541911		1996-07-30	Nilakantan, et al.	
	5	6167403		2000-12-26	Whitmire, et al.	
	6	6219790		2001-04-17	Lloyd, et al.	
	7	6373838		2002-04-16	Law, et al.	
	8	6389464		2002-05-14	Krishnamurthy, et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

	9	6421691		2002-07-16	Kajitani	
	10	6473795		2002-10-29	Danielson, et al.	
	11	6477595		2002-11-05	Cohen, et al.	
	12	6553408		2003-04-22	Merrell, et al.	
	13	6735702		2004-05-11	Yavatkar, et al.	
	14	7457857		2008-11-25	Crayford, et al.	
	15	7519826		2009-04-14	Carley	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020052850		2002-05-02	Saito, Makoto	
	2	20030120822		2003-06-26	Langrind, Nicholas A.; et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

	3	20030191857		2003-10-09	Terrell, William C.; et al.	
	4	20040162906		2004-08-19	Griffin, Philip B.; et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Office Action in U.S. Application No. 11/611,210 issued May 23, 2011, 24 pages.	☐
	2	ARN, Advanced Remote Node, Workgroup products; Nortel Networks; copyright 1999; pp. 1-16, specifically p. 9.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
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	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul T. Seegers/	Date (YYYY-MM-DD)	2011-10-04
Name/Print	Paul T. Seegers	Registration Number	66,621

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	Paul T. Seegers/Danielle Kramer
Attorney Docket Number:	6257-62712

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	11107511
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Danielle Kramer
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	04-OCT-2011
Filing Date:	29-NOV-2007
Time Stamp:	14:22:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	568
Deposit Account	501505
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

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Ex. 1004 - Page 230

1	Information Disclosure Statement (IDS) Form (SB08)	6257-62712_IDS.pdf	612741 3ce60d45eda3994c993c80199ef908816de3409f	no	6
Warnings:					
Information:					
2	Non Patent Literature	N1_62711_OA_5_23_11.pdf	793625 c60f8e6b8bc4046d5be32d41fd3e6c5eced10958	no	24
Warnings:					
Information:					
3	Non Patent Literature	N2_Nortel-Networks.pdf	240012 04f4ecd10d3b01af5c195ab23f1f65d7b4c4a218	no	16
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4	Fee Worksheet (SB06)	fee-info.pdf	30412 348a6ce91990d9fc3d7ba7c41a33576406313ae5	no	2
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Information:					
		Total Files Size (in bytes):	1676790		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/946,976	11/29/2007	Jeffrey Alan Carley	ENGEDI 7

CONFIRMATION NO. 1104

POA ACCEPTANCE LETTER

35690
MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

OC000000050176929

Date Mailed: 10/07/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/27/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/sibrahim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/946,976	11/29/2007	Jeffrey Alan Carley	ENGEDI 7

CONFIRMATION NO. 1104

POWER OF ATTORNEY NOTICE

31704
Thomas & Karceski, P.C.
536 GRANITE AVENUE
RICHMOND, VA 23226

OC000000050176928

Date Mailed: 10/07/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/27/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/sibrahim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Dkt. No:	6257-62712	§	Title: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
Application No:	11/946976	§	
Patent No:		§	Examiner: TRUONG, THANHNGA B
Filing Date:	11-29-2007	§	Group/Art Unit: 2438
Inventor(s):	Jeffrey Alan Carley	§	

STATEMENT REGARDING CHANGE FROM SMALL ENTITY STATUS

Patentee is no longer entitled to small entity status in the above-referenced application.

No fees are believed necessary; however if any fees are required, the Commissioner is hereby authorized to immediately charge the fees or credit any overpayment to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/DMM.

Respectfully submitted,

Date: October 10, 2011

By: /Dean M. Munyon/
Dean M. Munyon
Reg. No. 42,914

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8800

Electronic Acknowledgement Receipt

EFS ID:	11151212
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Dean M. Munyon/Dawn DeLuca
Filer Authorized By:	Dean M. Munyon
Attorney Docket Number:	6257-62712
Receipt Date:	10-OCT-2011
Filing Date:	29-NOV-2007
Time Stamp:	14:52:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	SEC.pdf	16734 8769b251a63b6203d8e2d0548ccd0168c3cd2eaf	no	1

Warnings:	
Information:	

Total Files Size (in bytes):	16734

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number:	11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date:	November 29, 2007	§	Group/Art Unit: 2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No. 1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: October 17, 2011 /Paul T. Seegers/
Date Paul T. Seegers, # 66,621

RESPONSE TO OFFICE ACTION MAILED JUNE 17, 2011

This paper is submitted in response to an Office Action of June 17, 2007, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

Lenovo
Ex. 1004 - Page 237

IN THE SPECIFICATION:

Please amend the specification by replacing the first paragraph after the title, below the heading "CROSS-REFERENCE TO RELATED APPLICATIONS" with the following amended paragraph:

This application is a continuation of U.S. Patent Application No. 10/969,561, filed October 20, 2004, which in turn is a continuation-in-part of U.S. Patent Application No. 10/461,827, filed Jun. 13, 2003~~, which~~. U.S. Patent Application No. 10/969,561 also claims the benefit of U.S. Provisional Application No. 60/572,777, filed October 21, 2003. U.S. Patent Application No. 10/461,827 in turn claims the benefit of U.S. Provisional Application No. 60/388,287, filed June 13, 2002, and U.S. Provisional Application No. 60/438,282, filed January 6, 2003. ~~The present application claims the benefit of U.S. Provisional Application No. 60/512,777, filed Oct. 21, 2003.~~ The present invention is related to the invention described in co-owned U.S. Patent No. 7,171,467, filed on Jun. 13,2003 and issued on January 30, 2007, which is incorporated herein by reference. The present invention is also related to the invention described in co-owned and co-pending U.S. Patent Application No. 11/611,210, filed on December 15, 2006, which is incorporated herein by reference.

Lenovo
Ex. 1004 - Page 238

IN THE CLAIMS:

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1. (Currently Amended) An apparatus, comprising: ~~In a computer system having one or more processors, memory, one or more data buses, and one or more user data interfaces,~~

a[[n]] ~~embedded dedicated~~ management apparatus ~~for securing~~ configured to control access to one or more device management functions for a separate network device ~~provided by said computer system or said management apparatus and for providing for secure communication of~~ based on management traffic received via a secure connection between ~~said devise~~ the management apparatus ~~functions~~ and a remote administrator of the network device ~~one or more management function communication partners utilizing one or more communication networks~~, ~~said~~ the management apparatus comprising:

~~(a) one or more management~~ a processors~~, separate from said computer system's said processors,~~ configured to facilitate ~~for~~ controlling access to ~~said~~ the device management functions; and

~~(b) one or more network enabled management~~ a bus interface[[s]] controller configured to receive the management traffic from a system bus of the network device, and to convey the management traffic to the processor ~~for communication with said management processor, said management interfaces operatively coupled to said management processor and capable of being operatively coupled to one or more of said communication networks; and~~

~~(c) one or more operative couplings between said management processor and one or more of said data buses;~~

~~wherein access to said device management functions and communication of management traffic between said device management functions and said management function communication partners utilizes one or more of said management interfaces and said management processor~~.

2. (Currently Amended) The ~~management~~ apparatus of claim 1, wherein ~~said~~ the device management functions and ~~said~~ the management traffic support ~~one or more remote management of said computer system activities selected from the group consisting of remote login,~~

Lenovo
Ex. 1004 - Page 239

~~authentication,~~ device configuration, ~~setting of the device clock, updating device software, and patching device software~~.

3. (Currently Amended) The ~~management~~ apparatus of claim 1, wherein ~~said~~ the device management functions and ~~said~~ the management traffic support remote login authentication ~~one or more remote management activities selected from the group consisting of management apparatus login, management apparatus configuration, updating management apparatus software, patching management apparatus software~~.

4. (Currently Amended) The ~~management~~ apparatus of claim 1[[3]], wherein the device management functions and the management traffic support setting of a device clock ~~said remote management activities for management apparatus configuration are selected from the group consisting of configuration of access controls, configuration of filtering, configuration of said management interface parameters, configuration of network parameters, and configuration of parameters for network services.~~

5. (Currently Amended) The ~~management~~ apparatus of claim 1, wherein the device management functions and the management traffic support updating device software ~~said management function communication partners are selected from the group consisting of network services and administrators.~~

6-23. (Canceled)

Lenovo
Ex. 1004 - Page 240

24. (New) An apparatus, comprising:

a management device;

a network device coupled to the management device via a system bus, wherein the network device is configured to handle data requests received via a wide-area network, wherein the network device is configured to receive, via the wide-area network, encrypted management requests from a remote administrator of the network device, and wherein the network device is configured to convey the encrypted management requests to the management device via the system bus;

wherein the management device is configured to decrypt the encrypted management requests, and wherein the management device is configured to control one or more functions of the network device based on the decrypted management requests.

25. (New) The apparatus of claim 24, wherein the one or more functions are associated with a network management protocol.

26. (New) The apparatus of claim 24, wherein the one or more functions are associated with a domain name service protocol.

27. (New) The apparatus of claim 24, wherein the one or more functions are associated with a network time protocol.

28. (New) The apparatus of claim 24, wherein the network device includes a first processor and a first memory storing instructions executable by the first processor to handle data requests received via the wide-area network;

wherein the management device includes a second processor and a second memory storing instructions executable by the second processor to control the one or more functions of the network device; and

wherein the first processor is distinct from the second processor, and wherein the first memory is distinct from the second memory.

Lenovo
Ex. 1004 - Page 241

29. (New) The apparatus of claim 28, wherein the management device is a removable unit that includes the second processor and the second memory, and wherein the unit further includes a bus controller configured to facilitate communication between the management device and the network device via the system bus.

30 (New) The apparatus of claim 24, wherein the network device is configured to receive power via a first power circuit, and wherein the management device is configured to receive power via a second power circuit separate from the first power circuit, and wherein the management device is configured to cycle the power received via the first power circuit for the network device.

31. (New) The apparatus of claim 24, wherein the management device is configured to implement a firewall that restricts network traffic received at the management device via the system bus.

32. (New)The apparatus of claim 24, wherein the management device is configured to establish a virtual private network connection with the remote administrator, and wherein the management device is configured to receive the management requests via the virtual private network connection.

33. (New) The apparatus of claim 24, wherein the management device includes:

a first interface configured to receive the encrypted management requests via the system bus; and

a second interface configured to receive management requests from the administrator and that do not pass through the wide-area network.

Lenovo
Ex. 1004 - Page 242

34. (New) A management device, comprising:

a processor configured to control one or more functions of a network device based on management requests from a remote administrator, wherein the network device is configured handle data requests received via a network interface of the network device, and wherein the network device is configured to receive, via the network interface, an encrypted form of the management requests; and

a bus controller configured to receive the encrypted form of the management requests from a system bus of the network device, and to convey the encrypted form of management requests to the processor;

wherein the processor is configured to decrypt the encrypted form of the management requests.

35. (New) The management device of claim 34, wherein the management device is configured to provide a command line interface to the remote administrator, and wherein the management device is configured to receive one or more commands to control the one or more functions of the network device.

36. (New) The management device of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

37. (New) The management device of claim 34, wherein the management device is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the management device is configured to cycle the power received by the network device via the second power circuit.

38. (New) The management device of claim 37, wherein the management device is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

Lenovo
Ex. 1004 - Page 243

39. (New) The management device of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection.

40. (New) The management device of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (New) The management device of claim 34, wherein the management device is configured to implement a firewall that restricts traffic received from the system bus.

42. (New) A method, comprising:

a network device receiving data traffic and encrypted management traffic via a wide-area network interface, wherein the encrypted management traffic is from a remote administrator of the network device;

the network device providing the data traffic to a first processor of the network device and the encrypted management traffic to a second processor of the network device;

the second processor decrypting the encrypted management traffic; and

the second processor controlling one or more functions of the network device based on the decrypted management traffic.

43. (New) The method of claim 42, further comprising:

the second processor providing a command-line interface to the remote administrator, wherein the encrypted management traffic includes commands issued by the remote administrator.

Lenovo
Ex. 1004 - Page 244

44. (New) The method of claim 42, further comprising:

the first and second processors receiving power via separate respective power circuits; and

the second processor cycling the power of the first processor to reset the first processor.

45. (New) The method of claim 44, wherein the power circuit associated with the second processor includes an uninterrupted power supply (UPS).

46. (New) The method of claim 42, further comprising:

the second processor establishing a virtual private network connection with the remote administrator, wherein the second processor receives the management traffic via the established connection.

47. (New) The method of claim 42, further comprising:

the network device using a firewall to restrict traffic to the second processor, wherein the firewall does not restrict traffic to the first processor.

Lenovo
Ex. 1004 - Page 245

REMARKS:

Claims 1-23 were pending in the application. Claims 6-23 have been canceled. Claims 1-5 have been amended. Claims 24-47 have been added. Therefore, claims 1-5 and 24-47 are now pending in this application.

Specification Amendments

Applicant has amended the first paragraph after the title to correct the priority claim of the present disclosure.

Section 103 Rejections

Claims 1-21 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Narad, et al. (U.S. Patent No. 6,859,841) in view Falik, et al. (U.S. Patent No. 6,532,507). Applicant submits that the amended claims are patentably distinct over the cited references for at least the reasons set forth below.

Claim 1

Claim 1 recites "a management apparatus [that is] configured to control access to one or more device management functions for a separate network device based on management traffic received via a secure connection between the management apparatus and a remote administrator of the network device." Claim 1 further recites that "the management apparatus" includes "a processor configured to facilitate controlling access to the device management functions" and "a bus interface controller configured to receive the management traffic from a system bus of the network device, and to convey the management traffic to the processor." Applicant submits that the cited references do not teach or suggest these features of claim 1.

Narad is directed to "general-purpose programmable packet-processing platform for accelerating network infrastructure applications which have been structured so as to separate the stages of classification and action." Narad (Abstract). According to Narad, "[n]etwork packet classification, execution of actions upon those packets, management of buffer flow, encryption services, and management of Network Interface Controllers are accelerated through the use of a multiplicity of specialized modules." *Id.* One of the modules described by Narad is a "C++ class[]" called the "ACE class (short for Action-Classification-Engine) [that] abstracts a set of

Lenovo
Ex. 1004 - Page 246

frame classification criteria." *See id.* 60:30-38. In describing the ACE class, Narad includes its only reference to an "administrator":

> The plumber 2014 is a management application used to set up or modify the bindings of every ACE in the system (across all applications). It provides a network administrator the ability to specify the serial order of frame processing by binding ACE targets to subsequent ACEs. The plumber is built using a client/server architecture, allowing for both local and remote access to specify configuration control. All remote access is authenticated and encrypted.

Id. at 62:62-63:2. Accordingly, to the extent Narad refers to an "administrator" and "remote access," Applicant submits that Narad does not teach or suggest using "a management apparatus configured to control access to one or more device management functions for a separate network device," as recited claim 1. Furthermore, claim 1 specifies that the "management apparatus" includes "a processor configured to facilitate controlling access to the device management functions" and "a bus interface controller configured to receive [] management traffic from a system bus of the network device, and to convey the management traffic to the processor." Applicant submits that Narad does not teach or suggest these additional features of claim 1.

Falik does not account for the deficiencies of Narad. Falik is concerned with arbitrating between multiple processing cores of a digital signal processor (DSP) that are attempting to access a shared memory and that have different respective clock rates. *See* Falik 1:34-38, 2:57-3:11, and 3:18-22. To this end, Falik discloses "[a]ccess arbitration logic and state machine circuitry 21 [] configured" to "limit[] [the] time interval" in which the faster processor core can have "continuous access to [the] shared memory." *See id.* at 6:13-17. Accordingly, Falik does not refer to "network device[s]," and much less, teach or suggest "a management apparatus configured to control access to one or more device management functions for a separate network device," as recited claim 1.

Applicant therefore submits that claim 1 and its dependent claims are patentably distinct over the cited references.

New Claims 24-47

Claim 24 recites "a network device coupled to [a] management device via a system bus." Claim 24 recites that "the network device is configured to receive, via the wide-area network, encrypted management requests from a remote administrator of the network device," and "to convey the encrypted management requests to the management device via the system bus."

Lenovo
Ex. 1004 - Page 247

Claim 24 further recites that "the management device is configured to decrypt the encrypted management requests," and "to control one or more functions of the network device based on the decrypted management requests." Claim 24 and its dependent claims are believed to distinguish over the cited references for at least reasons similar to those provided for claim 1.

Independent claims 34 and 42 (and their respective dependent claims) are believed to distinguish over the cited references for similar reasons.

Lenovo
Ex. 1004 - Page 248

CONCLUSION:

Applicant respectfully submits the application is in condition for allowance, and an early notice to that effect is requested.

Applicant has petitioned herewith for what is believed to be the appropriate extension of time. If any further extensions are necessary to prevent the above-referenced application from becoming abandoned, Applicant hereby petitions for such extension.

The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Also filed herewith are the following items:

☒ Petition for Extension of Time

☒ Application Data Sheet

Respectfully submitted,

Date: October 17, 2011

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
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Ex. 1004 - Page 249

PTO/SB/14 (11-08)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6257-62712
	Application Number	
Title of Invention	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1 Remove

Applicant Authority ◉ Inventor ○ Legal Representative under 35 U.S.C. 117 ○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jeffrey	Alan	Carley	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Colorado Springs	State/Province	CO	Country of Residence i	US

Citizenship under 37 CFR 1.41(b) i: US

Mailing Address of Applicant:

Address 1	5242 Willowbrook Road		
Address 2			
City	Colorado Springs	State/Province	CO
Postal Code	80917	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	35690		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT		
Attorney Docket Number	6257-62712	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6257-62712
	Application Number	
Title of Invention	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	**Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S. C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	35690		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11946976	Continuation of	10969561	2004-10-20	7325140	2008-01-29
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
10969561	Continuation in part of	10461827	2003-06-13	7496950	2009-02-24
Prior Application Status	Expired		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
10969561	non provisional of	60512777	2003-10-21		
Prior Application Status	Expired		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
10461827	non provisional of	60438282	2003-01-06		
Prior Application Status	Expired		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
10461827	non provisional of	60388287	2002-06-13		

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6257-62712
	Application Number	
Title of Invention	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

Remove

Application Number	Country [i]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			(•) Yes ( ) No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1 Remove

If the Assignee is an Organization check here. [X]			
Organization Name	INFINITE BAY TELECOM LIMITED LIABILITY COMPANY		
Mailing Address Information:			
Address 1	160 Greentree Drive		
Address 2	Suite 101		
City	Dover	**State/Province**	DE
Country [i] US		Postal Code	19904
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button. Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Paul T. Seegers/			Date (YYYY-MM-DD)	2011-10-17
First Name	Paul T.	Last Name	Seegers	Registration Number	66621

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6257-62712
	Application Number	
Title of Invention	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: October 17, 2011 (Date) /Paul T. Seegers/ Paul T. Seegers, # 66,621

PETITION UNDER 37 C.F.R. §1.136 FOR EXTENSION OF TIME

Applicant respectfully petitions the Commissioner for a 1 month extension of time under 37 C.F.R. §1.136 within which to respond to the Official Action mailed June 17, 2011, such extension allowing the undersigned until October 17, 2011, to respond.

A fee authorization is enclosed to cover this extension fee. However, if the fee authorization is missing or insufficient, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Respectfully submitted,

Date: October 17, 2011

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8800

Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	Paul T. Seegers/Deena Beasley
Attorney Docket Number:	6257-62712

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	1202	6	60	360
Independent claims in excess of 3	1201	1	250	250
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Extension - 1 month with $0 paid	1251	1	150	150
Miscellaneous:				
			Total in USD ($)	**760**

Electronic Acknowledgement Receipt

EFS ID:	11204616
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	17-OCT-2011
Filing Date:	29-NOV-2007
Time Stamp:	19:18:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$760
RAM confirmation Number	5546
Deposit Account	501505
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_to_06_17_11.pdf	98063 fc6ada807b91d67231549dfedd887371132 49e1f	yes	13

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Specification	2	2
Claims	3	9
Applicant Arguments/Remarks Made in an Amendment	10	13

Warnings:

Information:

2	Application Data Sheet	ADS.pdf	1905556 5c327fafd347e8ed478d24222559c8aafd2d 57e7	no	5

Warnings:

Information:

3	Extension of Time	Ext_Time.pdf	61633 e7cade6c34cbc4d989ae90625db6746cd55 466f5	no	1

Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	33753 63272757094e7ac5e79aa9032b15e55aa22 35932	no	2

Warnings:

Information:

Total Files Size (in bytes):	2099005

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/946,976	11/29/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
			TOTAL			TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

AMENDMENT **10/17/2011**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 29	Minus	** 23	= 6	X $ =		OR	X $60=	360
Independent (37 CFR 1.16(h))	* 4	Minus	***3	= 1	X $ =		OR	X $250=	250
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	**610**

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/CAROLYN COFER/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 11/30/2011

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	
ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
11/30/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

Office Action Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *1* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 October 2011*.

2a)☐ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *1-5; 24-47* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☐ Claim(s) _____ is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☒ Claim(s) *1-5; 24-47* are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *10/4/11*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the communication filed on October 17, 2011. Claims 1-47 are pending. Claims 6-23 are cancelled by the applicant. At this time, claims 1-5 and 24-47 are being restricted.

Election/Restrictions

2. Newly submitted claims 24-47 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

I. Original claims 1-5, drawn to "an apparatus, comprising: a management apparatus configured to control access to one or more device management functions for a separate network device….", classified in class 726, subclass 17.

II. New claims 24-33, 42-47, drawn to “an apparatus and method comprising a management device; a network device coupled to the management device via a system bus, wherein …..”, classified in class 726, subclass 3.

II. New claims 34-41, drawn to “a management device”, classified in class 726, subclass 6.

3. The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination I has separate utility such as a sensor. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of,

a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 24-47 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

4. Since the above-mentioned amendment appears to be a *bona fide* attempt to reply, applicant is given a TIME PERIOD of ONE (1) MONTH or THIRTY (30) DAYS, whichever is longer, from the mailing date of this notice within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD UNDER 37 CFR 1.136(a) ARE AVAILABLE.

Information Disclosure Statement

5. The information disclosure statement (IDS) filed on October 4, 2011 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga B. Truong whose telephone number is 571-272-3858. The examiner can normally be reached on First Shift.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached on 571-272-3787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Thanhnga B. Truong/
Primary Examiner, Art Unit 2438

TBT
November 25, 2011

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

SEARCHED

Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT
710	17, 107, 108	6/3/11	TBT

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10; 6/3/11	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10; 6/3/11	TBT
Consulted with PE Angel Castro and PE Ponnereay Pich for restriction by original presentation	11/22/11	TBT

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011						
	1	✓	✓	÷						
	2	✓	✓	÷						
	3	✓	✓	÷						
	4	✓	✓	÷						
	5	✓	✓	÷						
	6	✓	✓	-						
	7	✓	✓	-						
	8	✓	✓	-						
	9	✓	✓	-						
	10	✓	✓	-						
	11	✓	✓	-						
	12	✓	✓	-						
	13	✓	✓	-						
	14	✓	✓	-						
	15	✓	✓	-						
	16	✓	✓	-						
	17	✓	✓	-						
	18	✓	✓	-						
	19	✓	✓	-						
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011						
	37			÷						
	38			÷						
	39			÷						
	40			÷						
	41			÷						
	42			÷						
	43			÷						
	44			÷						
	45			÷						
	46			÷						
	47			÷						

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey Alan Carley
Art Unit	2438
Examiner Name	TRUONG, THANHNGA B
Attorney Docket Number	6257-62712

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6049826		2000-04-11	Beser	
	2	5309563		1994-05-03	Farrand, et al.	
	3	5367670		1994-11-22	Ward, et al.	
	4	5541911		1996-07-30	Nilakantan, et al.	
	5	6167403		2000-12-26	Whitmire, et al.	
	6	6219790		2001-04-17	Lloyd, et al.	
	7	6373838		2002-04-16	Law, et al.	
	8	6389464		2002-05-14	Krishnamurthy, et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

Lenovo
Ex. 1004 - Page 270

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

	9	6421691		2002-07-16	Kajitani	
	10	6473795		2002-10-29	Danielson, et al.	
	11	6477595		2002-11-05	Cohen, et al.	
	12	6553408		2003-04-22	Merrell, et al.	
	13	6735702		2004-05-11	Yavatkar, et al.	
	14	7457857		2008-11-25	Crayford, et al.	
	15	7519826		2009-04-14	Carley	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020052850		2002-05-02	Saito, Makoto	
	2	20030120822		2003-06-26	Langrind, Nicholas A.; et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

Lenovo
Ex. 1004 - Page 271

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

	3	20030191857		2003-10-09	Terrell, William C.; et al.	
	4	20040162906		2004-08-19	Griffin, Philip B.; et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Office Action in U.S. Application No. 11/611,210 issued May 23, 2011, 24 pages.	☐
	2	ARN, Advanced Remote Node, Workgroup products; Nortel Networks; copyright 1999; pp. 1-16, specifically p. 9.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Thanhnga Truong/	Date Considered	11/25/2011

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

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Ex. 1004 - Page 272

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

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Ex. 1004 - Page 273

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey Alan Carley
	Art Unit	2438
	Examiner Name	TRUONG, THANHNGA B
	Attorney Docket Number	6257-62712

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Paul T. Seegers/	Date (YYYY-MM-DD)	2011-10-04
Name/Print	Paul T. Seegers	Registration Number	66,621

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

Lenovo
Ex. 1004 - Page 274

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number:	11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date:	November 29, 2007	§	Group/Art Unit: 2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No. 1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: December 30, 2011 /Paul T. Seegers/
Date Paul T. Seegers, # 66,621

RESPONSE TO RESTRICTION REQUIREMENT MAILED NOVEMBER 30, 2011

This paper is submitted in response to a Restriction Requirement of November 30, 2011, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

Lenovo
Ex. 1004 - Page 276

IN THE CLAIMS:

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1-34. (Canceled)

34. (Currently Amended) An apparatus ~~management device~~, comprising:

a processor configured to control one or more functions of a network device having a network interface ~~based on management requests from a remote administrator~~, wherein the network device is configured to receive ~~handle~~ data requests and an encrypted form of management requests ~~received~~ via [[a]] the network interface ~~of the network device~~, ~~and~~ wherein the management requests are from a remote administrator ~~network device is configured to receive, via the network interface, an encrypted form of the management requests~~; and

a bus controller coupled to a system bus of the network device, wherein the bus controller is configured to receive the encrypted form of the management requests from [[a]] the system bus ~~of the network device~~, and to convey the encrypted form of the management requests to the processor;

wherein the processor is configured to decrypt the encrypted form of the management requests.

35. (Currently Amended) The apparatus ~~management device~~ of claim 34, wherein the apparatus ~~management device~~ is configured to provide a command line interface to the remote administrator, and wherein the apparatus ~~management device~~ is configured to receive one or more commands to control the one or more functions of the network device.

36. (Currently Amended) The apparatus ~~management device~~ of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

Lenovo
Ex. 1004 - Page 277

37. (Currently Amended) The apparatus ~~management device~~ of claim 34, wherein the apparatus ~~management device~~ is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the apparatus ~~management device~~ is configured to cycle the power received by the network device via the second power circuit.

38. (Currently Amended) The apparatus ~~management device~~ of claim 37, wherein the apparatus ~~management device~~ is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

39. (Currently Amended) The apparatus ~~management device~~ of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection.

40. (Currently Amended) The apparatus ~~management device~~ of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (Currently Amended) The apparatus ~~management device~~ of claim 34, wherein the apparatus ~~management device~~ is configured to implement a firewall that restricts traffic received from the system bus.

42-47. (Canceled)

Lenovo
Ex. 1004 - Page 278

48. (New) The apparatus of claim 34, wherein the apparatus is a component within the network device.

49. (New) A method, comprising:

a management device receiving an encrypted form of management requests via a system bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator;

the management device decrypting the encrypted form of the management requests; and

the management device controlling one or more functions of the network device according to the management requests.

50. (New) The method of claim 49, wherein the one or more functions are associated with a domain name service protocol.

51. (New) The method of claim 49, wherein the one or more functions are associated with a network time protocol.

52. (New) The method of claim 49, wherein the one or more functions are associated with a network management protocol.

53. (New) The method of claim 49, further comprising:

the management device establishing a virtual private network connection with an access control server configured to authenticate the remote administrator.

54. (New) The method of claim 49, further comprising:

the management device receiving additional management requests from the remote administrator via a network interface of the management device, and wherein the additional management requests are not received via the system bus of the network device.

Lenovo
Ex. 1004 - Page 279

55. (New) The method of claim 54, wherein the network interface of the management device is a telephone-line interface.

56. (New) The method of claim 49, further comprising:

the management device receiving power via a first power circuit separate from a second power circuit of the network device; and

the management device cycling power from the second power circuit to reset the network device.

Lenovo
Ex. 1004 - Page 280

REMARKS:

Claims 1-5 and 24-47 were pending in the application. Claims 1-5, 24-33, and 42-47 have been canceled. Claims 34-41 have been amended. Claims 48-56 have been added. Therefore, claims 34-41 and 48-56 are now pending in this application.

Restriction Requirement

The Examiner presented the following restriction requirement:

I. Claims 1-5 are drawn to "an apparatus, comprising: a management apparatus configured to control access to one or more device management functions for a separate network device…," classified in class 726, subclass 17.

II. Claims 24-33 and 42-47 are drawn to "an apparatus and method comprising a management device; a network device coupled to the management device via a system bus, wherein …," classified in class 726, subclass 3.

III. Claims 34-41 are drawn to "a management device," classified in class 726, subclass 6.

Applicant elects group III **without traverse**. This group includes claims 34-41. Applicant has also added claims 48-56; these claims are also readable on group III.

Lenovo
Ex. 1004 - Page 281

CONCLUSION:

Applicant respectfully submits the application is in condition for allowance, and an early notice to that effect is requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above-referenced application from becoming abandoned, Applicant hereby petitions for such extension.

The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Respectfully submitted,

Date: December 30, 2011

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8800

Lenovo
Ex. 1004 - Page 282

Electronic Acknowledgement Receipt

EFS ID:	11735028
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	30-DEC-2011
Filing Date:	29-NOV-2007
Time Stamp:	11:50:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_to_Restriction_11_30_11.pdf	76447 af212643703f33c39dd2f5a2d82289e4996f8cfb	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response to Election / Restriction Filed	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	7
Warnings:			
Information:			
	Total Files Size (in bytes):	76447	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/946,976	11/29/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
			TOTAL			TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

AMENDMENT **01/23/2012**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 21	Minus	** 29	= 0	X $ =		OR	X $60=	0
Independent (37 CFR 1.16(h))	* 2	Minus	***4	= 0	X $ =		OR	X $250=	0
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	**0**

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/FRANCES FIELDS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 03/13/2012

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
03/13/2012	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

Office Action Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 December 2011*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *34-41 and 48-56* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *34-36,39-41 and 48-55* is/are rejected.

8)☒ Claim(s) *37-38 and 56* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the communication filed on December 30, 2011. Claims 1-26 are pending. Claims 1-33 and 42-47 are cancelled by the applicant. Claims 48-56 are newly added by the applicant. At this time, claims 34-36, 39-41 and 48-55 are rejected.

In preparing for this office action, Examiner has pointed out particular references contained in the prior art(s) of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claims, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully each reference in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Election/Restrictions

2. Applicant's election without traverse of **group III** in the reply filed on December 30, 2011 is acknowledged.

Claims 1-33 and 42-47 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected groups I and II, there being no allowable generic or linking claim. Election was made **without traverse** in the reply filed on December 30, 2011.

Claim Objections

3. Claim 49 is objected to because of the following informalities:

Claim 49 is a method claim, however the body of the claim recites "a management device…, which is a system claim. Appropriate correction is required by the applicant.

Claims 1-34 is stated as canceled by the applicant, which should have been claims 1-33. Appropriate correction is required by the applicant.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 34-36, 39-41, 48-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schelling (US 6,954,864 B2), and further in view of Hesselink (US 7,120,692 B2).

a. *Referring to claim 34:*

i. Schelling teaches an apparatus comprising:

(1) a processor configured to control one or more functions of a network device having a network interface **(see Figure 1, element 100 – computing device, element 116 – network interface of Schelling)**, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator **(see Figure 1, column 2, lines 9-16 and column 3, lines 50-59 of Schelling)**;

(2) a bus controller coupled to a system bus of the network device **(see Figure 1, element 118 - bus controller, element 104 - bus of Schelling)**, wherein the bus controller is configured to receive the encrypted form of the management requests from the system bus **(see Figure 1, column 2, lines 9-16 and column 3, lines 25-29 and lines 50-59 of Schelling)**, and to convey the encrypted form of the management requests to the processor **(column 3, lines 60-67 of Schelling);** wherein the processor is configured to decrypt the encrypted form of the management requests. **(see combination of teaching below between Schelling and Yale);** and

ii. Although Schelling teaches the claimed subject matter, Schelling is silent on the capability of showing data encryption/decryption process. On the other hand, Hesselink teaches:

(1) wherein the processor is configured to decrypt the encrypted form of the management requests (column 10, lines 43-58; column 14, line 65 through column 15, line 18 of Hesselink).

iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:

(1) have modified the invention of Schelling with the teaching of Hesselink for improving security of data.

iv. The ordinary skilled person would have been motivated to:

(1) have modified the invention of Schelling with the teaching of Hesselink to protect transferring of data.

b. *Referring to claim 35:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device **(column 2, line 62 through column 3, line 4 and lines 60-67 of Schelling).**

c. *Referring to claim 36:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the bus controller is a peripheral component interconnect (PCI) controller **(column 3, line 18-19 of Schelling).**

d. *Referring to claim 39:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection **(column 3, lines 7-18 of Hesselink)**.

e. *Referring to claim 40:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device **(column 2, lines 7-17; column 3, lines 7-18 of Hesselink).**

f. *Referring to claim 41:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the apparatus management device is configured to implement a firewall that restricts traffic received from the system bus **(column 2, lines 7-21 of Hesselink).**

g. *Referring to claim 48:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the apparatus is a component within the network device **(see Figure 1 of Schelling).**

h. *Referring to claim 49:*

i. This claim consist a method to implement claim 1 and is rejected by the same prior art of record.

i. *Referring to claims 50-52:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the one or more functions are associated with a domain name service protocol; a network time protocol; or a network management protocol **(column 2, lines 19-35; column 4, lines 59-62 of Schelling).**

j. *Referring to claim 53:*

i. This claim has limitations that is similar to those of claim 40, thus it is rejected with the same rationale applied against claim 40 above.

k. *Referring to claim 54:*

i. This claim has limitations that is similar to those of claim 39, thus it is rejected with the same rationale applied against claim 39 above.

l. *Referring to claim 55:*

i. The combination of teaching between Schelling and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the network interface of the management device is a telephone-line interface **(column 4, lines 50-58; column 9, lines 34-45 of Hesselink)**.

Allowable Subject Matter

6. Claims 37, 38, 56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten to incorporate the entire language of claims 37, 38, and 56 into their independent claims including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached at 571-272-3787. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/Thanhnga B. Truong/
Primary Examiner, Art Unit 2438
March 3, 2012

Notice of References Cited	Application/Control No. 11/946,976	Applicant(s)/Patent Under Reexamination CARLEY, JEFFREY ALAN	
	Examiner THANHNGA B. TRUONG	Art Unit 2438	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,954,864	10-2005	Schelling, Todd A.	713/310
*	B	US-7,120,692	10-2006	Hesselink et al.	709/225
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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Results **1** - **10** of about **82,100**. (**0.18** sec)

Wireless identification **device**, RFID **device**, and method of manufacturing wireless identification **device**
ME Tuttle - US Patent 6,037,879, 2000 - Google Patents
... magnetic coupling. 12. A radio frequency identification **device** in accordance with claim 6 wherein the **device** includes a coil **configured** to **receive power** from an interrogator by magnetic coupling. 13. A radio **...**
Cited by 125 - Related articles - All 2 versions

Battery-powered patient implantable **device**
JH Schulman, RD Dell... - US Patent 6,185,452, 2001 - Google Patents
... devices 100), can communicate with a micro- stimulator 100fl using a modulated magnetic signal from magnetic emitter 190 and periodically **receive** a modulated magnetic **...** In a next operation mode, the battery-powered implant- able **device** 100 can be **configured** to operate **...**
Cited by 240 - Related articles - All 2 versions

Low-**power**-consumption monitor standby system
D Kikinis - US Patent 5,389,952, 1995 - Google Patents
... Alterna- tive **devices** for both built-in and post-manufacture modification to implement monitor **power** control might be **...** different combinations of the SYNC signals being absent and said **power** level control means is **configured** to operate in three 25 **power** modes in **...**
Cited by 83 - Related articles - All 2 versions

Methods and apparatus for providing **power** to lighting **devices**
IA Lys, KJ Dowling... - US Patent 7,038,399, 2006 - Google Patents
... Primary Examiner—Thuy Vinh Tran (74) Attorney, Agent, or Firm—Foley Hoag LLP (57) ABSTRACT Methods and apparatus for providing **power** to **devices via** an AC **power** source, and for facilitating the use of LED- based light sources on AC **power circuits** that provide signals **...**
Cited by 68 - Related articles - All 4 versions

Battery pack and charging system for a portable electronic **device**
CS Stephens - US Patent 5,734,254, 1998 - Google Patents
... 60 when a portable computing **device** (and the processor a communication port (**configured** as an **...** A battery pack for use with a portable electronic **device**, comprising: a housing; 5 a **...** is coupled to said communication port in such a manner as to **receive power** converting means **...**
Cited by 73 - Related articles - All 2 versions

System and method for voltage switching to supply various voltages and **power** levels to a peripheral **device**
S Amoni, PD Kangas... - US Patent 5,684,086, 1997 - Google Patents
... FIELD The present invention relates to supplying various volt- 15 ages and **power** levels **via** a **...** the lid to be taken off and dip switches to be set and software **configured**. SCSI (small computer systems interface) permitted access to external storage **devices**, but required a large **...**
Cited by 128 - Related articles - All 2 versions

Wireless identification **device**, RFID **device** with push-on/push off switch, and method of manufacturing wireless identification **device**
ME Tuttle - US Patent 6,693,513, 2004 - Google Patents
... the dipole antenna is the send antenna, and the loop antenna is the **receive** antenna. **...** 5, the circuitry 16 further includes a transmitter and is **configured** to provide a respon- sive **...** epoxy, the a suitable separation or singulation process takes place if multiple **devices** were formed **...**
Cited by 77 - Related articles - All 4 versions

Charge control of micro-electromechanical **device**
ET Martin, M Hunter, A Piehl, JR Przybyla ... - US Patent ..., 2004 - Google Patents
... Each switch circuit 40 is **configured** to control the mag- nitude of a stored charge on variable capacitor 46 of its associated micro-electromechanical **device** 34 to **...** for a total of M clear signals and M enable signals, with all switch **circuits** 40 of a given row **receive** the same **...**
Cited by 127 - Related articles - All 4 versions

Power regulation system, apparatus, and method for providing regulated **power** to a microelectronic **device**
W Pohlman, R Carroll... - US Patent 6,819,537, 2004 - Google Patents

... Further, controller 310 maybe **configured** to **receive** a signal from one or more sense **circuits** 336-342 and send ... **device** and to respond to low fre- quency transient **power** demands by the microelec- tronic **device**; and a plurality of **second power** regulators **configured** to provide ...
Cited by 39 - Related articles - All 3 versions

Multi-pair aggregate **power** distribution
H Barrass - US Patent 7,053,501, 2006 - Google Patents
... conducting pairs, wherein **first** and **second** pairs of the plurality of conducting pairs are routed to a **first** remote location for providing an aggregated **power** from said **first** and **second** pairs to a **first** remote **device** having a ... US 7,053 ,501 Bl 9 rectifier **configured** to **receive** the AC ...
Cited by 28 - Related articles - All 2 versions

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SEARCH RESULTS

You searched for: devices configured to receive power via first and second power circuits

Results per Page 25 Showing 1 - 25 of 910 results

A high resolution electronic still camera with full ocean depth housing

Goldsborough, R.G., III; Simpson, R.; Allen, B.; Stokey, R.;
OCEANS '97. MTS/IEEE Conference Proceedings
Volume: 1
Digital Object Identifier: 10.1109/OCEANS.1997.634420
Publication Year: 1997

IEEE CONFERENCES

Opportunistic Cooperation for Multi-Antenna Multi-Relay Networks

Weiliang Zeng; Chengshan Xiao; Youzheng Wang; Jianhua Lu;
Wireless Communications, IEEE Transactions on
Volume: 9 , Issue: 10
Digital Object Identifier: 10.1109/TWC.2010.090210.091634
Publication Year: 2010 , Page(s): 3189 - 3199
Cited by: 1

IEEE JOURNALS

Incipient diagnosis of multiple faults in chemical processes via hierarchical artificial neural network

Watanabe, K.; Hirota, S.;
Industrial Electronics, Control and Instrumentation, 1991.
Proceedings. IECON '91., 1991 International Conference on
Digital Object Identifier: 10.1109/IECON.1991.239114
Publication Year: 1991 , Page(s): 1500 - 1505 vol.2

IEEE CONFERENCES

Blueprint and First Experiences Bridging Hardware Virtualization and Global Grids for Advanced Scientific Computing: Designing and Building a Global Edge Services Framework (ESF) for OSG, EGEE, and LCG

Rana, A.S.; Keahey, K.; Freeman, T.; Sotomayor, B.; Foster, I.; Wurthwein, F.; Vaniachine, A.;
Nuclear Science Symposium Conference Record, 2006. IEEE
Volume: 1
Digital Object Identifier: 10.1109/NSSMIC.2006.356232
Publication Year: 2006 , Page(s): 627 - 631

IEEE CONFERENCES

Design of a programmable micro-ultrasound research platform

Chiu, H.C.T.; Lequan Zhang; Cheung, D.K.H.; Changhong Hu; Shung, K.K.; Yu, A.C.H.;
Ultrasonics Symposium (IUS), 2010 IEEE
Digital Object Identifier: 10.1109/ULTSYM.2010.5935688
Publication Year: 2010 , Page(s): 1980 - 1983

IEEE CONFERENCES

Improved Space-Based Moving Target Indication via Alternate Transmission and Receiver Switching

Ender, J.H.G.; Gierull, C.H.; Cerutti-Maori, D.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume: 46 , Issue: 12
Digital Object Identifier: 10.1109/TGRS.2008.2002266

Publication Year: 2008 , Page(s): 3960 - 3974
Cited by: 11

IEEE JOURNALS

Robust cognitive beamforming with partial channel state information

Lan Zhang; Ying-Chang Liang; Yan Xin; Poor, H.V.;
Wireless Communications, IEEE Transactions on
Volume: 8 , Issue: 8
Digital Object Identifier: 10.1109/TWC.2009.080698
Publication Year: 2009 , Page(s): 4143 - 4153
Cited by: 14

IEEE JOURNALS

Reliable Effects Screening: A Distributed Continuous Quality Assurance Process for Monitoring Performance Degradation in Evolving Software Systems

Yilmaz, C.; Porter, A.; Krishna, A.S.; Memon, A.M.; Schmidt, D.C.; Gokhale, A.S.; Natarajan, B.;
Software Engineering, IEEE Transactions on
Volume: 33 , Issue: 2
Digital Object Identifier: 10.1109/TSE.2007.20
Publication Year: 2007 , Page(s): 124 - 141

IEEE JOURNALS

Admission control for statistical QoS: theory and practice

Knightly, E.W., Shroff, N.B.,
Network, IEEE
Volume: 13 , Issue: 2
Digital Object Identifier: 10.1109/65.768485
Publication Year: 1999 , Page(s): 20 - 29
Cited by: 48

IEEE JOURNALS

Space Shift Keying (SSK-) MIMO over Correlated Rician Fading Channels: Performance Analysis And a New Method for Transmit-Diversity

Di Renzo, M.; Haas, H.;
Communications, IEEE Transactions on
Volume: 59 , Issue: 1
Digital Object Identifier:
10.1109/TCOMM.2011.111710.090775
Publication Year: 2011 , Page(s): 116 - 129
Cited by: 4

IEEE JOURNALS

High-power microwave generation from large-orbit devices

Destler, W.W.; Chojnacki, E.; Hoeberling, R.F.; Lawson, W.; Singh, A.; Striffler, C.D.;
Plasma Science, IEEE Transactions on
Volume: 16 , Issue: 2
Digital Object Identifier: 10.1109/27.3797
Publication Year: 1988 , Page(s): 71 - 89
Cited by: 9

IEEE JOURNALS

Experimental and theoretical characterization of an antiferroelectric ceramic capacitor for power electronics

Campbell, C.K.; van Wyk, J.D.; Rengang Chen;
Components and Packaging Technologies, IEEE Transactions on
Volume: 25 , Issue: 2
Digital Object Identifier: 10.1109/TCAPT.2002.1010008
Publication Year: 2002 , Page(s): 211 - 216
Cited by: 4

IEEE JOURNALS

© Copyright 2012 IEEE - All Rights Reserved

indexed by Inspec

Wide bandgap materials in thermal management of electronic structures

Gielisse, P.J.; Nicolescu, H.; Tremblay, J.; Achmatowicz, S.; Jakobowski, M.; Zwierkowska, E.; Golonka, L.;
Wide Bandgap Layers, 2001. Abstract Book. 3rd International Conference on Novel Applications of
Digital Object Identifier: 10.1109/WBL.2001.946643
Publication Year: 2001 , Page(s): 36 - 37

IEEE CONFERENCES

Transmit receive module for S-band electronically scanned antenna with on board digital control, health monitoring and telemetry

Oleski, P.J.; Thaduri, M.; Bharj, S.S.;
Military Communications Conference, 2005. MILCOM 2005. IEEE
Digital Object Identifier: 10.1109/MILCOM.2005.1605827
Publication Year: 2005 , Page(s): 1110 - 1114 Vol. 2

IEEE CONFERENCES

A neuromorphic architecture from single transistor neurons with organic bistable devices for weights

Nawrocki, R.A.; Shaheen, S.E.; Voyles, R.M.;
Neural Networks (IJCNN), The 2011 International Joint Conference on
Digital Object Identifier: 10.1109/IJCNN.2011.6033256
Publication Year: 2011 , Page(s): 450 - 456

IEEE CONFERENCES

High-Q micromachined resonant cavities in a K-band diplexer configuration

Hill, M.J.; Papapolymerou, J.; Ziolkowski, R.W.;
Microwaves, Antennas and Propagation, IEE Proceedings -
Volume: 148 , Issue: 5
Digital Object Identifier: 10.1049/ip-map:20010644
Publication Year: 2001 , Page(s): 307 - 312
Cited by: 13

IET JOURNALS

An advanced multiple channel cochlear implant

McDermott, H.;
Biomedical Engineering, IEEE Transactions on
Volume: 36 , Issue: 7
Digital Object Identifier: 10.1109/10.32112
Publication Year: 1989 , Page(s): 789 - 797
Cited by: 12

IEEE JOURNALS

A Bipolar Vacuum Microelectronic Device

Stoner, B.R.; Piascik, J.R.; Gilchrist, K.H.; Parker, C.B.; Glass, J.T.;
Electron Devices, IEEE Transactions on
Volume: 58 , Issue: 9
Digital Object Identifier: 10.1109/TED.2011.2157930
Publication Year: 2011 , Page(s): 3189 - 3194

IEEE JOURNALS

A Transcutaneous Implanted Battery Recharging and Biotelemeter Power Switching System

Jeutter, Dean C.;
Biomedical Engineering, IEEE Transactions on
Volume: BME-29 , Issue: 5
Digital Object Identifier: 10.1109/TBME.1982.324898
Publication Year: 1982 , Page(s): 314 - 321
Cited by: 5

IEEE JOURNALS

Transmit receive module for space ground link subsystem (SGLS) and unified S-band (USB) satellite telemetry, tracking and commanding (TT and C), and communications

Oleski, P.J.; Patton, R.W.; Bharj, S.S.; Thaduri, M.;
Military Communications Conference, 2004. MILCOM 2004.
IEEE
Volume: 2
Digital Object Identifier: 10.1109/MILCOM.2004.1494929
Publication Year: 2004 , Page(s): 880 - 885 Vol. 2

IEEE CONFERENCES

Micro-power implantable telemetry device for the study of micro-package technology for chronic biomedical micro-systems

Zhang, R.; Gong, P.; Hung-I Kuo; Ko, W.H.;
Sensors, 2010 IEEE
Digital Object Identifier: 10.1109/ICSENS.2010.5690069
Publication Year: 2010 , Page(s): 2468 - 2471

IEEE CONFERENCES

Estimating action potential thresholds from neuronal time-series: new metrics and evaluation of methodologies

Sekerli, M.; Del Negro, C.A.; Lee, R.H.; Butera, R.J.;
Biomedical Engineering, IEEE Transactions on
Volume: 51 , Issue: 9
Digital Object Identifier: 10.1109/TBME.2004.827531
Publication Year: 2004 , Page(s): 1665 - 1672
Cited by: 3

IEEE JOURNALS

Packaging properties of ALIVH-CSP using SBB flip-chip bonding technology

Itagaki, M.; Amami, K.; Tomura, Y.; Yuhaku, S.; Ishimaru, Y.;
Bessho, Y.; Eda, K.; Ishida, T.;
Advanced Packaging, IEEE Transactions on
Volume: 22 , Issue: 3
Digital Object Identifier: 10.1109/6040.784487
Publication Year: 1999 , Page(s): 366 - 371
Cited by: 4

IEEE JOURNALS

Optical characterization of $Si_{1-x}Ge_x$ nanodots grown on Si substrates via ultrathin SiO_2 buffer layers

Poweleit, C. D.; Hu, C.-W.; Tsong, I. S. T.; Tolle, J.;
Kouvetakis, J.;
Journal of Applied Physics
Volume: 101 , Issue: 11
Digital Object Identifier: 10.1063/1.2740742
Publication Year: 2007 , Page(s): 114312 - 114312-7

AIP JOURNALS

Application of mobile multimedia in the communication of public emergency

Xinling Tian;
Multimedia Technology (ICMT), 2011 International Conference
on
Digital Object Identifier: 10.1109/ICMT.2011.6003066
Publication Year: 2011 , Page(s): 2960 - 2963

IEEE CONFERENCES

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Energy Management System And Method



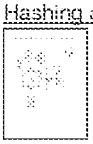
www.google.com/patents/US20110046801
US Pat. App 12/893327 - Filed Sep 29, 2010
Communication **interface** 430 and **processor** 402 can be used to enable a WIFI enabled communication device to access **network device** data, site data, ...
Overview - Abstract - Drawing - Description - Claims

Methods and devices for exchanging peer parameters between network ...



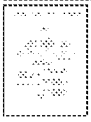
www.google.com/patents/US20040100910
US Pat. App 10430491 - Filed May 5, 2003 - Andiamo Systems, Inc.
The port within the **network device having** the lower WWN will send an **...** The **CPU** 1162 preferably accomplishes all these **functions** under the **control** of **...**
Overview - Abstract - Drawing - Description - Claims

Hashing algorithm used for multiple files having identical content ...



www.google.com/patents/US20080148006
US Pat. App 11564465 - Filed Feb 28, 2006 - QUALCOMM INCORPORATED
Such **network devices** may have multiple **network interfaces** including frame **...** The **CPU** 62 preferably accomplishes all these **functions** under the **control** of ...
Overview - Abstract - Drawing - Description - Claims

Server device and communication connection scheme using network ...



www.google.com/patents/US6611870
US Pat. 6611870 - Filed Aug 18, 1998 - Issued Aug 26, 2003 - Kabushiki Kaisha Toshiba
11 12 stored in the local memory of said one **network interface processor** unit **...** to the external **device** indirectly through the local **network controller** of **...**
Overview - Abstract - Drawing - Description - Claims

Network interface device with shared antenna



www.google.com/patents/US7907585
US Pat. 7907585 - Filed Apr 18, 2006 - Issued Mar 15, 2011 - Sony Ericsson Mobile Communications AB
In another a WiMAX transceiver. arrangements, the **network interface device** ... that is **configured** to carry out overall **control** of the **functions** and DETAILED **...**
Overview - Abstract - Drawing - Description - Claims

ZONE BASED ENERGY MANAGEMENT SYSTEM



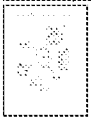
www.google.com/patents/US20110224838
US Pat. App 13152515 - Filed Jun 3, 2011
control a **network device**. **Controller** 400 can monitor an operating condition **...** For example, infonnation **network interface** 416 can be **configured** to access ...
Overview - Abstract - Drawing - Description - Claims

HOSTED NETWORK DEVICE USER INTERFACE



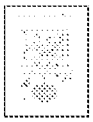
www.google.com/patents/US20090320098
US Pat. App 12141938 - Filed Jun 19, 2008 - Microsoft Corporation
Network device settings **control**, status updates, and access applications or **functions** may be performed using a web-based personal computer user **interface**.
Overview - Abstract - Drawing - Description - Claims

Back-up storage for home network



www.google.com/patents/US20070078910
US Pat. App 11241427 - Filed Sep 30, 2005
In the first embodiment, the PVR 40 may be **configured** as a **control** point to **...** It may have a central **processing** unit, memory, **interface devices**, etc.
Overview - Abstract - Drawing - Description - Claims

Method and Apparatus for Managing, Configuring, and Controlling an ...



www.google.com/patents/US20100332443
US Pat. App. 12/725,007 - Filed Mar 16, 2010
The **network** switch of claim 10, wherein the **control processor** communicates ... the physical **network interface having** an IOV **device** with a bridging **function** ...
Overview - Abstract - Drawing - Description - Claims

Systems and Methods for Programming a Remote Control Device



www.google.com/patents/US20110114716
US Pat. App. 12/618,713 - Filed Nov 14, 2009 - AT&T INTELLECTUAL PROPERTY I, L.P.
[0046] During operation, the remote **control device** 402 may be **configured** to ... **device** 502 includes a **network interface** 512, a memory 514, a **processor** 516 ...
Overview - Abstract - Drawing - Description - Claims

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System **having** central **processor** for transmitting generic packets to another **processor** to be altered and transmitting altered packets back to central **processor** for ...
M Macera, WE Jennings, D Josifovich... - US Patent ..., 1996 - Google Patents
... TO BE ALTERED AND TRANSMITTING ALTERED PACKETS BACK TO CENTRAL **PROCESSOR** FOR ROUTING **...** A bridge typically relays Media Access **Control** (MAC) layer (or data link **...** may comprise dedicated electronic components for performing all **functions** required of the **...**
Cited by 383 - Related articles - All 2 versions

Single **chip** universal protocol multi-**function** ATM **network interface**
MD Rostoker, DT Stelliga... - US Patent 5,802,287, 1998 - Google Patents
... A Reduced Instruction Set Computer (RISC) microprocessor controls the DMA controller as **...** ATM Adaptation Layer Convergence Sublayer Host CPU AAL5 CR C32 Generation ond **...** ATMizer ATM Layer Cell Multiplexing and Demultiplexing Generic Flow **Control** Delay Priority **...**
Cited by 179 - Related articles - All 2 versions

Intelligent **network interface device** and system for accelerated communication
LB Boucher, SEJ Blightman, PK Craft... - US Patent ..., 2002 - Google Patents
... 5 •44 M r 35- \ 170 159 185 **PROCESSOR** HARDWARE LOGIC 155 152~> FAST-PATH 168 166 **...** 6 APPLICATION TRANSPORT **NETWORK** DATA LINK "158 **...** REGISTER £ MULTIPLEXOR 182 SRAM 174 178 FLY BY SEQUENCER 180 183 SRAM **CONTROL** DRAM **CONTROL ...**
Cited by 156 - Related articles - All 2 versions

Set-top electronics and **network interface** unit arrangement
R Humpleman - US Patent 5,886,732, 1999 - Google Patents
... o- o- o o- o o- o- 114 A 110 MICRO- **PROCESSOR** CONTROLLER ZJ **... network** to home **network** conversion and conditioning; computers, such as the set-top electronics **...** STE); PC's; workstations; 60 high end printers; and special computers providing gateway/ **control functions**. **...**
Cited by 173 - Related articles - All 2 versions

Embedding **web** access functionality into a **device** for user **interface functions**
C Venkatraman... - US Patent 6,170,007, 2001 - Google Patents
... The **processor** 200 formats the information into the HTML format that defines the web page 18 and **...** a set of user **interface functions** for the copier and includes a set of information pertaining to the copier, the user **interface functions** enabling **control functions** of the **...**
Cited by 117 - Related articles - All 2 versions

Network access system including a programmable access **device having** distributed service **control**
D McDysan, HL Thomas... - US Patent 7,499,458, 2009 - Google Patents
... Controller A ■ 120b External **Processor** j 128b j Signaling j j Controller; Message **Processor** 122 Reporting { **Processor**[124 PAD Controller Message **Processor** PAD Controller Programmable Access **Device** (PAD) 40a Message **Control** & Reporting **...** 4 To **Network ...**
Cited by 20 - Related articles - All 4 versions

Spanning tree support in a high performance **network device**
S Muller... - US Patent 6,081,512, 2000 - Google Patents
... of time, the state associated with the first port is set to the **...** PACKET TRANSMISSION CPU GENERATES AND TRANSMITS A PACKET I -710 CPU **INTERFACE** RECEIVES PACKET **...** Id entitled, "Media Access **Control** (MAC) Bridges," approved May 31, 1990 (hereinafter "IEEE **...**
Cited by 131 - Related articles - All 2 versions

Embedding **web** access mechanism in an appliance for user **interface functions** including a **web** server and **web** browser
C Venkatraman... - US Patent 5,956,487, 1999 - Google Patents
... functionality may be implemented with existing circuitry in a **device**, such as an exiting **processor**, memory, and **...** 16 controls various **device**-specific 1° **functions** of the **device** 10 and monitors a set of information pertaining to the **device** 10 via a **control**/monitor path 20. **...**
Cited by 324 - Related articles - All 2 versions

System and method using a palm sized computer to **control network** devices
W Luo... - US Patent 6,216,158, 2001 - Google Patents
... 10,2001 Sheet 4 of 7 US 6,216,158 Bl 210 **Control** Application 410 CPU Service Middleware Protocol Layer PowerPoint **Control** Protocol Manager PowerPoint **Control** CPowerPoint 420 Storage Service Middleware **...** 2, the **control device** 200 is able to **control** services on the **...**
Cited by 140 - Related articles - All 2 versions

Local **device** and process diagnostics in a process **control network having** distributed **control functions**
HA Burns, BH Larson... - US Patent 6,026,352, 2000 - Google Patents
Cited by 134 - Related articles - All 4 versions

Create email alert

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SEARCH RESULTS

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Application of a civil Integrated Modular Architecture to military transport aircraft

Ramaker, R.; Krug, W.; Phebus, W.;
Digital Avionics Systems Conference, 2007. DASC '07. IEEE/AIAA 26th
Digital Object Identifier: 10.1109/DASC.2007.4391845
Publication Year: 2007 , Page(s): 2.A.4-1 - 2.A.4-10
Cited by: 2

IEEE CONFERENCES

NpBench: a benchmark suite for control plane and data plane applications for network processors

Lee, S.K.; John, L.K.;
Computer Design, 2003. Proceedings. 21st International Conference on
Digital Object Identifier: 10.1109/ICCD.2003.1240899
Publication Year: 2003 , Page(s): 226 - 233
Cited by: 6

IEEE CONFERENCES

The Data Acquisition and Control Network (DACNet) Ocean Observatory Operating System

Adams, R.S.; Hoyt, P.; Davidson, G.; McLean, S.D.;
OCEANS, 2005. Proceedings of MTS/IEEE
Digital Object Identifier: 10.1109/OCEANS.2005.1640006
Publication Year: 2005 , Page(s): 1 - 8

IEEE CONFERENCES

NX-1E Routing Control Complex

Watts, J.;
Communication Technology, IEEE Transactions on
Volume: 18 , Issue: 6
Digital Object Identifier: 10.1109/TCOM.1970.1090442
Publication Year: 1970 , Page(s): 729 - 733

IEEE JOURNALS

The multiple crossbar network interface

Hedberg, W.F.;
Local Computer Networks, 1989 , Proceedings 14th Conference on
Digital Object Identifier: 10.1109/LCN.1989.65275
Publication Year: 1989 , Page(s): 299 - 306

IEEE CONFERENCES

Development of IEC61850 Hardware Laboratory Platform for Substation Protection and Control Integration

Li, H.Y.; Crossley, P.A.; Fitch, J.;
Developments in Power System Protection, 2008. DPSP 2008. IET 9th International Conference on
Publication Year: 2008 , Page(s): 501 - 505

IET CONFERENCES

Distribution of Computer Functionality for Accelerator Control at the Brookhaven AGS

Stevens, A.; Clifford, T.; Frankel, R.;
Nuclear Science, IEEE Transactions on
Volume: 32 , Issue: 5 , Part: 1
Digital Object Identifier: 10.1109/TNS.1985.4333602
Publication Year: 1985 , Page(s): 2023 - 2025

IEEE JOURNALS

Hardware implementation of a controller based on neurobiological adaptive models of the human motor-control system

Martinez-Alvarez, J.J.; Guerrero-Gonzalez, A.; Pedreno-Molina, J.L.; Villaescusa-Fernandez, A.; Manuel Ferrandez, J.; Lopez-Coronado, J.;
Systems, Man and Cybernetics, 2002 IEEE International Conference on
Volume: 5
Digital Object Identifier: 10.1109/ICSMC.2002.1176417
Publication Year: 2002

IEEE CONFERENCES

Autonomous and universal remote control scheme

Yu-Chung Yang, Fan-Tien Cheng;
IECON 02 [Industrial Electronics Society, IEEE 2002 28th Annual Conference of the]
Volume: 3
Digital Object Identifier: 10.1109/IECON.2002.1185325
Publication Year: 2002 , Page(s): 2266 - 2271 vol.3
Cited by: 1

IEEE CONFERENCES

A new family of microcontrollers simplify aerospace communications systems

Jackson, A.;
Aerospace Applications Conference, 1996. Proceedings., 1996 IEEE
Volume: 1
Digital Object Identifier: 10.1109/AERO.1996.495899
Publication Year: 1996 , Page(s): 403 - 414 vol.1

IEEE CONFERENCES

Design of intelligent component for high voltage GIS based on IEC61850

Weifeng Xin; Guogang Zhang; Yuchen Wang; Yingsan Geng; Bo Liu;
Electric Power Equipment - Switching Technology (ICEPE-ST), 2011 1st International Conference on
Digital Object Identifier: 10.1109/ICEPE-ST.2011.6122984
Publication Year: 2011 , Page(s): 262 - 265

IEEE CONFERENCES

Data flow and buffer management in multi-channel data link controller

Varada, S.; Oduol, V.; Shelat, A.;
Local Computer Networks, 1999. LCN '99. Conference on
Digital Object Identifier: 10.1109/LCN.1999.802007
Publication Year: 1999 , Page(s): 132 - 141
Cited by: 1

IEEE CONFERENCES

All-optical fiber signal processing and regeneration for soliton communications

Bigo, S.; Leclerc, O.; Desurvire, E.;
Selected Topics in Quantum Electronics, IEEE Journal of
Volume: 3 , Issue: 5
Digital Object Identifier: 10.1109/2944.658596

Secured wireless communication for industrial automation and control

Palanisamy, S.; Kumar, S.S.; Narayanan, J.L.;
Electronics Computer Technology (ICECT), 2011 3rd International Conference on
Volume: 5
Digital Object Identifier: 10.1109/ICECTECH.2011.5941978
Publication Year: 2011 , Page(s): 168 - 171

IEEE CONFERENCES

Towards unified mechanisms for inter-processor communication

Katevenis, M.G.H.;
Embedded Computer Systems: Architectures, Modeling, and Simulation, 2008. SAMOS 2008. International Conference on
Digital Object Identifier: 10.1109/ICSAMOS.2008.4664839
Publication Year: 2008 , Page(s): iii

IEEE CONFERENCES

Publication Year: 1997 , Page(s): 1208 - 1223
Cited by: 26

IEEE JOURNALS

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An Implementation of the Broadband Home Gateway supporting Multi-Channel IPTV Service

Wan-Ki Park; Chang-Sic Choi; Youn-Kwae Jeong; Intark Han,
Consumer Electronics, 2006. ISCE '06. 2006 IEEE Tenth International Symposium on
Digital Object Identifier: 10.1109/ISCE.2006.1689499
Publication Year: 2006 , Page(s): 1 - 5

IEEE CONFERENCES

Distributed simulation: No special tools required

Paterra, F.; Overstreet, C.M.; Maly, K.;
Simulation Conference, 1990. Proceedings., Winter
Digital Object Identifier: 10.1109/WSC.1990.129554
Publication Year: 1990 , Page(s): 423 - 427

IEEE CONFERENCES

Extension of client-server applications to the Internet

Duo Li; Serizawa, Y.; Kiuchi, M.;
TENCON '02. Proceedings. 2002 IEEE Region 10 Conference on Computers, Communications, Control and Power Engineering
Volume: 1
Digital Object Identifier: 10.1109/TENCON.2002.1181287
Publication Year: 2002 , Page(s): 355 - 358 vol.1

IEEE CONFERENCES

Dedicated microprocessor system to control laser Doppler velocimetry measurements and to reduce data

Srikantaiah, D. V., Philip, T.; Wilson, W. W.,
Review of Scientific Instruments
Volume: 59 , Issue: 5
Digital Object Identifier: 10.1063/1.1139831
Publication Year: 1988 , Page(s): 793 - 796

AIP JOURNALS

An architectural design of a multimedia over IP (MoIP) terminal

Langi, A.Z.R., Bandung, Y ;
Circuits and Systems, 2002. APCCAS '02. 2002 Asia-Pacific Conference on
Volume: 1
Digital Object Identifier: 10.1109/APCCAS.2002.1114983
Publication Year: 2002 , Page(s): 415 - 418 vol.1

IEEE CONFERENCES

Layering as Optimization Decomposition: Questions and Answers

Mung Chiang; Low, S.H.; Calderbank, A.R.; Doyle, J.C.,
Military Communications Conference, 2006. MILCOM 2006 IEEE
Digital Object Identifier: 10.1109/MILCOM.2006.302293
Publication Year: 2006 , Page(s): 1 - 10

IEEE CONFERENCES

Performance Measurements on the ARPA Computer Network

Cole, G.,
Communications, IEEE Transactions on
Volume: 20 , Issue: 3 , Part: 2
Digital Object Identifier: 10.1109/TCOM.1972.1091204
Publication Year: 1972 , Page(s): 630 - 636
Cited by: 1

IEEE JOURNALS

A 70Mb/s ~100.5dBm sensitivity 65nm LP MIMO chipset for WiMAX portable router

Jyh-Shin Pan; Ming-Yang Chao; Yeh, E.; Wen-Wei Yang; Ching-Wen Hsueh; Shyuan Liao; Jian-Siang Lin; Shun-An Yang; Chin-Tai Liu; Tsai-Pao Lee; Jin-Ru Chen; Chia-Hua Chou; Min Chen; Den-Kai Juang; Jen-Hao Yeh; Chieh-Wei Liao; Po-Hung Chen; Kaipon Kao; Chia-Hsin Wu; Wen-Tso Huang; Shih-Hsien Liao; Chih-Heng Shih; Chien-Hsun Tung; Yen-Po Lee,
Solid-State Circuits Conference Digest of Technical Papers (ISSCC), 2011 IEEE International
Digital Object Identifier: 10.1109/ISSCC.2011.5746253
Publication Year: 2011 , Page(s): 136 - 138

IEEE CONFERENCES

Programmable analog VLSI CNN chip with local digital logic

Halonen, K.; Porra, V.; Roska, T.; Chua, L.;
Circuits and Systems, 1991., IEEE International Symposium on
Digital Object Identifier: 10.1109/ISCAS.1991.176606
Publication Year: 1991 , Page(s): 1291 - 1294 vol.2

IEEE CONFERENCES

Run-control migration from single book to multibooks

Webel, T.; Gilbert, T. E.; Schmunkamp, D.;
IBM Journal of Research and Development
Volume: 48 , Issue: 3.4
Digital Object Identifier: 10.1147/rd.483.0339
Publication Year: 2004 , Page(s): 339 - 346

IBM JOURNALS

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a network device receiving data requests and encrypted form of remote reque

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Any patent type
Utility
Design
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Defensive Publication
Additional Improvement
Statutory Invention Registration

List view
Grid view

Sorted by relevance
Filing date: latest
Filing date: oldest

Mobile terminal and gateway for remotely controlling data transfer ...



www.google.com/patents/US20080095373
US Pat. App 11892142 - Filed Aug 20, 2007 - FUJITSU LIMITED
Ad-hoc connection is a communication mode in which **network devices** can ...
The **receiving** file server 500 accepts the file **request** and starts sending **data** ...
Overview - Abstract - Drawing - Description - Claims

SYSTEMS AND METHODS FOR VERIFYING THE AUTHENTICITY OF A REMOTE DEVICE



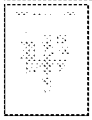
www.google.com/patents/US20080043997
US Pat. App 12135048 - Filed Jun 6, 2008 - Apple Inc
... a network server to verify that a **remote device**, which is **requesting** information ... or **devices** which are **receiving** and/or providing the sensitive **data**.
Overview - Abstract - Drawing - Description - Claims

Managing Encryption of Data



www.google.com/patents/US20110060915
US Pat. App 12557027 - Filed Sep 10, 2009 - INTERNATIONAL BUSINESS MACHINES CORPORATION
Of course, the bus system may be implemented using any suitable **type** of ... **devices** used to transmit and **receive data**, such as a modem or **a network** adapter.
Overview - Abstract - Drawing - Description - Claims

Apparatus, system, and method for extending a device driver to ...



www.google.com/patents/US7926069
US Pat. 7926069 - Filed Feb 26, 2007 - Issued Apr 12, 2011 - International Business Machines Corporation
For example, the receiver module 308 may **receive** an **encryption** key and the ... The **request** module 304 may then send a **request** informing the **remote** event ...
Overview - Abstract - Drawing - Description - Claims

Secure distribution of video on-demand



www.google.com/patents/US7930724
US Pat. 7930724 - Filed Oct 28, 2003 - Issued Apr 19, 2011 - Comcast IP Holdings I, LLC
Subsequently, when the **remote** server 404 receives 608 a 25 **request** for ... the second **encrypted form** to the user **device** using a distribution **network** of the ...
Overview - Abstract - Drawing - Description - Claims

SYSTEM AND METHOD FOR ENABLING ENCRYPTED VOICE COMMUNICATIONS ...



www.google.com/patents/US20100220850
US Pat. App 12394229 - Filed Feb 27, 2009
[0124] Server 30 sends a call setup **request data** signal to the **remote device** 70 (flow ... by **network** server 30 to **remote device** 70 for use in **encrypting** and ...
Overview - Abstract - Drawing - Description - Claims

System and method for processing data and communicating encrypted data



www.google.com/patents/US7627749
US Pat. 7627749 - Filed Apr 16, 2007 - Issued Dec 1, 2009 - AT&T Intellectual Property I, L.P.
The serial **data** interface 204 is coupled to a **data network** router 120 via **encrypted** ... An **encryption request** is sent along with the traffic **data** and the ...
Overview - Abstract - Drawing - Description - Claims

Method of providing user-related information between devices on a ...



www.google.com/patents/US20020112027
US Pat. App 9740200 - Filed Dec 18, 2000
which are required to correctly fill the **form** on the page. ... However, those **data** items which have been **requested** are retrieved from the details file or ...
Overview - Abstract - Drawing - Description - Claims

ELECTRONIC **DATA** COMMUNICATION SYSTEM



www.google.com/patents/US20090307430
US Pat. App. 12/162,868 - Filed Jan 30, 2007 - IDENTUM LIMITED
[0099] The carrier may be any entity or device capable of carrying the program. ... response to a **request** from a **remote network device**, the **encryption** key ...
Overview - Abstract - Drawing - Description - Claims

CLIENTS **REMOTE** ACCESS TO ENTERPRISE NETWORKS EMPLOYING ENTERPRISE ...



www.google.com/patents/US6609148
US Pat. 6609148 - Filed Nov 10, 1999 - Issued Aug 19, 2003
Finally, the ASPs 306 retrieve the desired information in raw **form** from the ... At the **request** of one of **remote devices** 104, **data** at an associated ...
Overview - Abstract - Drawing - Description - Claims

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Google scholar network device receiving data requests and e Search Advanced Scholar Search

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Results **1** - **10** of about **36,300**. (**0.24** sec)

... IN A CENTRALIZED **DATA** CENTER CONVERTING PLURALITY OF **DATA REQUESTS** FOR MESSAGING AND COLLABORATION INTO A SINGLE **REQUEST**
R Salo, C Van Hamersveld, BK Shelton... - US Patent ..., 2003 - Google Patents
... the class of input **devices** 10 is that each **device** must have the ability to **receive** information **...** The input **device** transmits or receives information over a **data** link 16, such as a telephone line, dedicated computer connection, satellite connection, cellular telephone **network**, 40 the **...**
Cited by 52 - Related articles - All 2 versions

[BOOK] Cryptography and **network** security [PDF] from ucy.ac.cy
W Stallings - 2003 - cs.ucy.ac.cy
... Each client wakes up periodically to **receive** the special frame **...** 7. AP associates with the station 8. Client can now communicate with the Ethernet **network** thru the AP 27 Page 28. **...** Key Authentication ❒ The following steps occur when two **devices** use Shared Key Authentication: **...**
Cited by 3906 - Related articles - View as HTML - Library Search - All 66 versions

Network computer system with **remote** user **data** encipher methodology
EO Bodnar - US Patent 6,061,790, 2000 - Google Patents
... no boundaries for storage, immunity to viruses, and immunity from mechanical **device** failure such **...** to be able to establish a secure connection with a server from a **network** client, authorize **...** the server and perform all client-related work including sending and **receiving** secure mail **...**
Cited by 75 - Related articles - All 2 versions

Method and system for adding a secure **network** server to an existing computer **network**
DS Glasser, TR Reardon, AW Ogus... - US Patent ..., 1998 - Google Patents
... AGENT (**REQUEST** USER GROUPS) GET RESPONSE FROM AUTH. **...** Type Byte 6-9 Destination **Network** Byte 10-15 Destination Node Byte 16-17 Destination Socket Byte 18-21 Source **Network** Byte 22-27 Source Node Byte 28-29 Source Socket Byte 30- **Data** (NCP Packet **...**
Cited by 146 - Related articles - All 2 versions

Encrypted data storage card including smartcard integrated circuit for storing an access password and encryption keys
MF Jones... - US Patent 5,623,637, 1997 - Google Patents
... may in turn be connected to other computers by modem, or by a **network**, as illustrated **...** that partition (as detected by the address decoder 195) will be rejected, notifying the **device** driver software **...** **request** for a valid password which, when entered, is 60 sent via the **data** buffer 173 **...**
Cited by 236 - Related articles - All 2 versions

Distributed **remote** monitoring (dRMON) for networks
R Fletcher... - US Patent 6,108,782, 2000 - Google Patents
... Get can get 50 the current value of the MIB and set can change it. **...** Page 10. 6,108: ,782 5 Limitations of IS-Based (Hub-Based/Switch-Based RMON A traditional stand-alone RMON probe, connected to a switch like any other host **device**, only sees **network** traffic flowing on **...**
Cited by 210 - Related articles - All 2 versions

Network proxy capable of dynamically selecting a destination **device** for servicing a client **request**
RC Knauerhase, MMH Tso - US Patent 6,345,303, 2002 - Google Patents
... object, HTTP **remote** proxy 36 uses either the GetObject( ) or GetScaledObject( ) call (depending on if **network** client 12 is capable of **receiving** scaled/transcoded **...** In addition, messages transmitted between **network** proxy 34 and the selected destination **device** may optionally **...**
Cited by 62 - Related articles - All 2 versions

Method and apparatus for retrieving secure information from mass storage media
R Nagel... - US Patent 5,394,469, 1995 - Google Patents
... and transmission via telephone dial-up or local area **network** (LAN) or wide area **network** 40 (WAN **...** This **device** is connected to the SCSI bus 16 via receptacles 20 and a fifty pin **...** The SCSI bus controller 18 operates in conjunction with a CPU 24 to **receive requests** for **data** from **...**
Cited by 195 - Related articles - All 2 versions

Decentralized remotely **encrypted** file system
RC Burns, EG Chron, D Long... - US Patent 6,405,315, 2002 - Google Patents
... NEXT COMPONENT OF THE PATH WITH THE LOOKUP KEYS OF THE DIRECTORY OBJECTS GET OBJECT IDS **...** It then sends a **request** to the **network** 50 storage **device** to replace the old **data** **...** stripe sets each referring to a group of directory **data** objects on the storage **device**. **...**
Cited by 160 - Related articles - All 2 versions

Method and apparatus of secure server control of local media via a trigger through a **network** for instant local access of **encrypted data** on local media within a platform ...
KG Mages... - US Patent 5,937,164, 1999 - Google Patents
... the **data** sent from one host computer of one **network** to a **receiving** computer of another **network**—which may **...** ROM 3. The end-user's computer 1 has 6 a display and a CPU 9 and a communication-**device**, such as **...** 3, there is shown the flow charts for **receiving** the uncrippling **...**
Cited by 82 - Related articles - All 2 versions

Create email alert

1 2 3 4 5 6 7 8 9 10 Next

network device receiving data reque Search

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VPN for remote digital evidence acquisition

Vinod Chandra, S.S.; Nair, A.S.;
TENCON 2007 - 2007 IEEE Region 10 Conference
Digital Object Identifier: 10.1109/TENCON.2007.4429020
Publication Year: 2007 , Page(s): 1 - 4

IEEE CONFERENCES

Remote fieldbus system management with Java and XML

Buhler, D.; Kuchlin, W.;
Industrial Electronics, 2000. ISIE 2000. Proceedings of the 2000 IEEE International Symposium on
Volume: 1
Digital Object Identifier: 10.1109/ISIE.2000.930476
Publication Year: 2000 , Page(s): 1 - 6 vol.1

IEEE CONFERENCES

A novel signaling nested reservation protocol for all-optical networks

Sichani, A.V.; Mouftah, H.T.;
Selected Areas in Communications, IEEE Journal on
Volume: 23 , Issue: 2
Digital Object Identifier: 10.1109/JSAC.2004.839383
Publication Year: 2005 , Page(s): 277 - 282

IEEE JOURNALS

A robust real-time transport protocol for multimedia information retrieval in an ATM network

Himonas, S.D.; Il-Pyung Park;
Performance, Computing, and Communications Conference, 1997. IPCCC 1997., IEEE International
Digital Object Identifier: 10.1109/PCCC.1997.581512
Publication Year: 1997 , Page(s): 177 - 183

IEEE CONFERENCES

IEEE Standard Glossary of Software Engineering Terminology

IEEE Std 610.12-1990
Digital Object Identifier: 10.1109/IEEESTD.1990.101064
Publication Year: 1990
Cited by: 19

IEEE STANDARDS

Privacy Preserving Collaborative Enforcement of Firewall Policies in Virtual Private Networks

Liu, A.X.; Fei Chen;
Parallel and Distributed Systems, IEEE Transactions on
Volume: 22 , Issue: 5
Digital Object Identifier: 10.1109/TPDS.2010.155
Publication Year: 2011 , Page(s): 887 - 895

IEEE JOURNALS

Anomaly Detection Using REONIT and Attack Confirmation by Neural Ensemble

Kumar, P.A.R.; Selvakumar, S.;
Computational Intelligence and Communication Networks (CICN), 2011 International Conference on
Digital Object Identifier: 10.1109/CICN.2011.39
Publication Year: 2011 , Page(s): 197 - 201

IEEE CONFERENCES

WMPLS throughput efficiency in multipath Rayleigh fading environments

Abu Ali, N.; Rad, H.S.; Gazor, S.; Mouftah, H.;
Electrical and Computer Engineering, 2004. Canadian Conference on
Volume: 3
Digital Object Identifier: 10.1109/CCECE.2004.1349753
Publication Year: 2004 , Page(s): 1749 - 1752 Vol.3

IEEE CONFERENCES

Headlight Prefetching and Dynamic Chaining for Cooperative Media Streaming in Mobile Environments

Shiow-yang Wu; Jungchu Hsu; Chieh-Ming Chen;
Mobile Computing, IEEE Transactions on
Volume: 8 , Issue: 2
Digital Object Identifier: 10.1109/TMC.2008.104
Publication Year: 2009 , Page(s): 173 - 187
Cited by: 4

IEEE JOURNALS

Virtual modem for STB network

Agarwal, N.;
Computer and Communication Technology (ICCCT), 2011 2nd International Conference on
Digital Object Identifier: 10.1109/ICCCT.2011.6075126
Publication Year: 2011 , Page(s): 108 - 112

IEEE CONFERENCES

WSN07-6: A Directional MAC Protocol for Practical Smart Antennas

Takatsuka, Y.; Nagashima, K.; Takata, M.; Sandai, M.; Watanabe, T.;
Global Telecommunications Conference, 2006. GLOBECOM '06. IEEE
Digital Object Identifier: 10.1109/GLOCOM.2006.505
Publication Year: 2006 , Page(s): 1 - 6
Cited by: 1

IEEE CONFERENCES

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network device having network interface

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Design
Plant
Defensive Publication
Additional Improvement
Statutory Invention Registration

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Filing date: oldest

Management method and a management system for volume



www.google.com/patents/US20080091816
US Pat. App 11905889 - Filed Oct 5, 2007
[0015] Each storage **device** holds storage areas each **having** a unique identifier, **network interfaces** each **having** a **network** address uniquely allocated in a **...**
Overview - Abstract - Drawing - Description - Claims

Processing **device** peripheral with integral **network interface** circuitry



www.google.com/patents/US20040030817
US Pat. App 10215076 - Filed Aug 8, 2002
The speaker includes a housing 602 **having** a **network interface** module 604 **...** processing **device** in a manner unrelated to utilization of the **network interface ...**
Overview - Abstract - Drawing - Description - Claims

Secure **network** bootstrap of **devices** in an automatic meter reading ...



www.google.com/patents/US20070257813
US Pat. App 11701745 - Filed Feb 2, 2007
2 is a process flow chart of a manufacturing stage of a metering **device having** a **network interface** card, according to one embodiment.
Overview - Abstract - Drawing - Description - Claims

MULTI-SPEED STACK **INTERFACE**



www.google.com/patents/US20100158041
US Pat. App 12343294 - Filed Dec 23, 2008 - Cisco Systems, Inc.
First, the **network device having** the slowest data rate capacity may be designated as the data cable speed director. Secondly, a pre-determined **network ...**
Overview - Abstract - Drawing - Description - Claims

ROUTING **DEVICE HAVING** INTEGRATED MPLS-AWARE FIREWALL



www.google.com/patents/US20100043068
US Pat. App 12271605 - Filed Nov 14, 2008 - JUNIPER NETWORKS, INC.
14, 2008, entitled "ROUTING **DEVICE HAVING** INTEGRATED MPLS-AWARE FIREWALL," the **...** In a packet -based **network**, such as the Internet, the computing **devices ...**
Overview - Abstract - Drawing - Description - Claims

Hashing algorithm used for multiple files **having** identical content ...



www.google.com/patents/US20060149906
US Pat. App 11364465 - Filed Feb 28, 2006 - QUPIO HOLDINGS, INC.
Such **network devices** may have multiple **network interfaces** including frame relay and ISDN interfaces, for example. Specific examples of such **network devices ...**
Overview - Abstract - Drawing - Description - Claims

Network Interface Devices



www.google.com/patents/US20100023994
US Pat. App 12180236 - Filed Jul 25, 2008 - AT & T Intellectual Property I, L.P.
... or received over the **network** 426 via the **network interface device** 420. **...** faster or more efficient equivalents **having** essentially the same functions.
Overview - Abstract - Drawing - Description - Claims

Network **device having** service card for intercept and monitoring of ...



www.google.com/patents/US8037175
US Pat. 8037175 - Filed Jun 24, 2010 - Issued Oct 11, 2011 - Juniper Networks, Inc.
The **network device** of claim 19, wherein each of the entries in the flow cache is **...** a **network interface** card to receive a packet from a network; **...**
Overview - Abstract - Drawing - Description - Claims

Network access control



www.google.com/patents/US20060198503
US Pat. App. 12010582 - Filed Jan 28, 2008
[0017] A first **network** channel is configured in the NAC **device** over the ... the computer **device** and the **network** over a second **network interface having** a ...
Overview - Abstract - Drawing - Description - Claims

Role-based network traffic-flow rate control



www.google.com/patents/US7561515
US Pat. 7561515 - Filed Sep 27, 2004 - Issued Jul 14, 2009 - Intel Corporation
1 is a block diagram of a system with a **network interface having** a rate control agent ... Host system 100 interfaces with **network device** 130 through network ...
Overview - Abstract - Drawing - Description - Claims

Previous 1 2 3 4 5 6 7 8 9 10 11 12 Next

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network device configured to receive data and encrypted form requests

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Statutory Invention Registration

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METHODS AND APPARATUS FOR A FINANCIAL DOCUMENT CLEARINGHOUSE AND ...



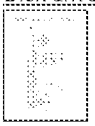
www.google.com/patents/US20110270760
US Pat. App. 13096841 - Filed Apr 28, 2011 - TOBSO INC
The ECS can be **configured** to provide secure **data** storage and secure **data** ... a **network** with a remote **device** associated with the businesses, **receiving** the ...
Overview - Abstract - Drawing - Description - Claims

System and method for processing **data** and communicating **encrypted data**



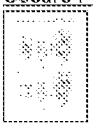
www.google.com/patents/US7627749
US Pat. 7627749 - Filed Apr 13, 2007 - Issued Dec 1, 2009 - AT&T Intellectual Property I, L.P.
The serial **data** interface 204 is coupled to a **data network** router 120 via ... The **encryption request** for the **data** is **received** along with the traffic **data** ...
Overview - Abstract - Drawing - Description - Claims

Disk drive employing a disk with a pristine area for storing ...



www.google.com/patents/US7003674
US Pat. 7003674 - Filed Jul 31, 2000 - Issued Feb 21, 2006 - Western Digital Ventures, Inc.
9 10 authentication circuitry for authenticating a **request received** from the host ... wherein the **encrypted** authentication **data** comprises **encrypted device** ...
Overview - Abstract - Drawing - Description - Claims

Secure Peer-to-Peer Distribution of an Updatable Keyring



www.google.com/patents/US20060060601
US Pat. App. 12060048 - Filed Mar 31, 2008 - Ricoh Company, Ltd.
However, if the server was **configured** to only superdistribute documents when they ... Loss or theft of disk media: Because all **data** is **encrypted** on disk, ...
Overview - Abstract - Drawing - Description - Claims

Network device configuration



www.google.com/patents/US20060168238
US Pat. App. 10540328 - Filed Dec 1, 2003
A **network device** as claimed in claim 2 wherein the device initially contains an input filter which will only **receive configuration data** from a specified ...
Overview - Abstract - Drawing - Description - Claims

Transparent aware **data** transformation at file system level for ...



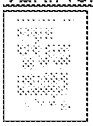
www.google.com/patents/US7877602
US Pat. 7877602 - Filed Jul 27, 2007 - Issued Jan 25, 2011 - International Business Machines Corporation
A communications unit 10 may include one or more **devices** used to transmit and **receive data**, such as a modem or a **network** adapter. A memory may be, ...
Overview - Abstract - Drawing - Description - Claims

Access and control system for **network**-enabled **devices**



www.google.com/patents/US7120692
US Pat. 7120692 - Filed Nov 19, 2002 - Issued Oct 10, 2006 - Senvid, Inc.
Network- enabled **devices** 18a, 18b may be **configured** for "plug-and- play" operation ... key for each command/**data** transmission to be sent in **encrypted form**, ...
Overview - Abstract - Drawing - Description - Claims

VERIFICATION OF PORTABLE CONSUMER DEVICES



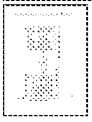
www.google.com/patents/US20100293382
US Pat. App. 12780657 - Filed May 14, 2010
... to the **received request**; and code that directs the **data** processor to send, ... be sent in **encrypted form** to the validation entity using the **networking** ...
Overview - Abstract - Drawing - Description - Claims

System and method for securing wireless **data**



www.google.com/patents/US20060154676
US Pat. App. 10925534 - Filed Aug 25, 2004
The method of claim 4, wherein the **device** not **receiving** proper user identification ... the **data** is in an **encrypted form** while stored on the wireless **device**.
Overview - Abstract - Drawing - Description - Claims

NETWORK DEVICE CONFIGURATION



www.google.com/patents/US20110010437
US Pat. App. 12499662 - Filed Jul 8, 2009 - INTERNATIONAL BUSINESS MACHINES CORPORATION
At block 414, the **network device** sends an open path response in the **form** of a ... **configured to receive** the broadcast and is **configured** to define how **data** ...
Overview - Abstract - Drawing - Description - Claims

Previous 1 2 3 4 5 6 7 8 9 10 11 12 13 Next

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S168	2	"20040030817".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 17:27
S169	2	"7120692".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/03/02 17:40
S170	2	"6487656".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/03/02 17:48
S172	2	"20020091764".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/03/02 17:56
S173	17	"CARLEY, JEFFREY ALAN"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:33
S174	0	S173 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:38
S175	1647	((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:38
S176	10	S175 and (request$3 with (encrypt$3 with form))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:39
S177	0	S176 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:40
S178	4720	((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:40
S179	6	S178 and ((network with device) with ((network with interface) with (receiv$3 with ((data or	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2012/03/02 18:41

		management) with requests))))	DERWENT			
S180	32753	(709/203,208,225-226,229).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:45
S181	156	S180 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:46
S182	1	S181 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:46
S183	2	S181 and (request$3 with (encrypt$3 with form))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:46
S184	5294	(726/2-3).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:47
S185	22	S184 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:48
S186	1	S185 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:48
S187	1	S185 and (request$3 with (encrypt$3 with form))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:48
S188	0	S181 and (receiv$3 with (power with (power with circuit$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:55
S189	0	S185 and (receiv$3 with (power with (power with circuit$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:55
S190	10819	(713/300,310,320,330,340).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:57
S191	13	S190 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:57
S192	0	S191 and (receiv$3 with (power with (power with circuit$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/02 18:57

EAST Search History (Interference)

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3/3/2012 10:16:53 AM

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	16	"ENGEDI TECHNOLOGIES, INC"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/06 22:47
L2	0	l1 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/06 22:47
L3	1	l1 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/06 22:48
L4	0	l1 and (receiv$3 with (power with (power with circuit$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/03/06 22:48

EAST Search History (Interference)

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3/6/2012 10:50:11 PM
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012					
	1	✓	✓	÷	-					
	2	✓	✓	÷	-					
	3	✓	✓	÷	-					
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	5	✓	✓	÷	-					
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	8	✓	✓	-	-					
	9	✓	✓	-	-					
	10	✓	✓	-	-					
	11	✓	✓	-	-					
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	32			÷	-					
	33			÷	-					
	34			÷	✓					
	35			÷	✓					
	36			÷	✓					

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
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=	Allowed	÷	Restricted	I	Interference	O	Objected

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CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012					
	37			÷	O					
	38			÷	O					
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	45			÷	-					
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	47			÷	-					
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	53				✓					
	54				✓					
	55				✓					
	56				O					

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

SEARCHED

Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT
710	17, 107, 108	6/3/11	TBT
709	203,208,225-226,229	3/2/12	TBT
726	2-3	3/2/12	TBT
713	300,310,320,330,340	3/2/12	TBT

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10; 6/3/11	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10; 6/3/11	TBT
Consulted with PE Angel Castro and PE Ponnereay Pich for restriction by original presentation	11/22/11	TBT
Inventor Name Searched; Assignee Searched	3/2/12; 3/6/12	TBT
TEXT Searched; EAST Searched; NPL Searched - Google/Patents and Scholar; IEEE	3/2/12	TBT

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

Charge pump with reduced **power** consumption



www.google.com/patents/US5801934
US Pat. 5801934 - Filed Dec 12, 1996 - Issued Sep 1, 1998 - Cypress Semiconductor Corp.
input of said **first** and said **second power** switches of said (a) at least one diode **configured to receive** a **first** voltage "f~. . * . ~r . *T , Jr. .
Overview - Abstract - Drawing - Description - Claims

POWER SUPPLY AND DUAL-CHARGEABLE BATTERY PACK THEREIN



www.google.com/patents/US20100244774
US Pat. App 12647150 - Filed Dec 24, 2009
The **first** charging terminal set is **configured to receive** an input of a **first power** for outputting to the electrical energy storage **device** . The **second** ...
Overview - Abstract - Drawing - Description - Claims

Heater chip test **circuit** and methods for using the same



www.google.com/patents/US7635174
US Pat. 7635174 - Filed Aug 22, 2006 - Issued Dec 22, 2009 - Lexmark International, Inc.
The heater **circuit** has a heater 2a and a **power** transistor 2b. ... comprising: a **second power device configured** to allow current to flow **through** the heater, ...
Overview - Abstract - Drawing - Description - Claims

Multiple **power** mode amplifier with bias modulation option and ...



www.google.com/patents/US20050083117
US Pat. App 10749610 - Filed Dec 30, 2003 - Wavics, Inc.
[0028] In an implementation, a path, for **power** passing through the first impedance ... **configured to receive** first **power** from a driver **via first and second** ...
Overview - Abstract - Drawing - Description - Claims

Electronic display system, electronic paper writing **device**, ...



www.google.com/patents/US7834843
US Pat. 7834843 - Filed Aug 3, 2005 - Issued Nov 16, 2010 - Seiko Epson Corporation
A display system, comprising: a writing **device configured** to transmit an ... a **power** supply **circuit** having a **second** load, the **first** load 40 being set with ...
Overview - Abstract - Drawing - Description - Claims

Digital computer utilizing buffer to store and output data to play ...



www.google.com/patents/US6868468
US Pat. 6868468 - Filed Feb 25, 2002 - Issued Nov 22, 2005 - O2 Micro, Inc.
first power state, and the processing **circuit** consuming less **power** in the ... **configured** to operate in a **first** 5 **device power** state, a **second device power** ...
Overview - Abstract - Drawing - Description - Claims

BUS INTERFACE WITH **POWER** MANAGEMENT FEATURES



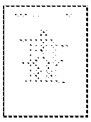
www.google.com/patents/US20100325450
US Pat. App 12870527 - Filed Aug 27, 2010 - BROADCOM CORPORATION
A bus interface comprising: a **first power** supply bus **configured** to: ... to: distribute the **first power** supply voltage to **second circuitry** during the normal ...
Overview - Abstract - Drawing - Description - Claims

Transmitting and **Receiving** Wireless Signals **Via** Dual Antennas



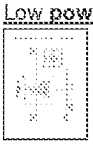
www.google.com/patents/US20100061279
US Pat. App 12206567 - Filed Sep 8, 2008 - Infineon Technologies AG
Additionally, a **power** level of the **first** transmission signal 220 and a **power** ... be **configured to receive** signals **via** the **first** antenna 214 and the **second** ...
Overview - Abstract - Drawing - Description - Claims

Differential output **circuit** and semiconductor **device** having the same



www.google.com/patents/US7304506
US Pat. 7304506 - Filed Feb 24, 2005 - Issued Dec 4, 2007 - Ricoh Company, Ltd.
... via first and second output 5 terminals, comprising a first transistor, ... and the predetermined first **power** 10 supply voltage, **configured** to form a ...
Overview - Abstract - Drawing - Description - Claims

Low **power** consumption adaptive **power** amplifier



www.google.com/patents/US20050030094
US Pat. App. 10634610 - Filed Aug 5, 2003 - Motorola, Inc.
In response to **receiving** the **device configuration** signal 310 associated with the **first power** output level, the voltage supply switch 400 couples the **first ...**
Overview - Abstract - Drawing - Description - Claims

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SEARCH RESULTS

You searched for: device configured to receive power via first power circuit

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Showing 1 - 1 of 1 results

Design of a programmable micro-ultrasound research platform

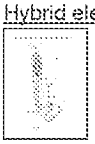
Chiu, H.C.T.; Lequan Zhang; Cheung, D.K.H.; Changhong Hu; Shung, K.K.; Yu, A.C.H.,
Ultrasonics Symposium (IUS), 2010 IEEE
Digital Object Identifier: 10.1109/ULTSYM.2010.5935688
Publication Year: 2010 , Page(s): 1980 - 1983

IEEE CONFERENCES

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Inspec

Hybrid electric cleaning **device**



www.google.com/patents/US20080284363
US Pat. App 12077079 - Filed Mar 14, 2008
... motor are **configured** for **receiving power via** the **power** control module from at ... wherein the hybrid controller includes a **first circuit** setting and a ...
Overview - Abstract - Drawing - Description - Claims

Driver with improved **power** supply rejection



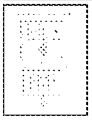
www.google.com/patents/US7999523
US Pat. 7999523 - Filed Aug 29, 2008 - Issued Aug 16, 2011 - Silicon Laboratories Inc.
An integrated **circuit** comprising: a **first** regulator **circuit configured to receive power** from an external **power** supply and **configured** to provide a **first** ...
Overview - Abstract - Drawing - Description - Claims

Flash memory **devices** having **power** level detection **circuits**



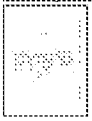
www.google.com/patents/US7221590
US Pat. 7221590 - Filed Dec 23, 2004 - Issued May 22, 2007 - Samsung Electronics Co., Ltd.
Thus, **power** level detection **circuits** according to embodiments of the present ... to the **first** region of the flash memory ewe ev8 **device** and **configured** to ...
Overview - Abstract - Drawing - Description - Claims

Device and methods for optimizing communications between a medical ...



www.google.com/patents/US20110063094
US Pat. App 12646752 - Filed Dec 23, 2009
The current sensing **circuit** may be **configured** to produce the **first** state of the control signal when the second processor transitions to the low **power** sleep ...
Overview - Abstract - Drawing - Description - Claims

Safety **device** for **power circuit** and fuse box



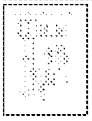
www.google.com/patents/US6775113
US Pat. 6775113 - Filed Sep 13, 2002 - Issued Aug 10, 2004 - Yazaki Corporation
A safety **device** for a **power circuit**, comprising: 25 a **first power circuit** including a first load and a first fuse element for **receiving** a first voltage ...
Overview - Abstract - Drawing - Description - Claims

Operation control method of two dimensional diffusive ...



www.google.com/patents/US7541922
US Pat. 7541922 - Filed Dec 2, 2005 - Issued Jun 2, 2009 - Hoya Corporation
17 switch **circuit** 648 **receiving** the **power** off signal 650 from the **device** 630, ... The **first power** supply terminal 776 is **configured to receive** a voltage ...
Overview - Abstract - Drawing - Description - Claims

POWER SUPPLY SAVING SYSTEM FOR AN ELECTRONIC **DEVICE**



www.google.com/patents/US20100103708
US Pat. App 12331416 - Filed Dec 9, 2008 - HON HAI PRECISION INDUSTRY CO., LTD
A **power** supply saving system comprising: a **power** input interface **configured to receive** an external alternating current (AC) **power** signal; a **power** output ...
Overview - Abstract - Drawing - Description - Claims

Method and apparatus for changing **power** class for a powered **device**



www.google.com/patents/US7613939
US Pat. 7613939 - Filed Mar 14, 2006 - Issued Nov 3, 2009 - Cisco Technology, Inc.
In a **first** powered **device configured to receive** a **first** amount of **power** from a **power** source, **via** a communication medium, based upon a **first** classification ...
Overview - Abstract - Drawing - Description - Claims

Programmable logic **device** memory cell **circuit**



www.google.com/patents/US6115312
US Pat. 6115312 - Filed Oct 6, 1998 - Issued Sep 5, 2000 - Altera Corporation
30 35 40 45 50 55 60 65 8 logical high signal at the input of the **first** ... and **power** control **circuitry configured to receive** the **power** supply signal and ...
Overview - Abstract - Drawing - Description - Claims

Digital computer utilizing buffer to store and output data to play ...



www.google.com/patents/US6868468

US Pat. 6868468 - Filed Feb 25, 2002 - Issued Nov 22, 2005 - O2 Micro, Inc.

first power state, and the processing **circuit** consuming less **power** in the ... and a plurality of **devices configured to receive** an associated one of the ...

Overview - Abstract - Drawing - Description - Claims

1 2 3 4 5 6 7 8 9 10 Next

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Google scholar device configured to receive power via first po Search Advanced Scholar Search

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Results **1** - **10** of about **128,000**. (**0.24** sec)

Wireless identification **device**, RFID **device**, and method of manufacturing wireless identification **device**

ME Tuttle - US Patent 6,037,879, 2000 - Google Patents

... In the illustrated embodiment, the dipole antenna is the send antenna, and the 45 loop antenna is the **receive** antenna. **...** The **device** of FIG. **...** 5, the circuitry 16 is **configured** to provide a signal responsive to an interro- gation by the interrogator 26 by magnetic coupling. **...**

Cited by 125 - Related articles - All 2 versions

Power regulation system, apparatus, and method for providing regulated **power** to a microelectronic **device**

W Pohlman, R Carroll... - US Patent 6,819,537, 2004 - Google Patents

... Further, controller 310 maybe **configured** to **receive** a signal from one or more sense **circuits** 336-342 and send **... device** and to respond to low fre- quency transient **power** demands by the microelec- tronic **device**; and a plurality of second **power** regulators **configured** to provide **...**

Cited by 29 - Related articles - All 3 versions

Methods and apparatus for providing **power** to lighting **devices**

IA Lys, KJ Dowling... - US Patent 7,038,399, 2006 - Google Patents

... Primary Examiner—Thuy Vinh Tran (74) Attorney, Agent, or Firm—Foley Hoag LLP (57) ABSTRACT Methods and apparatus for providing **power** to **devices via** an AC **power** source, and for facilitating the use of LED- based light sources on AC **power circuits** that provide signals **...**

Cited by 68 - Related articles - All 4 versions

Battery-powered patient implantable **device**

JH Schulman, RD Dell... - US Patent 6,185,452, 2001 - Google Patents

... the implanted **device** 100 receives and demodu- lates this command signal to **receive** the command **...** 134 **via** path 136 where its applicability to 35 a particular implanted **device** 100 is **...** signal which can be detected in a similar manner by receiver 114a (**configured** to demodulate **...**

Cited by 249 - Related articles - All 2 versions

System and method for operating a sensed **power device** over data wiring

JP Lang, DL Oster - US Patent 7,154,381, 2006 - Google Patents

... Because of signaling between the powered **device** 150 and the **power** source 105, the present invention is **configured** to deliver **power** at any number of **power** levels, and to deliver **power** at one or more specific **...** 1 **configured** for requesting high **power** operation **via ...**

Cited by 34 - Related articles - All 4 versions

Power management system for computer **device** interconnection bus

F Oprescu... - US Patent 5,752,046, 1998 - Google Patents

... can activate **power** supply **devices** which are off-line **via** soft-**power ...** PRIORITY LOW HIGH **POWER** MANAGER) INITIALIZATION: -IDENTIFY ALL **DEVICES** -fNPUT AND STORE **POWER** REQUIREMENTS AND **POWER** CAPABILITIES **RECEIVE POWER** USAGE REQUEST **...**

Cited by 107 - Related articles - All 2 versions

Method and apparatus for remote powering of **device** connected to network

L Cafiero, M De Nicolo, T Edsall... - US Patent ..., 2004 - Google Patents

... 23. The **circuit** according to claim 15 wherein the **first** interface includes a differential pair of **receive** signal con- tacts and the second interface includes a differential pair of transmit signal contacts. 24. **...** 25. A **device**, comprising a **circuit configured** to loop back signals on a **...**

Cited by 61 - Related articles - All 3 versions

System for managing **power** consumption of **devices** coupled to a common bus

F Oprescu... - US Patent 5,483,656, 1996 - Google Patents

... all **Devices** -Input and Store **Power** Requirements and **Power** Capabilities -100 **Receive Power** Usage Request **...** a simplified block diagram of a serial **device** 50 interconnection bus **configured** in accordance **...** lines 32 and **power** lines 34 carry indices associated with each **device**. **...**

Cited by 121 - Related articles - All 2 versions

Low-**power**-consumption monitor standby system

D Kikinis - US Patent 5,389,952, 1995 - Google Patents

... Alterna- tive **devices** for both built-in and post-manufacture modification to implement monitor **power** control might be devised. **...** one of the signals provided to the monitor; and a **power** manager **circuit** associated with the monitor **configured** to selectively **power circuits** in the **...**

Cited by 63 - Related articles - All 2 versions

Low-**power circuit** and method for providing rapid frequency lock in a wireless communications **device**
MD Stoop... - US Patent 5,767,791, 1998 - Google Patents
... [54] LOW-**POWER CIRCUIT** AND METHOD FOR PROVIDING RAPID FREQUENCY LOCK IN A WIRELESS COMMUNICATIONS **DEVICE** [75] Inventors: Michael ... patient, and a central station which receives, displays and monitors the patient data received (**via** RF) from ...
Cited by 78 - Related articles - All 2 versions

Create email alert

1 2 3 4 5 6 7 8 9 10 Next

device configured to receive power v Search

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RESPONSE UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP ART UNIT 2438

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: April 30, 2012 (Date) /Paul T. Seegers/ Paul T. Seegers, # 66,621

RESPONSE TO FINAL OFFICE ACTION MAILED MARCH 13, 2012

This paper is submitted in response to a Final Office Action of March 13, 2012, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

Lenovo
Ex. 1004 - Page 333

IN THE CLAIMS:

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1-33. (Canceled)

34. (Currently Amended) An apparatus, comprising:

a processor configured to control one or more functions of a network device having a network interface, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator; ~~and~~

a management bus; and

a bus controller coupled to the processor via the management bus and coupled to a system bus of the network device distinct from the management bus, wherein the bus controller is configured to receive the encrypted form of the management requests from the system bus, and to convey the encrypted form of the management requests to the processor via the management bus;

wherein the processor is configured to decrypt the encrypted form of the management requests.

35. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device.

36. (Previously Presented) The apparatus of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

Lenovo
Ex. 1004 - Page 334

37. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the apparatus is configured to cycle the power received by the network device via the second power circuit.

38. (Previously Presented) The apparatus of claim 37, wherein the apparatus is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

39. (Previously Presented) The apparatus of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection.

40. (Previously Presented) The apparatus of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to implement a firewall that restricts traffic received from the system bus.

42-47. (Canceled)

48. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a component within the network device.

Lenovo
Ex. 1004 - Page 335

49. (Currently Amended) A method, comprising:

~~a management device~~ receiving, by a bus controller of a management device, an encrypted form of management requests via a system bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator;

conveying the encrypted form of management requests from the bus controller to a processor of management device via a management bus of the management device;

~~the management device~~ decrypting, by the processor, the encrypted form of the management requests; and

~~the management device~~ controlling, by the processor, one or more functions of the network device according to the management requests.

50. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a domain name service protocol.

51. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network time protocol.

52. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network management protocol.

53. (Currently Amended) The method of claim 49, further comprising:

~~the management device~~ establishing, by the management device, a virtual private network connection with an access control server configured to authenticate the remote administrator.

Lenovo
Ex. 1004 - Page 336

54. (Currently Amended) The method of claim 49, further comprising:

~~the management device~~ receiving, by the management device, additional management requests from the remote administrator via a network interface of the management device, and wherein the additional management requests are not received via the system bus of the network device.

55. (Previously Presented) The method of claim 54, wherein the network interface of the management device is a telephone-line interface.

56. (Currently Amended) The method of claim 49, further comprising:

~~the management device~~ receiving, by the management device, power via a first power circuit separate from a second power circuit of the network device; and

~~the management device~~ cycling, by the management device, power from the second power circuit to reset the network device.

57. (New) The method of claim 49, wherein the management device is a card including the processor and the bus controller, where the card is configured to be inserted into the network device via a card interface.

58. (New) The method of claim 49, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

59. (New) The method of claim 49, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the management device is distinct from the processor included in the network device.

60. (New) The apparatus of claim 34, wherein the apparatus is a card configured to be inserted into the network device via a card interface.

Lenovo
Ex. 1004 - Page 337

61. (New) The apparatus of claim 34, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

62. (New) The apparatus of claim 34, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the apparatus is distinct from the processor included in the network device.

Lenovo
Ex. 1004 - Page 338

REMARKS:

Claims 34-41 and 48-56 were pending in the application. Claims 34, 49, 53, 54, and 56 have been amended. Claims 57-62 have been added. Therefore, claims 34-41 and 48-62 are now pending in this application.

Support for the claim amendments presented herein can be found throughout the specification including, but not limited, to paragraphs [0006], [0007], [0040]-[0042], [0056], [0092], [0106]-[0109], [0142], and [0144] and Figs. 19 and 23-29.

Examiner Interview

Applicant's undersigned representative and the Examiner conducted a telephone interview on April 30, 2012. The Examiner and Applicant's representative discussed amendments similar to those presented herein. Applicant thanks the Examiner for her courtesy in conducting the interview. Applicant's remarks below reflect the substance of the interview.

Allowable Subject Matter

Claims 37, 38, and 56 are indicated as being allowable if rewritten in independent form. Applicant appreciates the Examiner's consideration of these claims.

Claim Objections

Claim 49 is objected to for reciting a "method, comprising: a management device… ." Applicant respectfully submits that claim 49 is not attempting to claim a method comprising hardware as traditionally recited in system claims; rather, the claim is reciting that the "management device" is the subject performing the "receiving," "decrypting," and "controlling" steps of the method. While Applicant disagrees with the objection, Applicant has amended claim 49 in a manner believed to address the objection.

Applicant has amended the claim status to correctly indicate that claims 1-33 have been canceled as requested by the Examiner.

Lenovo
Ex. 1004 - Page 339

Section 103 Rejections

All independent claims are rejected under 35 U.S.C. § 103(a) as being unpatentable over Schelling (U.S. Patent No. 6,954,864) in view of Hesselink, et al. (U.S. Patent No. 7,120,692). Applicant submits that the amended claims are patentably distinct as set forth below.

Schelling is concerned with "a reliable way to remotely place a computing device into a low power state that does not require the operating system to be in a fully functional and operating state, and that does not require additional hardware components be built into the managed device." Schelling 1:38-44. Schelling discloses "an enhanced network interface is introduced which can receive an appropriate control signal from a remote electronic device, communicate with a basic input/output system (BIOS) of a host computing device, and place the host computing device into a select one of a number of low power states." *Id.* at 2:11-17. An "example computing device" including such a "enhanced network interface 116" is illustrated in Fig. 1 below:

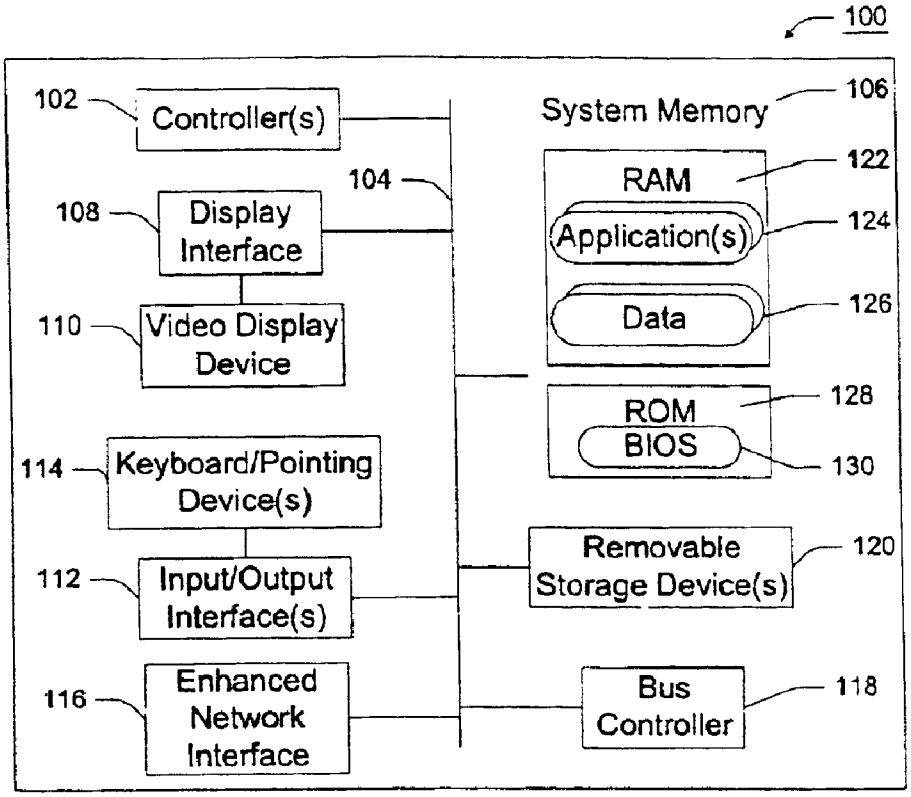


FIG. 1

Lenovo
Ex. 1004 - Page 340

(*id.*. at 2:32 and 3:5-6). As shown, the "computing device 100" also includes "controller(s) 102," "a bus 104," and a "bus controller 118."

Claim 34 recites an "apparatus" that includes "a processor configured to control one or more functions of a network device having a network interface" and "a bus controller." Claim 34 has been amended to recite that the "apparatus" further includes "a management bus" and that the "bus controller [is] coupled to the processor via the management bus and coupled to a system bus of the network device distinct from the management bus." Amended claim 34 further recites that the "the encrypted form of the management requests [is conveyed] to the processor via the management bus."

The Examiner's position is that Schelling's computing device 100 teaches the recited "network device" of claim 34 and that Schelling's bus 104 and bus controller 118 teach the recited "system bus" and "bus controller," respectively[1]. Office Action at 3. To extent the Examiner is asserting that Schelling's bus controller 118 teaches the recited "bus controller" of claim 34, Applicant submits that Schelling's bus controller 118 cannot be said to teach or suggest the recited "bus controller" of amended claim 34 as controller 118 is not "coupled to [a] processor via [a] management bus and coupled to a system bus of the network device distinct from the management bus." Rather, controller 118 is merely coupled to bus 104. *See* Schelling Fig. 1 and 3:25-29. Still further, claim 34 specifies that a "form of the management requests" is "receive[d]" by the "bus controller" "from the system bus" and is "convey[ed] by the "bus controller" "to the processor via the management bus." As Schelling describes bus controller 118 being associated with only bus 104, it therefore follows that Schelling cannot be said to teach or suggest these additional features of claim 34.

Applicant therefore submits that claim 34 and its dependent claims are patentably distinct over the cited references. Independent claim 49 and its respective dependent claims are believed to also distinguish over the cited references for at least reasons similar to those provided for claim 34.

[1] The Examiner does not assert that Hesselink teaches these features of claim 34. Rather, Hesselink is cited for teaching an "encryption/decryption process." Office Action at 4.

Lenovo
Ex. 1004 - Page 341

CONCLUSION:

Applicant respectfully submits the application is in condition for allowance, and an early notice to that effect is requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above-referenced application from becoming abandoned, Applicant hereby petitions for such extension.

The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Respectfully submitted,

Date: April 30, 2012

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

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Lenovo
Ex. 1004 - Page 342

Electronic Acknowledgement Receipt

EFS ID:	12670031
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers
Filer Authorized By:	
Attorney Docket Number:	6257-62712
Receipt Date:	30-APR-2012
Filing Date:	29-NOV-2007
Time Stamp:	22:51:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_to_Final_OA_03_13_12.pdf	127003 d02aeef4e53d93a286d19ed77d7a5ae18ad7a5bb	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment After Final	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	10
Warnings:			
Information:			
	Total Files Size (in bytes):	127003	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/946,976	11/29/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
			TOTAL			TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

AMENDMENT 04/30/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 23	Minus	** 29	= 0	X $ =		OR	X $60=	0
Independent (37 CFR 1.16(h))	* 2	Minus	***4	= 0	X $ =		OR	X $250=	0
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/CATHERINE SMITH/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 05/08/2012

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
05/08/2012	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

All participants (applicant, applicant's representative, PTO personnel):

(1) *THANHNGA B. TRUONG*. (3)_____.

(2) *Mr. Paul T. Seegers*. (4)_____.

Date of Interview: *30 April 2012*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *34 and new propose claims 57-59*.

Identification of prior art discussed: *N/A*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant's Representative discussed claimed invention related to the proposed amendment with new limitation "a management bus" and mentioned that Figures 23-29 would support this management bus as SMACC CPU Bus. However, Examiner does not see how said management bus could link or equate to said SMACC CPU Bus. No agreement was reached.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☒ Attachment

/THANHNGA B TRUONG/ Primary Examiner, Art Unit 2438	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 11/946,976	**Applicant(s)** CARLEY, JEFFREY ALAN
	Examiner THANHNGA B. TRUONG	**Art Unit** 2438

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 30 April 2012 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires _____months from the mailing date of the final rejection.
   b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☒ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: *See Continuation Sheet*. (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.
12. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
13. ☒ Other: Interview Summary for April 30, 2012 is attached.

STATUS OF CLAIMS

14. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed: None.
    Claim(s) objected to: 37,38 and 56.
    Claim(s) rejected: 34-36,39-41 and 48-55.
    Claim(s) withdrawn from consideration: None.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438

Continuation of 3. NOTE: The newly amended independent claims 34 and 49 would raise new issues that would require further consideration and/or thorough search. In addition, the newly amended limitation "a management bus" does not support anywhere in the specification as well as the drawings, which construe new matter.

Interview Agenda

Discussion of Possible Amendments to Claim 34

34. (Previously Presented) An apparatus, comprising:

a processor configured to control one or more functions of a network device having a network interface, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator; and

a bus controller coupled to the processor via an internal bus and a system bus of the network device, wherein the bus controller is configured to receive the encrypted form of the management requests from the system bus, and to convey the encrypted form of the management requests to the processor via the internal bus, wherein the internal bus is distinct from the system bus of the network device;

wherein the processor is configured to decrypt the encrypted form of the management requests.

Applicant notes that support for these amendments can be found, for example, in Figs. 23-29.

Possible Dependent Claims

57. (New) The apparatus of claim 34, wherein the apparatus is a card configured to be inserted into the network device via a card interface.

58. (New) The apparatus of claim 34, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

59. (New) The apparatus of claim 34, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the apparatus is distinct from the processor included in the network device.

RESPONSE UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP ART UNIT 2438

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: April 30, 2012 (Date) /Paul T. Seegers/ Paul T. Seegers, # 66,621

RESPONSE TO FINAL OFFICE ACTION MAILED MARCH 13, 2012

This paper is submitted in response to a Final Office Action of March 13, 2012, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

DO NOT ENTER: /TBT/

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	11/946,976	Filing Date	2007-11-29	Docket Number (if applicable)	6257-62712	Art Unit	2438
First Named Inventor	Jeffrey Alan Carley			Examiner Name	Truong, Thanhnga B.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 501505

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Paul T. Seegers/	Date (YYYY-MM-DD)	2012-06-11
Name	Paul T. Seegers	Registration Number	66621

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number:	11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date:	November 29, 2007	§	Group/Art Unit: 2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No. 1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: June 11, 2012 /Paul T. Seegers/
Date Paul T. Seegers, # 66,621

RESPONSE TO FINAL OFFICE ACTION MAILED MARCH 13, 2012

This paper is submitted in response to a Final Office Action of March 13, 2012, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

Lenovo
Ex. 1004 - Page 356

IN THE CLAIMS:

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1-33. (Canceled)

34. (Currently Amended) An apparatus, comprising:

a processor configured to control one or more functions of a network device having a network interface, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator; ~~and~~

a management bus; and

a bus controller coupled to the processor via the management bus, wherein the bus controller is also coupled to a system bus of the network device that is distinct from the management bus, wherein the bus controller is configured to receive the encrypted form of the management requests from the system bus, and to convey the encrypted form of the management requests to the processor via the management bus;

wherein the processor is configured to decrypt the encrypted form of the management requests.

35. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device.

36. (Previously Presented) The apparatus of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

Lenovo
Ex. 1004 - Page 357

37. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the apparatus is configured to cycle the power received by the network device via the second power circuit.

38. (Previously Presented) The apparatus of claim 37, wherein the apparatus is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

39. (Previously Presented) The apparatus of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection.

40. (Previously Presented) The apparatus of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to implement a firewall that restricts traffic received from the system bus.

42-47. (Canceled)

48. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a component within the network device.

Lenovo
Ex. 1004 - Page 358

49. (Currently Amended) A method, comprising:

~~a management device~~ receiving, by a bus controller of a management device, an encrypted form of management requests via a system bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator;

conveying the encrypted form of management requests from the bus controller to a processor of management device via a management bus of the management device;

~~the management device~~ decrypting, by the processor, the encrypted form of the management requests; and

~~the management device~~ controlling, by the processor, one or more functions of the network device according to the management requests.

50. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a domain name service protocol.

51. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network time protocol.

52. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network management protocol.

53. (Currently Amended) The method of claim 49, further comprising:

~~the management device~~ establishing, by the management device, a virtual private network connection with an access control server configured to authenticate the remote administrator.

Lenovo
Ex. 1004 - Page 359

54. (Currently Amended) The method of claim 49, further comprising:

~~the management device~~ receiving, by the management device, additional management requests from the remote administrator via a network interface of the management device, and wherein the additional management requests are not received via the system bus of the network device.

55. (Previously Presented) The method of claim 54, wherein the network interface of the management device is a telephone-line interface.

56. (Currently Amended) The method of claim 49, further comprising:

~~the management device~~ receiving, by the management device, power via a first power circuit separate from a second power circuit of the network device; and

~~the management device~~ cycling, by the management device, power from the second power circuit to reset the network device.

57. (New) The method of claim 49, wherein the management device is a card including the processor and the bus controller, wherein the card is configured to be inserted into the network device via a card interface.

58. (New) The method of claim 49, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

59. (New) The method of claim 49, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the management device is distinct from the processor included in the network device.

60. (New) The apparatus of claim 34, wherein the apparatus is a card configured to be inserted into the network device via a card interface.

Lenovo
Ex. 1004 - Page 360

61. (New) The apparatus of claim 34, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

62. (New) The apparatus of claim 34, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the apparatus is distinct from the processor included in the network device.

Lenovo
Ex. 1004 - Page 361

REMARKS:

Claims 34-41 and 48-56 were pending in the application. Claims 34, 49, 53, 54, and 56 have been amended. Claims 57-62 have been added. Therefore, claims 34-41 and 48-62 are now pending in this application.

Examiner Interview and Response to Interview Summary

Applicant's undersigned representative and the Examiner conducted a telephone interview on April 30, 2012. Applicant's representative proposed amendments similar to those presented herein. The Examiner asked Applicant's representative to provide support for the new features being added to the claims. Applicant's representative responded by noting that support could be found, for example, in Figs. 23-29 and the accompanying description.

In the Examiner's Interview Summary of May 8, 2012 (as well as in the Advisory Action issued on the same day), the Examiner asserts that the newly recited "management bus" is not supported by the Specification. Applicant respectfully disagrees. Paragraph [0092], for example, indicates that, in some embodiments, "it may be necessary to utilize a controller chip for the SMACC processor to access the necessary bus as illustrated in FIGS. 28 and 29." Figs 28 and 29 depict this controller chip and the processor as being coupled via an SMACC interface bus. With respect to the term "management," Applicant notes that this term is supported by the SMACC acronym, which is defined in paragraph [0040] as "Secure Management Access Control for Computer Chipset (SMACC)" (emphasis added). Still further, paragraph [0042] describes the SMACC "processor [as] receiving management information and interacting with the control functions of [a] device." Applicant therefore submits that the term "management bus" is supported by at least these portions of the Specification.

Allowable Subject Matter

Claims 37, 38, and 56 are indicated as being allowable if rewritten in independent form. Applicant appreciates the Examiner's consideration of these claims.

Lenovo
Ex. 1004 - Page 362

Claim Objections

Claim 49 is objected to for reciting a "method, comprising: a management device… ." Applicant respectfully submits that claim 49 is not attempting to claim a method comprising hardware as traditionally recited in system claims; rather, the claim is reciting that the "management device" is the subject performing the "receiving," "decrypting," and "controlling" steps of the method. While Applicant disagrees with the objection, Applicant has amended claim 49 in a manner believed to address the objection.

Applicant has amended the claim status to correctly indicate that claims 1-33 have been canceled as requested by the Examiner.

Section 103 Rejections

All independent claims are rejected under 35 U.S.C. § 103(a) as being unpatentable over Schelling (U.S. Patent No. 6,954,864) in view of Hesselink, et al. (U.S. Patent No. 7,120,692). Applicant submits that the amended claims are patentably distinct as set forth below.

Schelling is concerned with "a reliable way to remotely place a computing device into a low power state that does not require the operating system to be in a fully functional and operating state, and that does not require additional hardware components be built into the managed device." Schelling 1:38-44. Schelling discloses "an enhanced network interface is introduced which can receive an appropriate control signal from a remote electronic device, communicate with a basic input/output system (BIOS) of a host computing device, and place the host computing device into a select one of a number of low power states." *Id.* at 2:11-17. An "example computing device" including such a "enhanced network interface 116" is illustrated in Fig. 1 below:

Lenovo
Ex. 1004 - Page 363

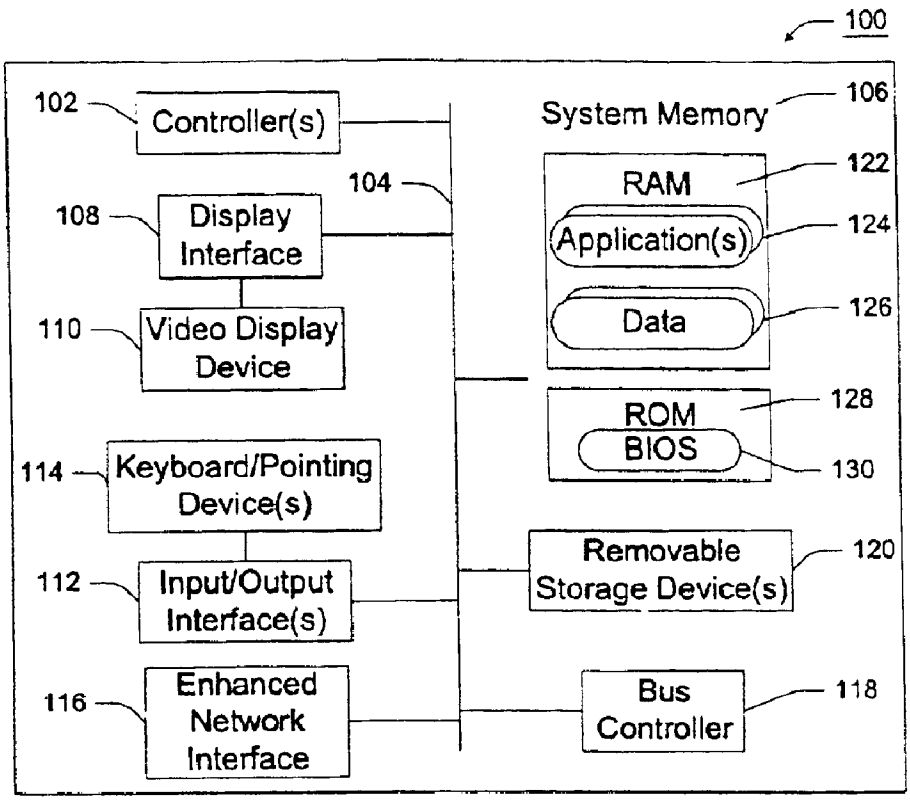


FIG. 1

(*id.*. at 2:32 and 3:5-6). As shown, the "computing device 100" also includes "controller(s) 102," "a bus 104," and a "bus controller 118."

Claim 34 recites an "apparatus" that includes "a processor configured to control one or more functions of a network device having a network interface" and "a bus controller." Claim 34 has been amended to recite that the "apparatus" further includes "a management bus" and that the "bus controller [is] coupled to the processor via the management bus" and "is also coupled to a system bus of the network device that is distinct from the management bus." Amended claim 34 further recites that the "the encrypted form of the management requests [is conveyed] to the processor via the management bus."

The Examiner's position is that Schelling's computing device 100 teaches the recited "network device" of claim 34 and that Schelling's bus 104 and bus controller 118 teach the recited "system bus" and "bus controller," respectively[1]. Office Action at 3. To extent the

[1] The Examiner does not assert that Hesselink teaches these features of claim 34. Rather, Hesselink is cited for teaching an "encryption/decryption process." Office Action at 4.

Lenovo
Ex. 1004 - Page 364

Examiner is asserting that Schelling's bus controller 118 teaches the recited "bus controller" of claim 34, Applicant submits that Schelling's bus controller 118 cannot be said to teach or suggest the recited "bus controller" of amended claim 34 as controller 118 is not "coupled to [a] processor via [a] management bus" and "also coupled to a system bus of the network device that is distinct from the management bus." Rather, controller 118 is merely coupled to bus 104. *See* Schelling Fig. 1 and 3:25-29. Still further, claim 34 specifies that a "form of the management requests" is "receive[d]" by the "bus controller" "from the system bus" and is "convey[ed] by the "bus controller" "to the processor via the management bus." As Schelling describes bus controller 118 being associated with only bus 104, it therefore follows that Schelling cannot be said to teach or suggest these additional features of claim 34.

Applicant therefore submits that claim 34 and its dependent claims are patentably distinct over the cited references. Independent claim 49 and its respective dependent claims are believed to also distinguish over the cited references for at least reasons similar to those provided for claim 34.

Lenovo
Ex. 1004 - Page 365

CONCLUSION:

Applicant respectfully submits the application is in condition for allowance, and an early notice to that effect is requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above-referenced application from becoming abandoned, Applicant hereby petitions for such extension.

The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Also filed herewith are the following items:

☒ Request for Continued Examination

Respectfully submitted,

Date: June 11, 2012

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

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Ex. 1004 - Page 366

Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	Paul T. Seegers/Deena Beasley
Attorney Docket Number:	6257-62712

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	1801	1	930	930
		Total in USD ($)		**930**

Electronic Acknowledgement Receipt

EFS ID:	12984533
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	11-JUN-2012
Filing Date:	29-NOV-2007
Time Stamp:	17:03:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$930
RAM confirmation Number	4314
Deposit Account	501505
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees) Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees) Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE_Transmittal.pdf	697273 e6c553885eda4376479c2eb1b7e9d4be9862c572	no	3
Warnings:					
Information:					
2		Response_to_AA.pdf	126696 fb024b13afb55460670365fff79d30f1e2954f99	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment Submitted/Entered with Filing of CPA/RCE	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	11

Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30514 c64dd64a2588d5a1aa03163b044aba4960d78882	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	854483	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/946,976	11/29/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
			TOTAL			TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

AMENDMENT 06/11/2012

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 23	Minus	** 29	= 0	X $ =		OR	X $60=	0
Independent (37 CFR 1.16(h))	* 2	Minus	***4	= 0	X $ =		OR	X $250=	0
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/PEARLIE A. FENNELL/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 08/10/2012

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	
ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
08/10/2012	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

Office Action Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *11 June 2012*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *1-62* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *34-41,48-62* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *29 November 2007* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the communication filed on June 11, 2012. Claims 1-62 are pending. Claims 1-33 and 42-47 are cancelled by the applicant. Claims 57-62 are newly added by the applicant. At this time, claims 34-41 and 48-62 are rejected.

In preparing for this office action, Examiner has pointed out particular references contained in the prior art(s) of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claims, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully each reference in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Response to Arguments

2. Applicant's arguments with respect to claims 34-41 and 48-62, have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Applicant has argued that "a management bus" being supported by the instant specification (see applicant's remark, page 7).

Examiner respectfully disagrees with the applicant and still maintains that the term "a management bus" is totally different from what applicant has explained in the remarks and yet, the applicant is merely proved that "a management bus" is the same as or equivalent to SMACC CPU Bus that shows in all drawings that related to SMACC CPU Bus.

Thus, the newly amended limitations of "a management bus", cited in claims 34 and 49 introduce new matter. Therefore it is not necessary to provide new art due to new matter.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 34 and 49 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Referring to claims 34 and 49, these claims recite limitations of "**a management bus**" in which the above underlined language is completely silent and/or does not support by the instant specification. Thus, claims 34 and 49 introduce new matter. Appropriate correction is required by the applicant.

As to dependent claims 35-41, 48, 50-62, they are rejected under 35 U.S.C. § 112, first paragraph, for depending upon the new subject matter recited by independent claims 34 and 49, respectively.

Allowable Subject Matter

6. The indicated allowability of claims 37, 38, and 56 are withdrawn in view of the newly discovered new matter of claims 34 and 49. Rejections based on the new matter above.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached at 571-272-3787. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/Thanhnga B. Truong/
Primary Examiner, Art Unit 2438
August 7, 2012

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

SEARCHED

Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT
710	17, 107, 108	6/3/11	TBT
709	203,208,225-226,229	3/2/12; 8/7/12	TBT
726	2-3	3/2/12; 8/7/12	TBT
713	300,310,320,330,340	3/2/12; 8/7/12	TBT
710	119, 305	8/7/12	TBT

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10; 6/3/11	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10; 6/3/11	TBT
Consulted with PE Angel Castro and PE Ponnereay Pich for restriction by original presentation	11/22/11	TBT
Inventor Name Searched; Assignee Searched	3/2/12; 3/6/12; 8/7/12	TBT
TEXT Searched; EAST Searched; NPL Searched - Google/Patents and Scholar; IEEE	3/2/12; 8/7/12	TBT

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

+You Search Images Maps Play YouTube News Gmail Documents Calendar More

Google bus controller with management bus Sign in

Search About 3,540 results (0.32 seconds)

Web
Images
Maps
Videos
News
Shopping
Patents
More

Any date
Restrict by filing date
Restrict by issue date

Any filing status
Applications
Issued patents

Any patent type
Utility
Design
Plant
Defensive Publication
Additional Improvement
Statutory Invention Registration

Sorted by relevance
Filing date: latest
Filing date: oldest

Method and system for **managing** system **bus** communications in a data ...



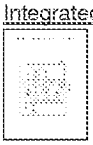
www.google.com/patents/US5754804
US Pat. - Filed Jan 30, 1996 - Issued May 19, 1998 - Harry Cheselka - International Business Machines Corporation
The first **bus controller** is then coupled to a **management bus**, and the second bus ... A second **management bus** may be coupled to the first **bus controller**, the ...
Overview - Abstract - Drawing - Description - Claims

Star intelligent platform **management bus** topology



www.google.com/patents/US20030130989
US Pat. App - Filed Jan 10, 2002 - Peter A. Hawkins - INTEL CORPORATION
Overview - Abstract - Drawing - Description - Claims

Integrated gigabit ethernet PCI-X **controller**



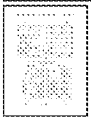
www.google.com/patents/US7444455
US Pat. - Filed Feb 16, 2006 - Issued Oct 28, 2008 - Steven B. Lindsay - Broadcom Corporation
The **management bus controller** is adapted to employ an Alert Standard Format (ASF) specification protocol, a System **Management Bus** (SMBus) specification ...
Overview - Abstract - Drawing - Description - Claims

Integrated gigabit ethernet PCI-X **controller**



www.google.com/patents/US20020194415
US Pat. App - Filed Apr 24, 2002 - Steven B. Lindsay
The **management bus controller** is adapted to employ an Alert Standard Format (ASF) specification protocol, a System **Management Bus** (SMBus) specification ...
Overview - Abstract - Drawing - Description - Claims

DISTRIBUTED POWER **MANAGEMENT**



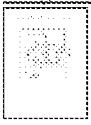
www.google.com/patents/US20080276110
US Pat. App - Filed May 3, 2007 - Lorenzo Indiani
A power **management bus** for controlling power over multiple device subsystems includes a master power **bus controller** which transmits power management ...
Overview - Abstract - Drawing - Description - Claims

System Power Capping Using Information Received From The Installed ...



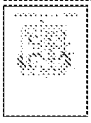
www.google.com/patents/US20090265564
US Pat. App - Filed Apr 16, 2008 - Raymond Mathew Clemo - INTERNATIONAL BUSINESS MACHINES CORPORATION
A computer system comprising a motherboard and a power supply having an associated power **management bus controller** with memory storing the power ...
Overview - Abstract - Drawing - Description - Claims

Integrated gigabit ethernet PCI-X **controller**



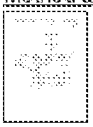
www.google.com/patents/US20060143344
US Pat. App - Filed Feb 16, 2006 - Steven B. Lindsay
Overview - Abstract - Drawing - Description - Claims

Method and apparatus to allow an external system **management** ...



www.google.com/patents/US20030188066
US Pat. App - Filed Mar 28, 2002 - Atul Kwatra
Method and apparatus to allow an external system management **controller** to . ... the input command is a system **management bus** command to set a thermal ...
Overview - Abstract - Drawing - Description - Claims

Method and apparatus for provision, access and **control** of an event ...



www.google.com/patents/US20040003160
US Pat. App - Filed Jun 28, 2002 - John P. Lee
If **bus** access is granted, the SMB buffer read command may be sent to a module **...** to the internal **bus**, wherein the system **management controller** to send a read **...**
Overview - Abstract - Drawing - Description - Claims

1 2 3 4 5 6 7 8 9 10 Next

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S199	2	"5754804".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/06 11:46
S203	18	"CARLEY, JEFFREY ALAN"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:23
S204	16	"ENGEDI TECHNOLOGIES, INC"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:44
S205	2	S203 and ((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:52
S206	1	S204 and ((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:52
S207	8007	((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:52
S208	409	S207 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:53
S209	26	S208 and (receiv$3 with (power with (power with circuit$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:54
S210	0	S209 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:54
S211	3448	(710/119,305).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 15:57
S212	146	S211 and ((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:00
S213	13	S212 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:00

S214	2	S213 and (receiv$3 with (power with (power with circuit$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:00
S215	0	S213 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:01
S216	34841	(709/203,208,225-226,229).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:01
S217	170	S216 and ((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:01
S218	18	S217 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:01
S219	1	S218 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:02
S220	5828	(726/2-3).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:02
S221	23	S220 and ((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:02
S222	1	S221 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:02
S223	1	S221 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:03
S224	11591	(713/300,310,320,330,340).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:03
S225	639	S224 and ((bus with controll$3) with (management with bus))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:03
S226	22	S225 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:03
S227	0	S226 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/08/07 16:04

EAST Search History (Interference)

<This search history is empty>

8/7/2012 5:14:18 PM
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012	08/06/2012				
	1	✓	✓	÷	-	-				
	2	✓	✓	÷	-	-				
	3	✓	✓	÷	-	-				
	4	✓	✓	÷	-	-				
	5	✓	✓	÷	-	-				
	6	✓	✓	-	-	-				
	7	✓	✓	-	-	-				
	8	✓	✓	-	-	-				
	9	✓	✓	-	-	-				
	10	✓	✓	-	-	-				
	11	✓	✓	-	-	-				
	12	✓	✓	-	-	-				
	13	✓	✓	-	-	-				
	14	✓	✓	-	-	-				
	15	✓	✓	-	-	-				
	16	✓	✓	-	-	-				
	17	✓	✓	-	-	-				
	18	✓	✓	-	-	-				
	19	✓	✓	-	-	-				
	20	✓	✓	-	-	-				
	21	✓	✓	-	-	-				
	22	✓	=	-	-	-				
	23	✓	=	-	-	-				
	24			÷	-	-				
	25			÷	-	-				
	26			÷	-	-				
	27			÷	-	-				
	28			÷	-	-				
	29			÷	-	-				
	30			÷	-	-				
	31			÷	-	-				
	32			÷	-	-				
	33			÷	-	-				
	34			÷	✓	✓				
	35			÷	✓	✓				
	36			÷	✓	✓				

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012	08/06/2012				
	37			÷	O	O				
	38			÷	O	O				
	39			÷	✓	✓				
	40			÷	✓	✓				
	41			÷	✓	✓				
	42			÷	-	-				
	43			÷	-	-				
	44			÷	-	-				
	45			÷	-	-				
	46			÷	-	-				
	47			÷	-	-				
	48				✓	✓				
	49				✓	✓				
	50				✓	✓				
	51				✓	✓				
	52				✓	✓				
	53				✓	✓				
	54				✓	✓				
	55				✓	✓				
	56				O	O				
	57					✓				
	58					✓				
	59					✓				
	60					✓				
	61					✓				
	62					✓				

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number:	11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date:	November 29, 2007	§	Group/Art Unit: 2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No. 1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: October 19, 2012 /Paul T. Seegers/
Date Paul T. Seegers, # 66,621

RESPONSE TO OFFICE ACTION MAILED AUGUST 10, 2012

This paper is submitted in response to an Office Action of August 10, 2012, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

Lenovo
Ex. 1004 - Page 386

IN THE DRAWINGS:

Submitted with this document are replacement sheets of the drawings for Figs. 28 and 29. The previous versions of these figures refer to the acronym "SMACCI." Applicant believes that the letter I should not have been included in this acronym and has removed it in the replacement sheets. Applicant also believes no substantive changes or changes that would constitute new matter have been made.

Lenovo
Ex. 1004 - Page 387

IN THE CLAIMS:

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1-33. (Canceled)

34. (Currently Amended) An apparatus, comprising:

a processor configured to control one or more functions of a network device having a network interface, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator;

a ~~management~~ first bus; and

a bus controller coupled to the processor via the ~~management~~ first bus, wherein the bus controller is also coupled to a ~~system~~ second bus of the network device that is distinct from the ~~management~~ first bus, wherein the bus controller is configured to receive the encrypted form of the management requests from the ~~system~~ second bus, and to convey the encrypted form of the management requests to the processor via the ~~management~~ first bus;

wherein the processor is configured to decrypt the encrypted form of the management requests.

35. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device.

36. (Previously Presented) The apparatus of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

Lenovo
Ex. 1004 - Page 388

37. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the apparatus is configured to cycle the power received by the network device via the second power circuit.

38. (Previously Presented) The apparatus of claim 37, wherein the apparatus is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

39. (Previously Presented) The apparatus of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection.

40. (Previously Presented) The apparatus of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (Currently Amended) The apparatus of claim 34, wherein the apparatus is configured to implement a firewall that restricts traffic received from the second ~~system~~ bus.

42-47. (Canceled)

48. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a component within the network device.

Lenovo
Ex. 1004 - Page 389

49. (Currently Amended) A method, comprising:

receiving, by a bus controller of a management device, an encrypted form of management requests via a ~~system~~ first bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator;

conveying the encrypted form of management requests from the bus controller to a processor of management device via a ~~management~~ second bus of the management device;

decrypting, by the processor, the encrypted form of the management requests; and

controlling, by the processor, one or more functions of the network device according to the management requests.

50. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a domain name service protocol.

51. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network time protocol.

52. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network management protocol.

53. (Previously Presented) The method of claim 49, further comprising:

establishing, by the management device, a virtual private network connection with an access control server configured to authenticate the remote administrator.

Lenovo
Ex. 1004 - Page 390

54. (Currently Amended) The method of claim 49, further comprising:

receiving, by the management device, additional management requests from the remote administrator via a network interface of the management device, and wherein the additional management requests are not received via the ~~system~~ first bus of the network device.

55. (Previously Presented) The method of claim 54, wherein the network interface of the management device is a telephone-line interface.

56. (Previously Presented) The method of claim 49, further comprising:

receiving, by the management device, power via a first power circuit separate from a second power circuit of the network device; and

cycling, by the management device, power from the second power circuit to reset the network device.

57. (Previously Presented) The method of claim 49, wherein the management device is a card including the processor and the bus controller, wherein the card is configured to be inserted into the network device via a card interface.

58. (Previously Presented) The method of claim 49, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

59. (Previously Presented) The method of claim 49, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the management device is distinct from the processor included in the network device.

60. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a card configured to be inserted into the network device via a card interface.

Lenovo
Ex. 1004 - Page 391

61. (Previously Presented) The apparatus of claim 34, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

62. (Previously Presented) The apparatus of claim 34, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the apparatus is distinct from the processor included in the network device.

Lenovo
Ex. 1004 - Page 392

REMARKS:

Claims 34-41 and 48-62 were pending in the application. Claims 34, 41, 49, and 54 have been amended. Therefore, claims 34-41 and 48-62 remain pending in this application.

Examiner Interview

Applicant's undersigned representative and the Examiner conducted a telephone interview on October 11, 2012 to discuss the current section 112 rejections. Applicant's representative proposed amendments similar to those presented herein. The Examiner indicated that such amendments appeared to address the rejections. Applicant thanks the Examiner for her courtesy in conducting the interview. Applicant's remarks below reflect the substance of the interview.

Section 112 Rejections

Claims 34 and 39 are rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. In particular, the Examiner asserts that the term "management" in the phrase "a management bus" (as recited in claims 34 and 39) is not supported. While Applicant respectfully disagrees, Applicant has amended the claims to replace the terms "management bus" and "system bus" with the terms "first bus" and "second bus."

Applicant respectfully submits that a "first bus" and a "second bus" are supported by the Specification. For example, Fig. 28 depicts an "SMACC Bus" in addition to a "System PCI Bus"; Fig. 29 depicts an "SMACC Bus" in addition to a "System CPU Bus." Various forms of the "SMACC Bus" are also depicted with other buses in Figs. 1, 2, 9-14, 17-20, and 23-27. Paragraph [0092] recites "[i]n these exemplary embodiments, it may be necessary to utilize a controller chip for the SMACC processor to access the necessary bus as illustrated in FIGS. 28 and 29." Paragraph [0107] recites "it is likely that the SMACC card would not be on the same bus as the main CPU." Accordingly, these portions support the claims recitation of the "first bus" and "second bus."

Applicant therefore requests removal of these rejections.

Lenovo
Ex. 1004 - Page 393

CONCLUSION:

Applicant respectfully submits the application is in condition for allowance, and an early notice to that effect is requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above-referenced application from becoming abandoned, Applicant hereby petitions for such extension.

The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Also filed herewith are the following items:

☒ Replacement Drawings (Figs. 28 and 29)

Respectfully submitted,

Date: October 19, 2012

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

Lenovo
Ex. 1004 - Page 394

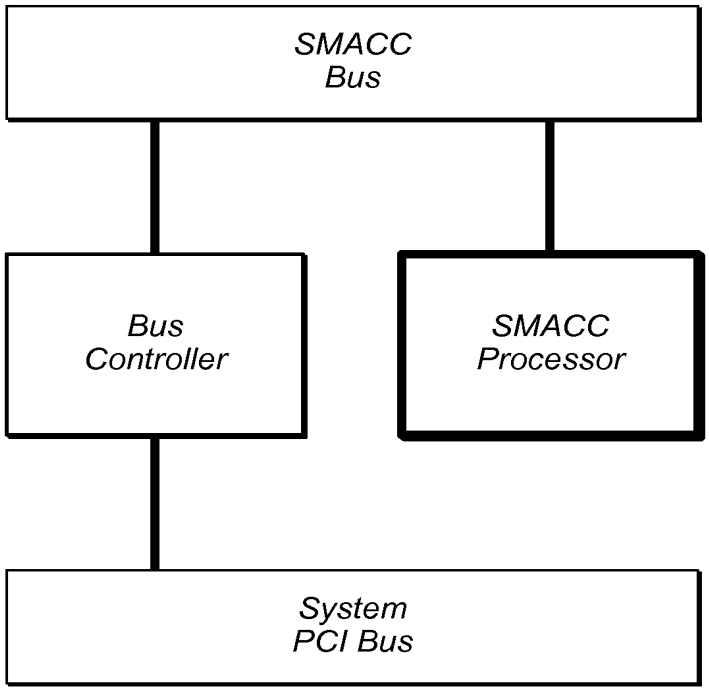


Fig. 28

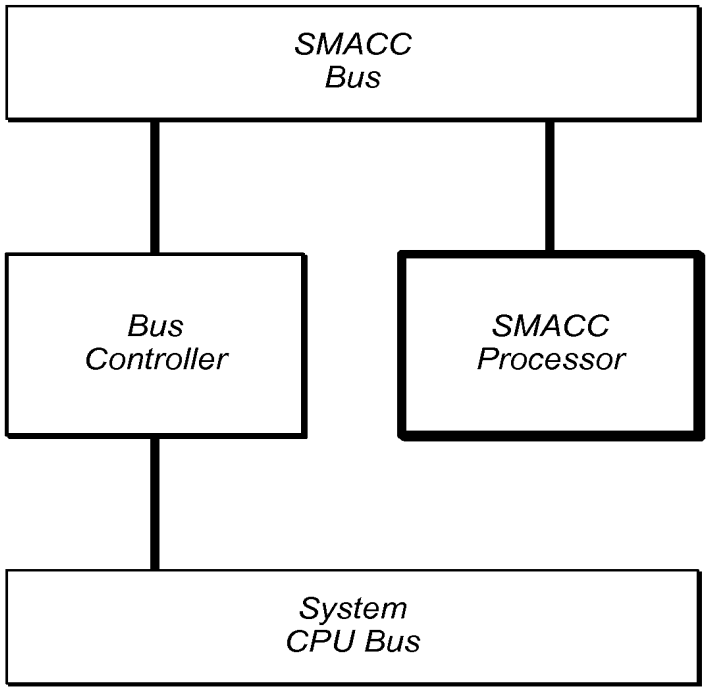


Fig. 29

Electronic Acknowledgement Receipt

EFS ID:	14033447
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	19-OCT-2012
Filing Date:	29-NOV-2007
Time Stamp:	17:11:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_to_OA_08_10_12.pdf	78241 328e7e340bc376c0f9e593c65179c397b4a50707	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Applicant Arguments/Remarks Made in an Amendment	2	2
	Claims	3	7
	Applicant Arguments/Remarks Made in an Amendment	8	9

Warnings:					
Information:					
2	Drawings-only black and white line drawings	Replacement_Sheets.pdf	23823 be3062636fc09dfc73d62fd32cc4861fab1a8988	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	102064		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/946,976	11/29/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☐ RATE ($)	SMALL ENTITY ☐ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 10/19/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 23	Minus	** 29	= 0	X $ =		OR	X $62=	0
Independent (37 CFR 1.16(h))	* 2	Minus	***4	= 0	X $ =		OR	X $250=	0
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/VERONICA DAY EVERETT/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 11/23/2012

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
11/23/2012	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

All participants (applicant, applicant's representative, PTO personnel):

(1) *THANHNGA B. TRUONG*. (3)_____.

(2) *Mr. Paul T. Seegers*. (4)_____.

Date of Interview: *10/11 & 10/30/12*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☒112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *34 and 49*.

Identification of prior art discussed: *Watanabe (US 7,058,740 B2)*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

On October 11, 2012 applicant initiated the interview to address the 112 first rejection and amended claims 34 and 49 to overcome the 112 first rejection. Then on October 30, 2012, examiner initiated the interview to address of the new prior art (Watanabe - US 7,058,740 B2) teaches the first bus and second bus of claims 34 and 49 and proposed an amendment to applicant to move up claims 37, 38 into claim 34 and similar to claims 56 into claim 49 to expedite the compact prosecution to move the case forward. However, applicant refused to consider the proposed amendment. Thus, no agreement was reached for the allowability subject matter of the invention.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/THANHNGA B TRUONG/ Primary Examiner, Art Unit 2438	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Office Action Summary	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *19 October 2012*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☐ Claim(s) _____ is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☒ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *34-41 and 48-62* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

3) ☒ Interview Summary (PTO-413) Paper No(s)/Mail Date. *10/11 & 10/30/12*.

4) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the communication filed on October 19, 2012. Claims 1-62 are pending. Claims 1-33 and 42-47 are cancelled by the applicant. At this time, claims 34-36, 39-41 and 48-55, and 57-62 are rejected.

In preparing for this office action, Examiner has pointed out particular references contained in the prior art(s) of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claims, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully each reference in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Response to Arguments

2. Applicant's arguments filed October 19, 2012, under 35 USC 112, have been fully considered and they are persuasive. Therefore, the previous rejection has been withdrawn.

Applicant's arguments June 11, 2012, under 35 USC 103, have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 34-36, 39-41, 48-55, 57-58, 60-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schelling (US 6,954,864 B2), in view of Watanabe et al (US 7,058,740 B2), and further in view of Hesselink (US 7,120,692 B2).

a. *Referring to claim 34:*

i. Schelling teaches an apparatus comprising:

(1) a processor configured to control one or more functions of a network device having a network interface **(see Figure 1, element 100 – computing device, element 116 – network interface of Schelling)**, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator **(see Figure 1, column 2, lines 9-16 and column 3, lines 50-59 of Schelling)**;

(2) a first bus **(see Figure 1, element 118 - bus controller, element 104 - bus of Schelling and also the combination of teaching between Schelling and Watanabe)**; and

(3) a bus controller coupled to the processor via the first bus **(see Figure 1, element 118 - bus controller, element 104 - bus of Schelling and also the combination of teaching between Schelling and Watanabe)**, wherein the bus controller is also coupled to a second bus of the network device that is distinct from the first bus **(see Figure 1, element 118 - bus controller, element 104 - bus of Schelling and also the combination of teaching between Schelling and Watanabe)**, wherein the bus controller is configured to receive the encrypted form of the management requests from the second bus **(see Figure 1, column 2, lines 9-16 and column 3, lines 25-29 and lines 50-59 of Schelling and also the combination of teaching between Schelling and Watanabe)**, and to convey the encrypted form of the management requests to the processor via first bus **(column 3, lines 60-67 of Schelling and also the combination of teaching between Schelling and Watanabe);** wherein the processor is configured to decrypt the encrypted form of the

management requests **(see combination of teaching below between Schelling and Yale).**

ii. Although Schelling teaches the claimed subject matter, Schelling teaches the first bus as shown in Figure 1, element 104, but is silent on the capability of showing (1) the second bus and (2) data encryption/decryption process. On the other hand, Watanabe teaches (1) first bus and second bus as shown in Figure 1, master bus (1…N) and slave bus (1…K). Hesselink teaches (2) wherein the processor is configured to decrypt the encrypted form of the management requests (column 10, lines 43-58; column 14, line 65 through column 15, line 18 of Hesselink).

iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:

(1) have modified the invention of Schelling with the teaching of Watanabe and Hesselink for improving security of data.

iv. The ordinary skilled person would have been motivated to:

(1) have modified the invention of Schelling with the teaching of Watanabe and Hesselink to protect transferring of data.

b. *Referring to claim 35:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device **(column 2, line 62 through column 3, line 4 and lines 60-67 of Schelling).**

c. *Referring to claim 36:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the bus controller is a peripheral component interconnect (PCI) controller **(column 3, line 18-19 of Schelling).**

d. *Referring to claim 39:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection **(column 3, lines 7-18 of Hesselink)**.

e. *Referring to claim 40:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device **(column 2, lines 7-17; column 3, lines 7-18 of Hesselink).**

f. *Referring to claim 41:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Hesselink and Watanabe further teaches:

(1) wherein the apparatus management device is configured to implement a firewall that restricts traffic received from the second bus **(column 2, lines 7-21 of Hesselink; and Figure 1, masterbus (1…N) and slavebus (1…K) of Watanabe).**

g. *Referring to claim 48:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the apparatus is a component within the network device **(see Figure 1 of Schelling).**

h. *Referring to claim 49:*

i. This claim consist a method to implement claim 1 and is rejected by the same prior art of record.

i. *Referring to claims 50-52:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Schelling further teaches:

(1) wherein the one or more functions are associated with a domain name service protocol; a network time protocol; or a network management protocol **(column 2, lines 19-35; column 4, lines 59-62 of Schelling).**

j. *Referring to claim 53:*

i. This claim has limitations that is similar to those of claim 40, thus it is rejected with the same rationale applied against claim 40 above.

k. *Referring to claim 54:*

i. This claim has limitations that is similar to those of claim 39, thus it is rejected with the same rationale applied against claim 39 above.

l. *Referring to claim 55:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the network interface of the management device is a telephone-line interface **(column 4, lines 50-58; column 9, lines 34-45 of Hesselink)**.

m. *Referring to claim 57:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the management device is a card including the processor and the bus controller, wherein the card is configured to be inserted into the network device via a card interface **(column 7, lines 36-39 of Hesselink)**.

n. *Referring to claims 58 and 61:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Schelling and Hesselink further teaches:

(1) wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router **(column 3, lines 5-9 of Schelling; column 5, lines 20-34 of Hesselink)**.

o. *Referring to claim 60:*

i. The combination of teaching between Schelling, Watanabe, and Hesselink teaches the claimed subject matter. Hesselink further teaches:

(1) wherein the apparatus is a card configured to be inserted into the network device via a card interface **(column 7, lines 36-39 of Hesselink)**.

Allowable Subject Matter

5. Claims 37, 38, 56, 59, 62 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten to incorporate the entire language of claims 37, 38, 56, 59, 62 into their independent claims 34 and 49 including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See

MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached at 571-272-3787. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/Thanhnga B. Truong/
Primary Examiner, Art Unit 2438
November 17, 2012

Notice of References Cited	Application/Control No. 11/946,976	Applicant(s)/Patent Under Reexamination CARLEY, JEFFREY ALAN	
	Examiner THANHNGA B. TRUONG	Art Unit 2438	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,058,740	06-2006	Watanabe et al.	710/110
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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PCMCIA card includes processor and bus controller

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Since 2008
Custom range...

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Sort by date

include patents
include citations

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Computer system with multiple **PC card** controllers and a method of controlling I/O transfers in the system
SA Smith, J Naji - US Patent 5,724,529, 1998 - Google Patents
... At least one **PC card controller** is coupled to the PCI **bus** and at least one other **PC card controller** is coupled to the ISA **bus**. Each **PC card controller** has at least one socket in which a device is connectable, each socket being separately addressable by the **processor** at an I/O ...
Cited by 120 Related articles All 2 versions Cite

Automatic computer **card** insertion and removal algorithm
J Versteeg, FS Lam, P Shah - US Patent 5,555,510, 1996 - Google Patents
... means for supplying back off signals to the CPU and a plurality of line buffers capable of being in a normal and high impedance state, and a plurality of add in **PC card** sockets for receiving **PC** cards, said sockets having multi pin connector that **includes** common address ...
Cited by 180 Related articles All 2 versions Cite

Computer memory cards using flash EEPROM integrated circuit chips and memory-**controller** systems
RF Wallace, RD Norman, E Harari - US Patent 5,663,901, 1997 - Google Patents
... 127 FIG.-10 130 127 123 129 125 FIG.-11 ROM _^154 MICRO- **PROCESSOR** R _ ... Solid-State Memory System", naming Robert and terminates along one side to form the **PC card** connector. ... Norman, Karl MJ Lofgren, Jeffrey D. Stai, Anil Gupta ,. Each of the sub-boards has a line ...
Cited by 287 Related articles All 4 versions Cite

Computer system for concurrent data transferring between graphic **controller** and unified system memory and between CPU and expansion **bus** device
JC Mergard, MS Quimby, CK Wakeland - US Patent 5,841,988, 1998 - Google Patents
... D[7:0] 8, D[15:8] 8, D[23:16] 8, D[31:24] 302 ZD[7:0] 304 7^ Data Steering Logic 220 8, MD[7:0] 8, MD[15:8] 8, SD[7:0] 8 SD[15:8] 228 ii Unified System Memory 222 / 306 \ i 224 IA/**PCMCIA Bus** FIG. ... Computer system 100 **includes** system memory 112 and CPU 114, both ...
Cited by 50 Related articles All 2 versions Cite

Method and system for **PCMCIA card** boot from dual-ported memory
DJ Anderson - US Patent 5,898,889, 1999 - Google Patents
... also be used for semaphore based communications between host 11 and **processor** 31. Accordingly, dual-ported memory 39 **includes** multiple (for example, sixteen) semaphore registers with associated ... 27 ("SRAM") and a FLASH memory 29 are included on **PCMCIA card** 13. ...
Cited by 62 Related articles All 2 versions Cite

Methods and systems for interfacing with an interface powered I/O device
DJ Anderson - US Patent 5,909,586, 1999 - Google Patents
... The cable assembly **includes** a dongle 19 that provides signal interfacing and buffering between host 11, power supply 21 and I ... 65 **PC Card** 15 conforms to the **PC Card** standard entitled "**PC Card** Standard - February 1995" and published by 4 **PCMCIA**/JEIDA, which is ...
Cited by 126 Related articles All 2 versions Cite

Configurable universal serial **bus** (USB) **controller** implemented on a single integrated circuit (IC) chip with media access control (MAC)
J Silverman, MD Rostoker - US Patent 6,370,603, 2002 - Google Patents
... Often, the network **card includes** an Ethernet port ... typically 45 including Ethernet connectors at both ends, can be used to connect the Ethernet port of the network **card** into the ... One solution is to add a **PCMCIA** Ethernet **card** to the portable computer 55 to allow its connection to an ...
Cited by 116 Related articles All 2 versions Cite

PC card controller circuit to detect exchange of PC cards while in suspend mode
RK Chan, YM Huang - US Patent 5,671,368, 1997 - Google Patents
... CPU operates in its normal operating mode. insertion of a **PC Card** into the **PC Card** socket causes the **PC Card** interface-circuit to generate an interrupt signal that is transmitted to the CPU via the host-computer **bus**-interface. 65 The **PC Card controller** also **includes** a suspend ...
Cited by 59 Related articles All 2 versions Cite

Reprogrammable **PCMCIA card** and method and apparatus employing same
HS Michelson - US Patent 5,628,028, 1997 - Google Patents
... Additionally, using application software stored in A typical **PCMCIA card includes** a standard **PCMCIA** host memory, the **processor** selects an ... The typical interface circuit loads the data into a **PCMCIA card** con- **PCMCIA card** also **includes** a **PCMCIA card controller** that fjoUer ...
Cited by 88 Related articles All 2 versions Cite

Industrial field controlling device with **controller** and expansion modules
H Lake, DP Prentice, J Greenup, C Piper... - US Patent ..., 1999 - Google Patents

... or more expansion module segments, each having at least one **PCMCIA card** coupled to ... interfacing to a controlled device, and the expansion module segment **includes** interface modules ... In the **processor** module segment, the **processor** module and the local interface module ...
Cited by 98 Related articles All 2 versions Cite

Create alert

1 2 3 4 5 6 7 8 9 10 Next

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	19	"CARLEY, JEFFREY ALAN"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:48
L9	16	"ENGEDI TECHNOLOGIES, INC"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:49
L10	0	l8 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:50
L11	0	l9 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:50
L12	29417	((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:51
L13	31	l12 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:51
L14	3	l13 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 16:52
L22	3494	(710/119,305).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:07
L23	6	l22 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:08
L24	0	l23 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:11
L25	3	l23 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:11
L26	35949	(709/203,208,225-226,229).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:20

L27	186	l26 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:20
L28	1	l27 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:20
L29	0	l27 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:20
L30	6119	(726/2-3).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:20
L31	28	l30 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:21
L32	1	l31 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:21
L33	0	l31 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:21
L34	11942	(713/300,310,320,330,340).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:21
L35	13	l34 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests))))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:21
L36	1	l35 and ((bus with controller) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:21
L37	1	l35 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2012/10/29 17:22

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L38	3497	(710/119,305).ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:22
L39	4	l38 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests)))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:22
L40	0	l39 and ((bus with controller) with ((system with bus) with (network with device))).clm.	US-PGPUB;	OR	ON	2012/10/29 17:23

			USPAT; UPAD			
L41	1	l39 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:23
L42	36174	(709/203,208,225-226,229).ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:24
L43	102	l42 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests)))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:24
L44	1	l43 and ((bus with controller) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:24
L45	0	l43 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:24
L46	6190	(726/2-3).ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:24
L47	13	l46 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests)))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:24
L48	0	l47 and ((bus with controller) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:25
L49	0	l47 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:25
L50	11986	(713/300,310,320,330,340).ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:25
L51	9	l50 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with requests)))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:25
L52	0	l51 and ((bus with controller) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:25
L53	0	l51 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2012/10/29 17:26

10/29/2012 5:33:15 PM
H:\EAST\Workspaces\Case-11946976-112907.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012	08/06/2012	10/29/2012			
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	2	✓	✓	÷	-	-	-			
	3	✓	✓	÷	-	-	-			
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	5	✓	✓	÷	-	-	-			
	6	✓	✓	-	-	-	-			
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	32			÷	-	-	-			
	33			÷	-	-	-			
	34			÷	✓	✓	✓			
	35			÷	✓	✓	✓			
	36			÷	✓	✓	✓			

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012	08/06/2012	10/29/2012			
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	38			÷	O	O	O			
	39			÷	✓	✓	✓			
	40			÷	✓	✓	✓			
	41			÷	✓	✓	✓			
	42			÷	-	-	-			
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	46			÷	-	-	-			
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	51				✓	✓	✓			
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	57					✓	✓			
	58					✓	✓			
	59					✓	O			
	60					✓	✓			
	61					✓	✓			
	62					✓	O			

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

SEARCHED

Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT
710	17, 107, 108	6/3/11	TBT
709	203,208,225-226,229	3/2/12; 8/7/12; 10/29/12	TBT
726	2-3	3/2/12; 8/7/12; 10/29/12	TBT
713	300,310,320,330,340	3/2/12; 8/7/12; 10/29/12	TBT
710	119, 305	8/7/12; 10/29/12	TBT

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10; 6/3/11	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10; 6/3/11	TBT
Consulted with PE Angel Castro and PE Ponnereay Pich for restriction by original presentation	11/22/11	TBT
Inventor Name Searched; Assignee Searched	3/2/12; 3/6/12; 8/7/12; 10/29/12	TBT
TEXT Searched; EAST Searched; NPL Searched - Google/Patents and Scholar	3/2/12; 8/7/12; 10/29/12	TBT

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

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bus controller coupled to processor via first bus and second bus

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Flexible **processor**-driven SCSI **controller** with buffer memory and local **processor** memory **coupled via** separate **buses**
JS Goldman, JY Chen, TJ Yoon - US Patent 5,740,466, 1998 - Google Patents
... DRIVEN SCSI **CONTROLLER** WITH BUFFER MEMORY AND LOCAL **PROCESSOR** MEMORY **COUPLED VIA** SEPARATE **BUSES** This ... known as SCSI-2. SUMMARY OF THE INVENTION The invented **controller** is the combination of: an intelli- gent interface to a SCSI **bus**. ...
Cited by 86 Related articles All 2 versions Cite

Method and apparatus for interfacing a device compliant to a **first bus** protocol to an external **bus** having a **second bus** protocol and for providing virtual functions ...
B Gillespie, M Goloschmidt, T Sych, B Young - US Patent 5,751,975, 1998 - Google Patents
... A PCI to PCI bridge provides an interface between the primary PCI and a secondary PCI **bus**. Another PCI com- pliant device (eg, a **second** SCSI **Controller** made by a **second** company, COMPANY2) is **coupled** to this secondary PCI **bus**. ...
Cited by 93 Related articles All 2 versions Cite

Method and apparatus for implementing multiple memory **buses** on a memory module
MW Leddige, BD Horine, R Bonella ... - US Patent ..., 2008 - Google Patents
... US 6,587; ,912 B2 3 the display device **controller** 122 and displays the informa- tion and data signals to the user of the computer system 100. A video camera 123 is **coupled** to the **first** I/O **bus** 120. A **second** I/O **bus** 130 may be a single **bus** or a combi- nation of multiple **buses**. ...
Cited by 226 Related articles All 4 versions Cite

Apparatus for connecting and disconnecting peripheral devices to a powered **bus**
AC Pemberton - US Patent 5,564,024, 1996 - Google Patents
... In a preferred embodiment of the present invention, the I/O **controller**, signal **bus**, and port 13 will be designed to accommodate the connection ... That is, peripheral device 14a is **coupled** directly to CPU 12 while peripheral device 14b is connected to peripheral device 14a. ...
Cited by 120 Related articles All 2 versions Cite

Multi-**processor**, multi-**bus** system with **bus** interface comprising FIFO register stocks for receiving and transmitting data and control information
RJ Temes, CA Huey, RW Bruner - US Patent 4,935,894, 1990 - Google Patents
... In the aforementioned IBM 3270 System, the IBM 3270 terminals are **coupled** to the IBM 3274 ... For example, at the present time the IBM 3274 **controller** does not support many types of ... pertains to a multi-**processor**, multi-**bus** system which utilizes a pair of **bus** interface circuits ...
Cited by 83 Related articles All 2 versions Cite

Method and apparatus for implementing a wireless universal serial **bus** host **controller** by interfacing a universal serial **bus** hub as a universal serial **bus** device
JI Garney, TD Dennis - US Patent 5,890,015, 1999 - Google Patents
... 5,890,015 bridge memory **controller** 211 is **coupled** to the CPU **bus** 210 and the memory 213. The bridge memory **controller** 211 directs data traffic between the **processor** 201, the memory 213, and other ... The **bus** 220 can be a single **bus** or a combination of multiple **buses**. ...
Cited by 94 Related articles All 2 versions Cite

Method and apparatus for configuring a **bus**-to-**bus** bridge
JW Blackledge, A Cohen, S Katz, CM Merkin - US Patent 5,568,619, 1996 - Google Patents
... storage space for configu- ration parameters to identify the I/O devices **coupled** to the ... Thus, in accordance with the invention, a bridge **controller** configuration and status space has ... The **bus** bridge 22 includes additional configuration and 4Q status space in accordance with the ...
Cited by 124 Related articles All 2 versions Cite

Method for implementing multiple memory **buses** on a memory module
MW Leddige, BD Horine, R Bonella ... - US Patent ..., 2008 - Google Patents
... The display device receives data signals from the **processor** 101 through 60 the display device **controller** 122 and displays the informa- tion and ... A video camera 123 is **coupled** to the **first** I/O **bus** 120. A **second** I/O **bus** 130 may be a single **bus** or a combi- nation of multiple **buses** ...
Cited by 201 Related articles All 2 versions Cite

Method for transferring data directly between the **first** and **second** data storage devices without transferring data to the memory array or over the input-output **bus**
JW Meyer - US Patent 5,838,331, 1998 - Google Patents
... The **processor** and I/O **buses** communicate with each other **via** a **bus** interface or **controller** **coupled** therebetween. The **processor bus** has a high bandwidth and thus is able 60 to rapidly transfer data between the **processor** and the memory array. ...
Cited by 31 Related articles All 2 versions Cite

Integrated **bus** bridge and memory **controller** that enables data streaming to a shared memory of a computer system using snoop ahead transactions
G Hayek, AS Oztaskin, B Langendorf ... - US Patent 5,630,094, 1997 - Google Patents
... 5,630,094 3 4 main memory 18, and a bridge and memory **controller** 16. **... processor** 12 is **coupled** for communication over a 40 controls prefetches into the peripheral read prefetch **processor bus** 24. The cache memory 14 is also **coupled** to 5 buffer 44 to ensure that a read to the **...**
Cited by 51 Related articles All 2 versions Cite

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bus controller coupled to processor via first bus and second bus

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Utility
Design
Plant
Defensive Publication
Additional Improvement
Statutory Invention Registration

Sorted by relevance
Filing date: latest
Filing date: oldest

Effective **bus** utilization using multiple **buses** and multiple **bus** ...



www.google.com/patents/US7058740
Grant - Filed Mar 8, 2001 - Issued Jun 6, 2006 - Hidekazu Watanabe - Sony Corporation, Sony Electronics Inc.
The **bus controller** includes a **bus** arbiter and a **first** multiplexer. The **bus** arbiter is **coupled** to the **first** and **second processors via first** and **second** master **buses**, ...
Overview - Abstract - Drawing - Description - Claims - Related

Method and system for embedded disk **controllers**



www.google.com/patents/US7080188
Grant - Filed Mar 10, 2003 - Issued Jul 18, 2006 - Larry L. Byers - Marvell International Ltd.
... performance **bus**; a **second processor** operationally **coupled** ...
Overview - Abstract - Drawing - Description - Claims - Related

Method and system for managing system **bus** communications in a data ...



www.google.com/patents/US5754804
Grant - Filed Jan 30, 1996 - Issued May 19, 1998 - Harry Cheselka - International Business Machines Corporation
A **second** system **processor** having a **second bus controller** is **coupled** to a **second** ... communications with the **first** system **processor via** the **first** system **bus**.
Overview - Abstract - Drawing - Description - Claims - Related

Method and system for using an external **bus controller** in embedded ...



www.google.com/patents/US7853747
Grant - Filed May 15, 2007 - Issued Dec 14, 2010 - Larry L. Byers - Marvell International Ltd.
An external **bus controller** ("EBC") is located on the embedded disk controller, ... **first processor** in communication with a **first bus** and a **second** ..... with buffer memory and local **processor** memory **coupled via** separate **buses** ...
Overview - Abstract - Drawing - Description - Claims - Related

Method and system for using an external **bus controller** in embedded ...



www.google.com/patents/US7219182
Grant - Filed Mar 10, 2003 - Issued May 15, 2007 - Larry L. Byers - Marvell International Ltd.
A **second processor** communicates with a **second bus** ... embedded disk **controller via** an external **bus** interface and **coupled** to the **first bus** ...
Overview - Abstract - Drawing - Description - Claims - Related

Integrated circuit having **processor coupled** by common **bus** to ...



www.google.com/patents/US5627989
Grant - Filed Sep 21, 1994 - Issued May 6, 1997 - Hideo Nakamura - Hitachi, Ltd.
Integrated circuit having **processor coupled** by common **bus** to programmable . ... (1) when the **first** mode **control** signal indicating external access, the **second** mode ... **through** the address **bus** and the data **bus** independently of the **CPU** block, ...
Overview - Abstract - Drawing - Description - Claims - Related

Multi-core data **processor**



www.google.com/patents/US7890685
Grant - Filed Feb 6, 2009 - Issued Feb 15, 2011 - Mamoru Sakugawa - Renesas Electronics Corporation
A multi-core LSI comprises a plurality of CPUs **coupled** to a **first** shared **bus**, one or ... a shared **bus controller coupled** between the **first** shared **bus** and the **second** ... shared **bus via** the shared **bus controller** to terminate the access by the **CPU** ...
Overview - Abstract - Drawing - Description - Claims - Related

Data **processor** having **bus controller** for controlling a plurality ...



www.google.com/patents/US5889966
Grant - Filed Jul 12, 1996 - Issued Mar 30, 1999 - Satoru Sonobe - NEC Corporation
... a function of fetching an instruction from an external memory 100 **via** an external **bus** 95, ... Data **processor** having **bus controller** for controlling a plurality of **buses** . ... circuit having **processor coupled** by common **bus** to programmable read only ... a central processing unit,: **first** and **second buses** provided independently of ...
Overview - Abstract - Drawing - Description - Claims - Related

Processor with coherent **bus controller** at perpendicularly ...



www.google.com/patents/US7865650
Grant - Filed Apr 1, 2008 - Issued Jan 4, 2011 - Charles Francis Marino - International Business Machines Corporation
The secondary interconnect trunk communicates information off-chip **via** a ... **Processor** with coherent **bus controller** at perpendicularly intersecting axial . ... a primary interconnect trunk, situated along a **first** axis of the substrate and **coupled** to the ... includes opposed **first** and **second** sides and opposed **third** and fourth sides.
Overview - Abstract - Drawing - Description - Claims - Related

System for simultaneously writing back cached data **via first bus** ...



www.google.com/patents/US5918068
Grant - Filed Feb 26, 1997 - Issued Jun 29, 1999 - Tsukasa Matoba - Kabushiki Kaisha Toshiba
A **bus** bridge mutually connects a **CPU bus** to which a **CPU** and a ... having a write-back scheme are **coupled**, an I/O **bus** to which a **bus** master is **coupled**, and a ... onto the I/O **bus** while the write-back **control** section performs writing back. ... is commonly accessed **through** said **first bus** or **second bus**; and: a **bus** bridge for ...
Overview - Abstract - Drawing - Description - Claims - Related

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PCMCIA card includes processor and bus controller

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Integrated primary bus and secondary bus controller with reduced ...



www.google.com/patents/EP0775347A2?cl=en

App - Filed May 23, 1996 - Published May 28, 1997 - Vincent William Miller - National Semiconductor Corporation

The pin count of an integrated ISA-type **bus controller** and **PCMCIA**-type bus ... and 16 data) to communicate with **CPU** 12, and another 48 address and data pins to ... controller 100 additionally **includes** a personal computer memory **card** ...

Overview - Related - Discuss

Integrated primary bus and secondary bus controller with reduced ...



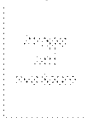
www.google.com/patents/EP0775347B1?cl=en

Grant - Filed May 23, 1996 - Issued Mar 6, 2002 - Vincent William Miller - National Semiconductor Corporation

The pin count of an integrated ISA-type **bus controller** and **PCMCIA**-type bus ... and 16 data) to communicate with **CPU** 12, and another 48 address and data pins to ... controller 100 additionally **includes** a personal computer memory **card** ...

Overview - Related - Discuss

Integrated primary bus and secondary bus controller with reduced ...



www.google.com/patents/EP0775347A3?cl=en

App. - Filed May 23, 1996 - Published Aug 13, 1997 - National Semiconductor Corporation

The pin count of an integrated ISA-type **bus controller** and **PCMCIA**-type **bus controller** ... 1, a **CPU** 12 utilizes a local address bus LABUS and a local data bus LDBUS to ... controller 100 additionally **includes** a personal computer memory **card** ...

Overview - Related - Discuss

Extended cardbus/PC card controller with split-bridge technology



www.google.com/patents/EP1601704A2?cl=en

App - Filed Apr 19, 2001 - Published Jun 27, 2007 - W. Frank Ahern - Tao Logic Systems LLC

Moreover, the **processing** power of computer systems has been resident within the ... The typical operation of a serial **bus includes** an extensive header of ...

Overview - Related - Discuss

CPU-bus controller



www.google.com/patents/EP0423638A2?cl=en

App - Filed Oct 11, 1990 - Published Apr 17, 1991 - Ronald J. Larson - AST RESEARCH, Inc.

The **bus controller includes** logic circuitry to determine the number of access ... See for example the well-known personal computer models known as the "**PC** XT " .... on add-in **cards** connected to the bus, to act as "master" **processors** on a par ...

Overview - Related - Discuss

Portable PCMCIA interface for a host computer



www.google.com/patents/EP0672987A2?cl=en

App. - Filed Mar 10, 1995 - Published Sep 20, 1995 - Michael S. Bender - Sun Microsystems, Inc.

a PCMCIA adapter coupled between said system bus and said **PC card** for ... **includes** a Card Services provider for **processing** said **PCMCIA card** service request ... a host **bus controller** 50, a standardized host system bus 55 and input/ output ...

Overview - Related - Discuss

Portable PCMCIA interface for a host computer



www.google.com/patents/EP0672987B1?cl=en

Grant - Filed Mar 10, 1995 - Issued Jun 7, 2006 - Michael S. Bender - Sun Microsystems, Inc.

a PCMCIA adapter coupled between a system bus and said **PC card** for converting ... The PCMCIA interface in claim 1 where said PCMCIA adapter

includes a ... (**CPU**) 20, a memory bus (M-bus) 35, a host memory 30, a host **bus controller** 50, ...

Overview - Related - Discuss

High-speed **cpu** interconnect **bus** architecture



www.google.com/patents/EP0706687A4?cl=en

App. - Filed Jul 1, 1994 - Published Jul 16, 1997 - Elonex Technologies, Inc.

In one aspect a **bus controller** (25) is programmable to select translation ... The price/performance ratio has become the most important factor in the **PC** market. .... VGA and Graphics **processor card** 17 **includes** high-speed video memory, and is ...

Overview - Related - Discuss

High-speed **cpu** interconnect **bus** architecture



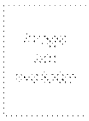
www.google.com/patents/EP0706687A1?cl=en

App. - Filed Jul 1, 1994 - Published Apr 17, 1996 - Pascal Dornier - Elonex Technologies, Inc.

In one aspect a **bus controller** (25) is programmable to select translation ... The price/performance ratio has become the most important factor in the **PC** market. .... VGA and Graphics **processor card** 17 **includes** high-speed video memory, and is ...

Overview - Related - Discuss

Operating system for a dynamically re-configurable PC



www.google.com/patents/EP1182545A2?cl=en

App. - Filed Jun 18, 2001 - Published Feb 27, 2002 - Hussein Sallam - Xybernaut Corporation

A modular computer operating system comprising a **CPU** component and at least one ... The system of any one of claims 1 to 5 wherein said serial **Bus controller** has a central ... The process of any one of claims 12 to 14 wherein said system **includes** ... Frequently conflicts arise, particularly when the devices are **card** based ...

Overview - Related - Discuss

RESPONSE UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP ART UNIT 2438

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: January 23, 2013 (Date) /Paul T. Seegers/ Paul T. Seegers, # 66,621

RESPONSE TO FINAL OFFICE ACTION MAILED NOVEMBER 23, 2012

This paper is submitted in response to a Final Office Action of November 23, 2012, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

Lenovo
Ex. 1004 - Page 427

IN THE CLAIMS:

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1-33. (Canceled)

34. (Currently Amended) An apparatus, comprising:

a processor configured to control one or more functions of a network device having a network interface, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator;

a first bus; and

a bus controller coupled to the processor via the first bus, wherein the bus controller is also coupled to a second bus of the network device that is distinct from the first bus, wherein the bus controller is configured to receive the encrypted form of the management requests from the second bus, and to convey the encrypted form of the management requests to the processor via the first bus;

wherein the processor is configured to decrypt the encrypted form of the management requests, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the apparatus is distinct from the processor included in the network device.

35. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device.

36. (Previously Presented) The apparatus of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

Lenovo
Ex. 1004 - Page 428

37. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the apparatus is configured to cycle the power received by the network device via the second power circuit.

38. (Previously Presented) The apparatus of claim 37, wherein the apparatus is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

39. (Previously Presented) The apparatus of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configure to receive the management requests via the first established connection.

40. (Previously Presented) The apparatus of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to implement a firewall that restricts traffic received from the second bus.

42-47. (Canceled)

48. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a component within the network device.

Lenovo
Ex. 1004 - Page 429

49. (Currently Amended) A method, comprising:

receiving, by a bus controller of a management device, an encrypted form of management requests via a first bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator;

conveying the encrypted form of management requests from the bus controller to a processor of management device via a second bus of the management device, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the management device is distinct from the processor included in the network device;

decrypting, by the processor, the encrypted form of the management requests; and

controlling, by the processor, one or more functions of the network device according to the management requests.

50. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a domain name service protocol.

51. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network time protocol.

52. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network management protocol.

53. (Previously Presented) The method of claim 49, further comprising:

establishing, by the management device, a virtual private network connection with an access control server configured to authenticate the remote administrator.

Lenovo
Ex. 1004 - Page 430

54. (Previously Presented) The method of claim 49, further comprising:

receiving, by the management device, additional management requests from the remote administrator via a network interface of the management device, and wherein the additional management requests are not received via the first bus of the network device.

55. (Previously Presented) The method of claim 54, wherein the network interface of the management device is a telephone-line interface.

56. (Previously Presented) The method of claim 49, further comprising:

receiving, by the management device, power via a first power circuit separate from a second power circuit of the network device; and

cycling, by the management device, power from the second power circuit to reset the network device.

57. (Previously Presented) The method of claim 49, wherein the management device is a card including the processor and the bus controller, wherein the card is configured to be inserted into the network device via a card interface.

58. (Previously Presented) The method of claim 49, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

59. (Canceled)

60. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a card configured to be inserted into the network device via a card interface.

61. (Previously Presented) The apparatus of claim 34, wherein the network device is a network router that includes plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

Lenovo
Ex. 1004 - Page 431

62. (Canceled)

Lenovo
Ex. 1004 - Page 432

REMARKS:

Claims 34-41 and 48-62 were pending in the application. Claims 34 and 49 have been amended. Claims 59 and 62 have been canceled. Therefore, claims 34-41, 48-58, 60, and 61 are now pending in this application.

Allowable Subject Matter

Claims 37, 38, 56, 59, and 62 are indicated as allowable if rewritten in independent form. Accordingly, Applicant has amended independent claim 34 to incorporate the features of claim 62 and amended independent claim 49 to incorporate the features of claim 59. Applicant therefore submits that the claims are believed to be in condition for allowance.

CONCLUSION:

Applicant respectfully submits the application is in condition for allowance, and an early notice to that effect is requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above-referenced application from becoming abandoned, Applicant hereby petitions for such extension.

The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Respectfully submitted,

Date: January 23, 2013

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

Lenovo
Ex. 1004 - Page 433

Electronic Acknowledgement Receipt

EFS ID:	14773642
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	23-JAN-2013
Filing Date:	29-NOV-2007
Time Stamp:	17:10:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response_to_Final_OA_11_23_12.pdf	75380 afc02f99f66d8b068264c84357c56804ea3780a8	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment After Final	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	7
Warnings:			
Information:			
	Total Files Size (in bytes):	75380	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

35690 7590 02/25/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER
TRUONG, THANHNGA B

ART UNIT	PAPER NUMBER
2438	

DATE MAILED: 02/25/2013

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

TITLE OF INVENTION: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1770	$300	$0	$2070	05/28/2013

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

35690 7590 02/25/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

TITLE OF INVENTION: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1770	$300	$0	$2070	05/28/2013

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRUONG, THANHNGA B	2438	726-017000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 02/25/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

DATE MAILED: 02/25/2013

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 491 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 491 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No.	Applicant(s)	
	11/946,976	CARLEY, JEFFREY ALAN	
	Examiner	Art Unit	
	THANHNGA B. TRUONG	2438	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *1/23/13*.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are *34-41,48-58,60 and 61*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438

DETAILED ACTION

1. Applicant's amendment filed on January 23, 2013 has been entered. Claims 1-62 are pending. Claims 1-33, 42-47, 59, and 62 have been cancelled by the applicant.

Response to Argument

2. Applicant's arguments filed January 23, 2013 have been fully considered and are persuasive.

Allowable Subject Matter

3. Claims 34-41, 48-58, 60-61 are allowed for the reasons argued by Applicants in page 7 in Remarks, filed January 23, 2013. None of the prior art of record, either taken by itself or in any combination, would have anticipated or made obvious the claimed invention of the present application at or before the date it was effectively filed. In addition, the prior arts do not disclose receiving, by a bus controller of a management device, an encrypted form of management requests via a first bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator; conveying the encrypted form of management requests from the bus controller to a processor of management device via a second bus of the management device, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the management device is distinct from the processor included in the network device; decrypting, by the processor, the encrypted form of the management requests; and controlling, by the processor, one or more functions of the network device according to the management requests, as set forth in claims 49, and similar to claim 34.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Taghi Arani can be reached on 571-272-3787. The central fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438
February 16, 2013

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two distinct processors

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Microprocessor with an architecture mode control capable of supporting extensions of **two distinct** instruction-set architectures
JW Goetz, SW Mahin, JJ Bergkvist - US Patent 5,854,913, 1998 - Google Patents
... 29, 1998 [54] MICROPROCESSOR WITH AN ARCHITECTURE MODE CONTROL CAPABLE OF SUPPORTING EXTENSIONS OF **TWO DISTINCT** INSTRUCTION-SET ARCHITECTURES [75] Inventors: John W. Goetz, Jericho; Stephen W. Mahin; John J. Bergkvist, both of ...
Cited by 145 Related articles All 2 versions Cite

A polynomial algorithm to optimally schedule tasks on a virtual distributed system under tree-like precedence constraints
P Chrétienne - European Journal of Operational Research, 1989 - Elsevier
... roots are the tasks of Pred(r). We shall prove that there exists a schedule at least as good as (~r, t) and satisfies requirements (a) and (b). Let x and y be **two distinct** tasks of Pred(r) (ie, x is the root of A,, and y the root of A~) assigned by ~r to the same **processor** k. We consider ...
Cited by 86 Related articles All 7 versions Cite

Access and alignment of data in an array **processor**
DH Lawrie - Computers, IEEE Transactions on, 1975 - ieeexplore.ieee.org
... 1146 Page 3. LAWRIE: DATA IN AN ARRAY **PROCESSOR** ... are all odd and therefore are prime to M which is a power of **two**. ... Theorem 1: The elements of a N!"2 X N"12 square block lie in **distinct** memory modules when stored (N"1/2 + 1,2) skewed in 2N memories. ...
Cited by 1275 Related articles All 5 versions Cite

[PDF] Reaching agreement in the presence of faults — uminho.pt [PDF]
M Pease, R Shostak, L Lamport - Journal of the ACM, 1980 - gsd.di.uminho.pt
... Definition For each p ∈ P, let Fp be a mapping that takes a p-scenario σp and a **processor** q as arguments and returns a value in V. ... n ≤ 3m, P can be particioned into three nonempty sets A, B and C, where |A| ≤ m ∧ |B| ≤ m ∧ |C| ≤ m. Let v and v be **two distinct** values in V ...
Cited by 1468 Related articles All 8 versions Cite More

Regular iterative algorithms and their implementation on **processor** arrays
SK Rao, T Kailath - Proceedings of the IEEE, 1988 - ieeexplore.ieee.org
... Onesimpleand brute- force method for achieving this objective is to use a **distinct processor** for executing the ... but also assign a time at which it is to be executed by the **processor**. ... the dependence graph of the algorithm and must also be such that no **two** computations assigned to ...
Cited by 426 Related articles All 9 versions Cite More

Source detection and DOA estimation from **two** observations of a finite line aperture — mcgill.ca [PDF]
B Champagne - ... Speech, and Signal Processing, 1993. ICASSP ..., 1993 - ieeexplore.ieee.org
... where u(x) = ri(x) + r2(x - A), 0 e x < L +A, (20) with ri(x)=O for x e 0 and x > L. Hence, the optimum pro- cessor (9)-(11) can be decomposed into a cascade of **two** func- tionally **distinct** sub-**processors**. The first sub-**processor**, which performs the operation in (20). ...
Cited by 107 Related articles BL Direct All 6 versions Cite

C. mmp, a multi-mini-**processor** — microsoft.com [PDF]
WA Wulf, CG Bell - Proceedings of the December 5-7, 1972, fall joint ..., 1972 - dl.acm.org
... This might appear in several forms in software: —Critical computations might be performed by **two distinct** methods within a single **processor** and their results compared ---The same code for a critical computation might be performed by **two distinct processors** and their results ...
Cited by 413 Related articles All 10 versions Cite

Some complexity questions related to distributive computing (Preliminary Report)
ACC Yao - Proceedings of the eleventh annual ACM symposium ..., 1979 - dl.acm.org
... To detennine f(i, j), **processor** t't sends stochastically a string to P2, based on which 1:~ stochastically decides the value of f(i, j) With chance of error '< e. There are several different ways to define ... Now we assert that no **two distinct** f and f in %,,,k may have the same representative ...
Cited by 907 Related articles All 4 versions Cite

Authenticated algorithms for Byzantine agreement — huji.ac.il [PDF]
D Dolev, HR Strong - SIAM Journal on Computing, 1983 - SIAM
... we relax (I) slightly as in crusaderagreement (Da), then we can obtain agreement within **two** phases ... t-faulty (with respect to a correctness rule) if at most of its **processors** are incorrect ... A correctness rule isactually a union ofpossibly **distinct** correctness rules, one for each **processor** ...
Cited by 330 Related articles All 17 versions Cite More

UET scheduling with unit interprocessor communication delays
VJ Rayward-Smith - Discrete Applied Mathematics, 1987 - Elsevier

... an in- 0166-218X/87/$3.50 1987, Elsevier Science Publishers BV (North-Holland)
56 VJ Rayward-Smith terprocessor communication time delay. We assume a
communication delay of unit time between any **two distinct processors**. ...
Cited by 179 Related articles All 5 versions Cite More

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Configurable tool to protect processors against SEE by software-based detection techniques

Chielle, Eduardo; Barth, Raul Sergio; Lapolli, Angelo Cardoso; Kastensmidt, Fernanda Lima
Test Workshop (LATW), 2012 13th Latin American
Topic(s): Communication, Networking & Broadcasting ; Components, Circuits, Devices & Systems ; Computing & Processing (Hardware/Software) ; Signal Processing & Analysis
Digital Object Identifier: 10.1109/LATW.2012.6261259
Publication Year: 2012 , Page(s): 1 - 6
IEEE CONFERENCE PUBLICATIONS

A distinct software implementation in a vehicle controller

Greve, W.E.; Schroder, R.J.
Vehicular Technology Conference, 1983. 33rd IEEE
Volume: 33
Topic(s): Transportation
Digital Object Identifier: 10.1109/VTC.1983.1623127
Publication Year: 1983 , Page(s): 148 - 152
IEEE CONFERENCE PUBLICATIONS

All-optical label processing techniques for pure DPSK optical packets

Calabretta, N.; Contestabile, G.; D'Errico, A.; Ciaramella, E.
Selected Topics in Quantum Electronics, IEEE Journal of
Volume: 12 , Issue: 4
Topic(s): Engineered Materials, Dielectrics & Plasmas , Photonics & Electro-Optics
Digital Object Identifier: 10.1109/JSTQE.2006.876205
Publication Year: 2006 , Page(s): 686 - 696
Cited by 10
IEEE JOURNALS & MAGAZINES

Parallel algorithms for the longest common subsequence problem

Mi Lu; Hua Lin
Parallel and Distributed Systems, IEEE Transactions on
Volume: 5 , Issue: 8
Topic(s): Aerospace ; Bioengineering ; Communication, Networking & Broadcasting ; Components, Circuits, Devices & Systems ; Computing & Processing (Hardware/Software) ; Engineered Materials, Dielectrics & Plasmas ; Engineering Profession ; Fields, Waves & Electromagnetics ; General Topics for Engineers (Math, Science & Engineering) ; Geoscience ; Nuclear Engineering ; Photonics & Electro-Optics ; Power, Energy, & Industry Applications ; Signal Processing & Analysis , Transportation
Digital Object Identifier: 10.1109/71.298210
Publication Year: 1994 , Page(s): 835 - 848
Cited by 14
IEEE JOURNALS & MAGAZINES

RESPONSE UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
GROUP ART UNIT 2438

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: January 23, 2013 /Paul T. Seegers/
Date Paul T. Seegers, # 66,621

RESPONSE TO FINAL OFFICE ACTION MAILED NOVEMBER 23, 2012

This paper is submitted in response to a Final Office Action of November 23, 2012, to further highlight why the application is in condition for allowance.

Please amend the case as listed below.

OK TO ENTER: /TBT/

Lenovo
Ex. 1004 - Page 446

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012	08/06/2012	10/29/2012	02/16/2013		
	1	✓	✓	÷	-	-	-	-		
	2	✓	✓	÷	-	-	-	-		
	3	✓	✓	÷	-	-	-	-		
	4	✓	✓	÷	-	-	-	-		
	5	✓	✓	÷	-	-	-	-		
	6	✓	✓	-	-	-	-	-		
	7	✓	✓	-	-	-	-	-		
	8	✓	✓	-	-	-	-	-		
	9	✓	✓	-	-	-	-	-		
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	20	✓	✓	-	-	-	-	-		
	21	✓	✓	-	-	-	-	-		
	22	✓	=	-	-	-	-	-		
	23	✓	=	-	-	-	-	-		
	24			÷	-	-	-	-		
	25			÷	-	-	-	-		
	26			÷	-	-	-	-		
	27			÷	-	-	-	-		
	28			÷	-	-	-	-		
	29			÷	-	-	-	-		
	30			÷	-	-	-	-		
	31			÷	-	-	-	-		
	32			÷	-	-	-	-		
	33			÷	-	-	-	-		
1	34			÷	✓	✓	✓	=		
2	35			÷	✓	✓	✓	=		
3	36			÷	✓	✓	✓	=		

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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CLAIM		DATE								
Final	Original	09/21/2010	06/03/2011	11/25/2011	03/02/2012	08/06/2012	10/29/2012	02/16/2013		
4	37			÷	O	O	O	=		
5	38			÷	O	O	O	=		
6	39			÷	✓	✓	✓	=		
7	40			÷	✓	✓	✓	=		
8	41			÷	✓	✓	✓	=		
	42			÷	-	-	-	-		
	43			÷	-	-	-	-		
	44			÷	-	-	-	-		
	45			÷	-	-	-	-		
	46			÷	-	-	-	-		
	47			÷	-	-	-	-		
9	48				✓	✓	✓	=		
12	49				✓	✓	✓	=		
13	50				✓	✓	✓	=		
14	51				✓	✓	✓	=		
15	52				✓	✓	✓	=		
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17	54				✓	✓	✓	=		
18	55				✓	✓	✓	=		
19	56				O	O	O	=		
20	57					✓	✓	=		
21	58					✓	✓	=		
	59					✓	O	-		
10	60					✓	✓	=		
11	61					✓	✓	=		
	62					✓	O	-		

Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
11946976	CARLEY, JEFFREY ALAN
Examiner	**Art Unit**
THANHNGA B TRUONG	2438

CPC

Symbol				Type	Version
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CPC Combination Sets

Symbol				Type	Set	Ranking	Version
			/				
			/				

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
726	3

CROSS REFERENCE(S)

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
726	2				
713	300	310	320	330	340

INTERNATIONAL CLASSIFICATION

CLAIMED					NON-CLAIMED				
G	0	6	F	15 / 16 (2006.01.01)					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 21	
/THANHNGA B TRUONG/ Primary Examiner.Art Unit 2438 (Primary Examiner)	2/16/13 (Date)	O.G. Print Claim(s) 34	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No. 20130216

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

710	119	305														
709	203	208	225	226	229											

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THANHNGA B TRUONG/ Primary Examiner.Art Unit 2438	2/16/13	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	34	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	**Art Unit**
	THANHNGA B TRUONG	2438

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17		33	12	49								
	2		18	1	34	13	50								
	3		19	2	35	14	51								
	4		20	3	36	15	52								
	5		21	4	37	16	53								
	6		22	5	38	17	54								
	7		23	6	39	18	55								
	8		24	7	40	19	56								
	9		25	8	41	20	57								
	10		26		42	21	58								
	11		27		43		59								
	12		28		44	10	60								
	13		29		45	11	61								
	14		30		46		62								
	15		31		47										
	16		32	9	48										

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 21	
/THANHNGA B TRUONG/ Primary Examiner.Art Unit 2438 (Primary Examiner)	2/16/13 (Date)	O.G. Print Claim(s) 34	O.G. Print Figure 1

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11946976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B TRUONG	2438

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
726	3, 6, 18	9/21/10	TBT
709	236	9/21/10	TBT
710	17, 107, 108	6/3/11	TBT
709	203,208,225-226,229	3/2/12; 8/7/12; 10/29/12; 2/16/13	TBT
726	2-3	3/2/12; 8/7/12; 10/29/12; 2/16/13	TBT
713	300,310,320,330,340	3/2/12; 8/7/12; 10/29/12; 2/16/13	TBT
710	119, 305	8/7/12; 10/29/12; 2/16/13	TBT

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Name Searched; Assignee Searched	9/21/10; 6/3/11	TBT
TEXT Searched; EAST Searched; NPL Searched - Google	9/21/10; 6/3/11	TBT
Consulted with PE Angel Castro and PE Ponnereay Pich for restriction by original presentation	11/22/11	TBT
Inventor Name Searched; Assignee Searched	3/2/12; 3/6/12; 8/7/12; 10/29/12	TBT

Lenovo
Ex. 1004 - Page 452

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
TEXT Searched; EAST Searched; NPL Searched - Google/Patents and Scholar	3/2/12; 8/7/12; 10/29/12; 2/16/13	TBT
TEXT Searched; EAST Searched; NPL Searched - Google/Patents and Scholar, IEEE	2/16/13	

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
709	203,208,225-226,229	2/16/13	TBT
726	2-3	2/16/13	TBT
713	300,310,320,330,340	2/16/13	TBT
710	119, 305	2/16/13	TBT

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two distinct processors

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Processor capable of supporting two distinct instruction set ...
www.google.com/patents/EP0747808A3?cl=en
App. - Filed May 31, 1996 - Published Jan 15, 1997 - John J. Bergkvist - International Business Machines Corporation
A microprocessor which supports **two distinct** instruction-set architectures. The microprocessor includes a mode control unit which enables extensions and/or **...**
Overview - Related - Discuss

Fault tolerant data processing system initialisation
www.google.com/patents/EP0405736A2?cl=en
App. - Filed May 16, 1990 - Published Jan 2, 1991 - Jr. John Monroe Dinwiddie - International Business Machines Corporation
The improved "uncoupling" feature allows **two distinct processors** to communicate with each other without attaching one of the processors to a bus or channel **...**
Overview - Related - Discuss

Apparatus and method for coupling a data processor to alien ...
www.google.com/patents/EP0400341B1?cl=en
Grant - Filed May 16, 1990 - Issued Sep 2, 1998 - Ernest Dysart Baker - International Business Machines Corporation
The improved "uncoupling" feature allows **two distinct processors** to communicate with each other without attaching one of the processors to a bus or channel **...**
Overview - Related - Discuss

Digital signal processing system and method for generating musical ...
www.google.com/patents/EP0774106A4?cl=en
App. - Filed Sep 2, 1997 - Published Jan 28, 2000 - A. David Jaffe - The Board Of Trustees Of
... between the **two distinct** musical note signals in accordance with a non-linear " s-shaped" ramp function. 18. The signal **processing** system of claim 12, wherein **...**
Overview - Related - Discuss

Interprocessor communication
www.google.com/patents/EP0398697A2?cl=en
App. - Filed May 16, 1990 - Published Nov 22, 1990 - Ernest Dysart Baker - International Business Machines Corporation
The improved "uncoupling" feature allows **two distinct processors** to communicate with each other without attaching one of the processors to a bus or channel **...**
Overview - Related - Discuss

Advanced parallel array processor (APAP)
www.google.com/patents/EP0570850A2?cl=en
App. - Filed May 19, 1993 - Published Nov 24, 1993 - Thomas Norman Barker - International Business Machines Corporation
Architectural Issues: [0015] Processes which are suitable for fine-grained parallel **processors** fall into **two distinct** types. Processes which are functionally **...**
Overview - Related - Discuss

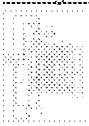
Halftone Printing Screens
www.google.com/patents/EP0527655B1?cl=en
Grant - Filed Aug 13, 1992 - Issued Nov 2, 2000 - William Frederick Ashworth - Megadot Systems Limited
Preferably, the means for **processing** includes means for joining the printing areas in **two distinct** stages as tone darkens or lightens respectively.
Overview - Related - Discuss

Method and apparatus for minimizing differential power attacks on ...



www.google.com/patents/EP1161726B1?cl=en
Grant - Filed Jan 11, 2000 - Issued Sep 17, 2003 - J. Robert Lambert - Certicom Corp.
... in a cryptographic **processor**, wherein programm execution jumps to one of **two** ... **two distinct** values (Vmax, Vmin), the method further comprising the steps of: ...
Overview - Related - Discuss

Configurable parallel pipeline image **processing** system



www.google.com/patents/EP0210434B1?cl=en
Grant - Filed Jun 24, 1986 - Issued Sep 29, 1993 - Milton J. Kimmel - International Business Machines Corporation
There are **two distinct** types of image **processing** operations which are most easily done in the PEs. They are image transformation and image translation.
Overview - Related - Discuss

Apap I/O programmable router



www.google.com/patents/EP0570729A2?cl=en
App - Filed Apr 27, 1993 - Published Nov 24, 1993 - Clive Allan Collins - International Business Machines Corporation
Architectural Issues: [0018] Processes which are suitable for fine-grained parallel **processors** fall into **two distinct** types. Processes which are functionally ...
Overview - Related - Discuss

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BIB DATA SHEET

CONFIRMATION NO. 1104

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/946,976	11/29/2007	726	2438	6257-62712
	RULE			

APPLICANTS

Jeffrey Alan Carley, Colorado Springs, CO;

**** CONTINUING DATA ****************************

This application is a CON of 10/969,561 10/20/2004 PAT 7,325,140
which is a CIP of 10/461,827 06/13/2003 PAT 7,496,950
which claims benefit of 60/388,287 06/13/2002
and claims benefit of 60/438,282 01/06/2003

**** FOREIGN APPLICATIONS ****************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

12/12/2007

Foreign Priority claimed	☐ Yes ☑ No		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☑ No	☐ Met after Allowance				
Verified and Acknowledged	/THANHNGA B TRUONG/ Examiner's Signature	TBT Initials	CO	32	23	3

ADDRESS

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P.O. BOX 398
AUSTIN, TX 78767-0398
UNITED STATES

TITLE

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"6954864".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/11/18 16:20
S2	2	"7120692".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/11/18 16:20
S3	2	"7058740".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/11/18 16:22
S4	2	"20080072291".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2012/11/18 17:21
S5	20	"CARLEY, JEFFREY ALAN"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:06
S6	17	("ENGEDI TECHNOLOGIES, INC" or "INFINITE BAY TELECOM LIMITED LIABILITY COMPANY")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:25
S7	0	S5 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:26
S8	0	S6 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:27
S9	30573	((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR;	WITH	ON	2013/02/16 19:27

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S10	37	S9 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:28
S11	14	S10 and ((bus with controll$3) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:29
S12	0	S11 and (two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:30
S13	1533	(two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:30
S14	81	S13 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:30
S15	0	S14 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:30
S16	0	S14 and ((bus with controll$3) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:31
S17	6525	(726/2-3).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:32
S18	34	S17 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:32
S19	0	S18 and ((network with device) with ((network with interface) with	US-PGPUB; USPAT; USOCR;	WITH	ON	2013/02/16 19:32

		(receiv$3 with ((data or management) with request))))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S20	1	S18 and ((bus with controll$3) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:33
S21	0	S18 and (two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:33
S22	12499	(713/300,310,320,330,340).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:34
S23	648	S22 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:34
S24	1	S23 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:34
S25	10	S23 and ((bus with controll$3) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:34
S26	0	S25 and (two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:35
S27	3580	(710/119,305).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:35
S28	758	S27 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:35
S29	3	S28 and ((network with device) with ((network with interface) with	US-PGPUB; USPAT; USOCR;	WITH	ON	2013/02/16 19:36

		(receiv$3 with ((data or management) with request))))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S30	1	S29 and ((bus with controll$3) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:36
S31	0	S30 and (two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:36
S32	0	S29 and (two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:36
S33	37354	(709/203,208,225-226,229).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:37
S34	264	S33 and ((bus with controll$3) with ((first or second) with bus$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:37
S35	0	S34 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:37
S36	20	S34 and ((bus with controll$3) with ((system with bus) with (network with device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:38
S37	0	S36 and (two with distinct with processors)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/02/16 19:38

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6594	(726/2-3).ccls.	US-PGPUB; USPAT;	WITH	ON	2013/02/16 22:50

			UPAD			
L4	11	l1 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:52
L5	0	l4 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request)))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:52
L6	0	l4 and ((bus with controll$3) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:53
L7	0	l4 and (two with distinct with processors).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:53
L8	12538	(713/300,310,320,330,340).ccls.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:53
L9	254	l8 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:54
L10	0	l9 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request)))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:54
L11	2	l9 and ((bus with controll$3) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:54
L12	2	l9 and (two with distinct with processors).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:55
L13	3573	(710/119,305).ccls.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:55
L14	488	l13 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:55
L15	1	l14 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request)))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:55
L16	0	l14 and (two with distinct with processors).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:56
L17	10	l14 and ((bus with controll$3) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:56
L18	37562	(709/203,208,225-226,229).ccls.	US-	WITH	ON	2013/02/16

			PGPUB; USPAT; UPAD			22:57
L19	87	l18 and ((bus with controll$3) with ((first or second) with bus$2)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:57
L20	0	l19 and ((network with device) with ((network with interface) with (receiv$3 with ((data or management) with request)))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:57
L21	1	l19 and ((bus with controll$3) with ((system with bus) with (network with device))).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:58
L22	0	l19 and (two with distinct with processors).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2013/02/16 22:58

2/16/2013 10:58:51 PM
C:\Users\ttruong4\Documents\EAST\Workspaces\Case-11946976-112907.wsp

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2131
Examiner Name	n/a
Attorney Docket Number	ENGEDI 7

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5764886		1998-06-09	Danielson et al.	
	2	6894999		2005-05-17	Acharya, Yatin	
	3	6424647		2002-07-23	Ng et al.	
	4	7441043		2008-10-21	Henry et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11946976
	Filing Date	2007-11-29
	First Named Inventor	Jeffrey A. Carley
	Art Unit	2131
	Examiner Name	n/a
	Attorney Docket Number	ENGEDI 7

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	1	USPTO Office Action ; Serial No. 12/352,161 date mailed 7/23/2010.	☐

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Examiner Signature	/Thanhnga Truong/	Date Considered	02/16/2013

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 03/14/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	
ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
03/14/2013	ELECTRONIC

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
11/946,976	29 November, 2007	CARLEY, JEFFREY ALAN	6257-62712

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
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EXAMINER	
THANHNGA B. TRUONG	
ART UNIT	PAPER
2438	20130309

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Commissioner for Patents

This communication letter is to informed applicant the IDS filed 8/2/2010 has been considered and attached herein.

Information Disclosure Statement
The information disclosure statement (IDS) filed on August 2, 2010 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438

PTO-90C (Rev.04-03)

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Sheet 1 of 1

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2432
Examiner Name	Gilberto Barron Jr.
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		USPTO Office Action; Serial No. 10/461,820; date mailed 7/5/2005.	
		USPTO Office Action; Serial No. 10/461,820; date mailed 2/24/2006.	
		USPTO Office Action; Serial No. 10/461,820 date mailed 6/9/2004.	
		USPTO Office Action; Serial No. 10/969,561; date mailed 11/2/2006.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 3/26/2008.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 10/3/2007.	
		USPTO Office Action; Serial No.10/461,827; date mailed 11/28/2006.	
		USPTO Office Action; Serial No. 10/461,827; date mailed 5/8/2006.	
		USPTO Office Action Serial No. 10/461,827; date mailed 10/5/2008.	

Examiner Signature	/Thanhnga Truong/	Date Considered	03/28/2013

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Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5684957		Kondo et al.	11/4/1997	
		5689566		Nguyen	11/18/1997	
		5761428		Sidey	6/2/1998	
		5848161		Luneau et al.	12/8/1998	
		5968176		Nessett et al.	10/19/1999	
		6055575		Paulsen et al.	4/25/2000	
		6079020		Liu	6/20/2000	
		6085243		Fletcher et al.	7/4/2000	
		6108782		Fletcher et al.	8/22/2000	
		6148337		Estberg et al.	11/14/2000	
		6189102		Beser	2/13/2001	
		6243815		Antur et al.	6/5/2001	
		6335927		Elliott et al.	1/1/2002	
		6366585		Dapper et al.	4/2/2002	
		6408392		White	6/18/2002	
		6446200		Ball et al.	9/3/2002	
		6456306		Chin et al.	9/24/2002	

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Sheet 2 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6473863		Genty et al.	10/29/2002	
		6480955		Dekoning et al.	11/12/2002	
		6484261		Wiegel	11/19/2002	
		6496858		Frailong et al.	12/17/2002	
		6553416		Chari et al.	4/22/2003	
		6560222		Pounds et al.	5/6/2003	
		6578042		Arrouye et al.	6/10/2003	
		6601084		Bhaskaran et al.	7/29/2003	
		6651190		Worley et al.	11/18/2003	
		6654796		Slater et al.	11/25/2003	
		6654891		Borsato et al.	11/25/2003	
		6662221		Gonda et al.	12/9/2003	
		6678826		Kelly et al.	1/13/2004	
		6684241		Sandick et al.	1/27/2004	
		6697947		Matyas, Jr. et al.	2/24/2004	
		6700890		Langley et al.	3/2/2004	
		6711613		Ewing et al.	3/23/2004	
		6751677		Ilnicki et al.	6/15/2004	
		6754831		Brownell	6/22/2004	

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Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

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Sheet 3 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6757297		Chin	6/29/2004	
		6894994		Grob et al.	5/17/2005	
		6970924		Chu et al.	11/29/2005	
		6973491		Staveley et al.	12/6/2005	
		6982953		Swales	1/3/2006	
		7024695		Kumar et al.	4/4/2006	
		7028228		Lovy et al.	4/11/2006	
		2001/0056548		Blumberg	12/27/2001	
		2002/0001302		Pickett	1/3/2002	
		2002/0052950		Pillai et al.	5/2/2002	
		2002/0057018		Branscomb et al.	5/16/2002	
		2002/0064149		Elliott et al.	5/30/2002	
		2002/0116485		Black et al.	8/22/2002	
		2002/0162005		Ueda et al.	10/31/2002	
		2002/0165961		Everdell et al.	11/7/2002	
		2002/0029337		Sudia et al.	03/07/2002	
		2003/0023854		Novak et al.	1/30/2003	
		2003/0041136		Cheline et al.	2/27/2003	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark hee if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

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PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	N/A
Attorney Docket Number	ENGEDI 7

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		2003/0088513		Gritzmacher et al.	5/8/2003	
		2003/0093244		Corlett et al.	5/15/2003	
		2003/0093563		Young et al.	5/15/2003	
		2003/0097444		Dutta et al.	5/22/2003	
		2003/0156740		Siegel et al.	8/21/2003	
		2003/0221011		Shitano	11/27/2003	
		2004/0003071		Mathew et al.	1/1/2004	
		2004/0104266		Bolle et al.	6/3/2004	
		2004/0153552		Trossen et al.	8/5/2004	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark hee if English language Translation is attached.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

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Ex. 1004 - Page 471

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PTO/SB/08A (08-00)
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 5

Complete if Known	
Application Number	11/946,976
Filing Date	11/29/2007
First Named Inventor	Jeffrey Alan Carley
Group Art Unit	2131
Examiner Name	Unassigned
Attorney Docket Number	ENGEDI 7

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Jaehong Park et al.; Towards Usage Control Models: Beyond Traditional Access Control	
		Ravi Sandhu et al.; Usage Control: A Vision for Next Generation Access Control	
		Gail-Joon Ahn et al.; Role-based Authorization Constraints Specification; ACM Transactions on Information and System Security, Vol. 3, No. 4, November 2000, Pages 207-226.	
		Hardware you need FAST; Symbiat (online); Copyright 2002; pages 1-2 specifically page 1.	
		Hari Harikrishnan: Advanced security for data, voice and video access ideal for small offices and teleworkers; introducing Cisco 836 and SOHO 96 Secure Broadband Routers, Cisco.com: March 2003; pages 1-14, specifically pages 4, 6 & 10.	

Examiner Signature	/Thanhnga Truong/	Date Considered	09/29/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

UNITED STATES PATENT AND TRADEMARK OFFICE

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Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 04/04/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
04/04/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address : COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
11/946,976	29 November, 2007	CARLEY, JEFFREY ALAN	6257-62712

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
THANHNGA B. TRUONG	
ART UNIT	PAPER
2438	20130328

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This communication letter is to inform applicant the IDS filed 12/17/2008 and 10/01/2010 have been considered and attached herein.

Information Disclosure Statement
The information disclosure statement (IDS) filed on December 17, 2008 and October 01, 2010 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438

PTO-90C (Rev.04-03)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

§

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: April 25, 2013 /Paul T. Seegers/
Date Paul T. Seegers, # 66,621

PETITION UNDER 37 CFR § 1.78(a)(3)

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

This paper addresses the need to correct an unintentionally delayed domestic priority claim under 37 C.F.R. § 1.78(a)(3).

1. The above-captioned application was filed on November 29, 2007.

2. The originally filed specification included a priority claim to U.S. Provisional Appl. No. 60/512,777. The specification, however, purported to directly claim priority to the '777 application (rather than properly claiming priority through the parent U.S. Appl. No. 10/969,561). As a result, the patent office did not acknowledge the priority to the '777 application in the filing receipt.

3. A subsequent ADS identifying the correct priority claim and a specification amendment were filed on 10/17/2011, but a petition to correct the priority claim was

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Ex. 1004 - Page 475

inadvertently omitted. The specification amendment, although not governing in this instance, also incorrectly referred to the '777 application as U.S. Provisional Appl. No. 60/572,777.

4. Accordingly, Applicant respectfully requests that the domestic priority claim to U.S. Provisional Appl. No. 60/512,777 be corrected in accordance with the application data sheet filed on 10/17/2011. Applicant is also submitting herewith a specification amendment to correctly reference the '777 application.

5. Applicant asserts that the entire delay between the date the priority claim was due and the filing of this petition was unintentional. As such, under 37 CFR § 1.78, Applicant respectfully requests that this petition to correct an unintentionally delayed domestic priority claim be granted.

Please do not hesitate to contact me at (512) 853-8878 with any questions.

This petition is accompanied by the surcharge set forth in § 1.17(t). The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Respectfully submitted,

Date: April 25, 2013

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621
Agent for Applicant

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

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Ex. 1004 - Page 476

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	Atty.Dkt.No.:	6257-62712
Serial Number:	11/946,976	Examiner:	Truong, Thanhnga B.
Filing Date:	November 29, 2007	Group/Art Unit:	2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	Conf. No.	1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: April 25, 2013 (Date) /Paul T. Seegers/ Paul T. Seegers, # 66,621

PETITION UNDER 37 CFR § 1.182
TO EXPEDITE REVIEW OF PETITION

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

To Whom It May Concern:

This paper addresses the need to **expedite** the review of a petition pursuant to 37 C.F.R. § 1.78(a)(3) that is being filed herewith in this captioned application.

1. On February 25, 2013, a Notice of Allowance was mailed in this captioned application. The Issue Fee is thus due as of the non-extendable deadline of May 28, 2013.

2. It has come to Applicant's attention that an error exists in the priority claim. An amendment pursuant to 37 C.F.R. § 1.312 and a petition pursuant to 37 C.F.R. § 1.78(a)(3) are being filed herewith.

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Ex. 1004 - Page 477

3. Petitioner therefore **requests expedited review** of the petition pursuant to 37 C.F.R. § 1.78(a)(3) filed herewith so that it may be decided in advance of the Issue Fee due date of May 28, 2012.

This petition is accompanied by the petition fee set forth in § 1.17(f). The Commissioner is authorized to charge any fees that may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Please do not hesitate to contact me at (512) 853-8878 with any questions.

Also filed herewith:

☒ Petition Pursuant to 37 C.F.R. § 1.78(a)(3)

Respectfully submitted,

Date: April 25, 2013

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P.O. Box 398
Austin, TX 78767-0398
(512) 853-8878

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Ex. 1004 - Page 478

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number:	11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date:	November 29, 2007	§	Group/Art Unit: 2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No. 1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: April 25, 2013 (Date) /Paul T. Seegers/ Paul T. Seegers, # 66,621

RULE 312 AMENDMENT

Please amend the above-referenced application as follows:

IN THE SPECIFICATION:

Please amend the specification by replacing the first paragraph after the title, below the heading "CROSS-REFERENCE TO RELATED APPLICATIONS" with the following amended paragraph:

This application is a continuation of U.S. Patent Application No. 10/969,561, filed October 20, 2004, which in turn is a continuation-in-part of U.S. Patent Application No. 10/461,827, filed Jun. 13, 2003. U.S. Patent Application No. 10/969,561 also claims the benefit of U.S. Provisional Application No. 60/512,777 ~~60/572,777~~, filed October 21, 2003. U.S. Patent Application No. 10/461,827 in turn claims the benefit of U.S. Provisional Application No. 60/388,287, filed June 13, 2002, and U.S. Provisional Application No. 60/438,282, filed January 6, 2003. The present invention is related to the invention described in co-owned U.S. Patent No. 7,171,467, filed on Jun. 13,2003 and issued on January 30, 2007, which is incorporated herein by reference. The present invention is also related to the invention described in co-owned and co-pending U.S. Patent Application No. 11/611,210, filed on December 15, 2006, which is incorporated herein by reference.

Lenovo
Ex. 1004 - Page 480

IN THE CLAIMS

The following is a current listing of claims and will replace all prior versions and listings of claims in the application. Please amend the claims as follows.

1-33. (Canceled)

34. (Previously Presented) An apparatus, comprising:

a processor configured to control one or more functions of a network device having a network interface, wherein the network device is configured to receive data requests and an encrypted form of management requests via the network interface, wherein the management requests are from a remote administrator;

a first bus; and

a bus controller coupled to the processor via the first bus, wherein the bus controller is also coupled to a second bus of the network device that is distinct from the first bus, wherein the bus controller is configured to receive the encrypted form of the management requests from the second bus, and to convey the encrypted form of the management requests to the processor via the first bus;

wherein the processor is configured to decrypt the encrypted form of the management requests, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the apparatus is distinct from the processor included in the network device.

35. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to provide a command line interface to the remote administrator, and wherein the apparatus is configured to receive one or more commands to control the one or more functions of the network device.

36. (Previously Presented) The apparatus of claim 34, wherein the bus controller is a peripheral component interconnect (PCI) controller.

Lenovo
Ex. 1004 - Page 481

37. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to receive power via a first power circuit, wherein the network device is configured to receive power via a second power circuit, and wherein the apparatus is configured to cycle the power received by the network device via the second power circuit.

38. (Previously Presented) The apparatus of claim 37, wherein the apparatus is configured to:

determine whether the network device is receiving power via the second power circuit; and

provide an indication, to the remote administrator, when the network device is not receiving power via the second power circuit.

39. (Currently Amended) The apparatus of claim 34, wherein the processor is configured to establish a first virtual private network connection with the remote administrator, and wherein the processor is configured to receive the management requests via the first established connection.

40. (Previously Presented) The apparatus of claim 39, wherein the processor is configured to establish a second virtual private network connection with an access control server configured to authenticate the remote administrator, and wherein the processor is configured to receive, via the second established connection, an indication of whether the remote administrator is authorized to administer the network device.

41. (Previously Presented) The apparatus of claim 34, wherein the apparatus is configured to implement a firewall that restricts traffic received from the second bus.

42-47. (Canceled)

48. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a component within the network device.

Lenovo
Ex. 1004 - Page 482

49. (Previously Presented) A method, comprising:

receiving, by a bus controller of a management device, an encrypted form of management requests via a first bus of a network device having a network interface, wherein the network device received the encrypted form of the management requests and data requests via the network interface, wherein the management requests are from a remote administrator;

conveying the encrypted form of management requests from the bus controller to a processor of management device via a second bus of the management device, wherein the network device includes a processor configured to facilitate operation of the network device, and wherein the processor of the management device is distinct from the processor included in the network device;

decrypting, by the processor, the encrypted form of the management requests; and

controlling, by the processor, one or more functions of the network device according to the management requests.

50. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a domain name service protocol.

51. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network time protocol.

52. (Previously Presented) The method of claim 49, wherein the one or more functions are associated with a network management protocol.

53. (Previously Presented) The method of claim 49, further comprising:

establishing, by the management device, a virtual private network connection with an access control server configured to authenticate the remote administrator.

Lenovo
Ex. 1004 - Page 483

54. (Previously Presented) The method of claim 49, further comprising:

receiving, by the management device, additional management requests from the remote administrator via a network interface of the management device, and wherein the additional management requests are not received via the first bus of the network device.

55. (Previously Presented) The method of claim 54, wherein the network interface of the management device is a telephone-line interface.

56. (Previously Presented) The method of claim 49, further comprising:

receiving, by the management device, power via a first power circuit separate from a second power circuit of the network device; and

cycling, by the management device, power from the second power circuit to reset the network device.

57. (Previously Presented) The method of claim 49, wherein the management device is a card including the processor and the bus controller, wherein the card is configured to be inserted into the network device via a card interface.

58. (Currently Amended) The method of claim 49, wherein the network device is a network router that includes a plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

59. (Canceled)

60. (Previously Presented) The apparatus of claim 34, wherein the apparatus is a card configured to be inserted into the network device via a card interface.

61. (Currently Amended) The apparatus of claim 34, wherein the network device is a network router that includes a plurality of network interfaces, and wherein the processor is dedicated to controlling one or more functions of the network router.

Lenovo
Ex. 1004 - Page 484

62. (Canceled)

Lenovo
Ex. 1004 - Page 485

REMARKS

The initial paragraph in the specification has been amended so that the priority claim correctly refers to U.S. Provisional Appl. No. 60/512,777 (as opposed to 60/572,777).

Claims 39, 58, and 61 are amended to correct minor typographical errors.

Entry of these amendments is respectfully requested.

Applicant respectfully requests that any credit due to overpayment be credited to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS. Although no fees are believed to be due as a result of this Rule 312 Amendment, the Commissioner is authorized to charge any fees that are required to the aforementioned deposit account.

Respectfully submitted,

Date: April 25, 2013

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

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Ex. 1004 - Page 486

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number: 11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date: November 29, 2007	§	Group/Art Unit: 2438
Title: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No.: 1104

****CERTIFICATE OF E-FILING TRANSMISSION****

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: April 25, 2013 (Date) /Paul T. Seegers/ Paul T. Seegers, #66,621

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

The official Filing Receipt issued on December 14, 2007 does not include a reference to U.S. Provisional Appl. No. 60/512,777, which is incorrect. In fact, this application is a CON of U.S. Appl. No. 10/969,561, which claims benefit of the '777 application. I have provided a copy of the Filing Receipt with the change noted thereon.

Applicants respectfully request an official Filing Receipt be issued in the above-identified application.

Respectfully submitted,

Date: April 25, 2013

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621
Agent for Applicant

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/946,976	11/29/2007	2131	510	ENGEDI 7	23	3

CONFIRMATION NO. 1104

Brian J. Teague
John H. Thomas, P.C.
536 Granite Avenue
Richmond, VA 23226

CORRECTED **FILING RECEIPT**



Date Mailed: 12/14/2007

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Jeffrey Alan Carley, Colorado Springs, CO;

Power of Attorney:
John Thomas--33460
Alexander Raring--52502
Brian Teague--55670

Domestic Priority data as claimed by applicant

This application is a CON of 10/969,561 10/20/2004
which is a CIP of 10/461,827 06/13/2003
which claims benefit of 60/388,287 06/13/2002
and claims benefit of 60/438,282 01/06/2003 which claims benefit of 60/512,777 10/21/2003

Foreign Applications

If Required, Foreign Filing License Granted: 12/12/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/946,976**

Projected Publication Date: 03/20/2008

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **

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Ex. 1004 - Page 488

Title

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

Preliminary Class

726

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where

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Ex. 1004 - Page 489

the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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NOT GRANTED

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Ex. 1004 - Page 490

Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	Paul T. Seegers/Deena Beasley
Attorney Docket Number:	6257-62712

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Petition fee- 37 CFR 1.17(f) (Group I)	1462	1	400	400
Priority Accept. Unintent. Delayed Claim	1454	1	1420	1420
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1820**

Electronic Acknowledgement Receipt

EFS ID:	15617723
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	25-APR-2013
Filing Date:	29-NOV-2007
Time Stamp:	19:02:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1820
RAM confirmation Number	5566
Deposit Account	501505
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Office of Petitions.	PetitionUnder37CFR178a3.pdf	79187 8d6777b8f34e76aaec7b43dfedcfb4c5f9fa2f9c	no	2
Warnings:					
Information:					
2	Petition for review by the Office of Petitions.	PetitionToMakeSpecialUnder37CFR182.pdf	79453 2ee1859c93f008732e58ded51ce1bbd6f45a7e4a	no	2
Warnings:					
Information:					
3		Rule_312_Amendment.pdf	78602 f4ed04efb9e3d879df4afec5b6197afbdaa3b8b1	yes	8

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment after Notice of Allowance (Rule 312)	1	1
Specification	2	2
Claims	3	7
Applicant Arguments/Remarks Made in an Amendment	8	8

Warnings:					
Information:					
4	Request for Corrected Filing Receipt	Request_for_Corrected_Filing_Receipt.pdf	3362196 e79a15a294ff334c87b44527918c8acb79968cc8	no	4
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	31985 2b51565d2652c741719a1b57d52674a269853a81	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3631423		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/946,976	11/29/2007	2438	1120	6257-62712	23	3

CONFIRMATION NO. 1104

CORRECTED FILING RECEIPT

35690
MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

OC000000060888633

Date Mailed: 05/02/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Jeffrey Alan Carley, Colorado Springs, CO;

Applicant(s)

Jeffrey Alan Carley, Colorado Springs, CO;

Power of Attorney: The patent practitioners associated with Customer Number 35690

Domestic Priority data as claimed by applicant

This application is a CON of 10/969,561 10/20/2004 PAT 7325140
which is a CIP of 10/461,827 06/13/2003 PAT 7496950
which claims benefit of 60/438,282 01/06/2003
and claims benefit of 60/388,287 06/13/2002
and said 10/969,561 10/20/2004
claims benefit of 60/512,777 10/21/2003

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 12/12/2007
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/946,976**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No

Title

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

Preliminary Class

726

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications:

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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P.O. BOX 398
AUSTIN TX 78767-0398

MAILED
MAY 02 2013
OFFICE OF PETITIONS

In re Application of :
JEFFREY ALAN CARLEY :
Application No. 11/946,976 : DECISION ON PETITIONS
Filed: November 29, 2007 :
Attorney Docket No. 6257-62712 :

This is a decision on the petition under 37 CFR 1.78(a)(3), filed April 25, 2013, which is being treated as a petition under 37 CFR 1.78(a)(6) to accept an unintentionally delayed claim under 35 U.S.C. 119(e) for the benefit of prior-filed provisional Application No. 60/512,777 set forth in the accompanying amendment to the specification. This is also in response to the petition under 37 CFR 1.182, filed April 25, 2013, requesting expedited consideration of the petition under 37 CFR 1.78(a)(6).

The petitions are **GRANTED**.

A petition for acceptance of an unintentionally delayed claim under 37 CFR 1.78(a)(6) is only applicable to those applications filed on or after November 29, 2000, and after expiration of the period specified in 37 CFR 1.78(a)(5)(ii). In addition, the petition must be accompanied by:

(1) The reference required by 35 U.S.C. 119(e) and 37 CFR 1.78(a)(5)(i) to the prior-filed provisional application, unless previously submitted;

(2) A surcharge set forth in 37 CFR 1.17(t); and,

(3) A statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

Additionally, the nonprovisional application must be pending at the time of filing of the reference to the prior-filed provisional application as required by 37 CFR 1.78(a)(5)(ii). Further, the nonprovisional application claiming the benefit of the prior-filed provisional application must have been filed within twelve months of the filing date of the prior-filed provisional application.

Applicant has satisfied all of the above requirements. Accordingly, the claim under 35 U.S.C. 119(e) for the benefit of the prior-filed provisional application is accepted as being unintentionally delayed.

The granting of the petition to accept the delayed claim for benefit of the prior-filed application under 37 CFR 1.78(a)(6) should not be construed as meaning that this application is entitled to the benefit of the filing date of the prior-filed application. In order for this application to be entitled to the benefit of the prior-filed application all other requirements under 35 U.S.C. 119(e) and 37 CFR 1.78(a)(4) and (a)(5) must be met. Similarly, the fact that the corrected filing receipt accompanying this decision on petition includes the prior-filed application should not be construed as meaning that applicant is entitled to claim benefit of the prior-filed application noted thereon. Accordingly, the examiner will, in due course, consider this benefit claim and determine whether the application is entitled to the benefit of the earlier filing date.

A corrected Filing Receipt, which includes the benefit claim to the prior-filed provisional application, accompanies this decision on petition.

The application is being forwarded to Technology Center Art Unit 2438 for consideration by the Examiner of the claim under 35 U.S.C. 119(e) for the benefit of the prior-filed provisional application.

Any inquiries concerning this decision may be directed to the undersigned at (571) 272-3211.

/Christina Tartera Donnell/

Christina Tartera Donnell
Senior Petitions Attorney
Office of Petitions

Enclosure: Corrected Filing Receipt

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/946,976	11/29/2007	2438	1120	6257-62712	23	3

CONFIRMATION NO. 1104

CORRECTED FILING RECEIPT

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MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
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OC000000060888633

Date Mailed: 05/02/2013

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Inventor(s)

Jeffrey Alan Carley, Colorado Springs, CO;

Applicant(s)

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Power of Attorney: The patent practitioners associated with Customer Number 35690

Domestic Priority data as claimed by applicant

This application is a CON of 10/969,561 10/20/2004 PAT 7325140
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and claims benefit of 60/388,287 06/13/2002
and said 10/969,561 10/20/2004
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If Required, Foreign Filing License Granted: 12/12/2007
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/946,976**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No

Title

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

Preliminary Class

726

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Bib Data Sheet

CONFIRMATION NO. 1104

SERIAL NUMBER	FILING OR 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/946,976	11/29/2007 RULE	726	2438	6257-62712

APPLICANTS

Jeffrey Alan Carley, Colorado Springs, CO;

**** CONTINUING DATA ***************************

This application is a CON of 10/969,561 10/20/2004 PAT 7325140
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**** FOREIGN APPLICATIONS *********************

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
** 12/12/2007

Foreign Priority claimed	STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ yes ☐ no	CO	32	23	3

35 USC 119 (a-d) conditions met ☐ yes ☐ no ☐ Met after Allowance

Verified and Acknowledged _____ Examiner's Signature Initials

ADDRESS
35690

TITLE

SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

FILING FEE RECEIVED		
1120	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

35690 7590 05/09/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
TRUONG, THANHNGA B	

ART UNIT	PAPER NUMBER
2438	

NOTIFICATION DATE	DELIVERY MODE
05/09/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patent_docketing@intprop.com
ptomhkkg@gmail.com

Response to Rule 312 Communication	Application No.	Applicant(s)
	11/946,976	CARLEY, JEFFREY ALAN
	Examiner	Art Unit
	THANHNGA B. TRUONG	2438

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

1. ☒ The amendment filed on *25 April 2013* under 37 CFR 1.312 has been considered, and has been:

   a) ☒ entered.

   b) ☐ entered as directed to matters of form not affecting the scope of the invention.

   c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
   Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

   d) ☐ disapproved. See explanation below.

   e) ☐ entered in part. See explanation below.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

35690 7590 02/25/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	11/29/2007	Jeffrey Alan Carley	6257-62712	1104

TITLE OF INVENTION: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1770	$300	$0	$2070	05/28/2013

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRUONG, THANHNGA B	2438	726-017000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____ 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Infinite Bay Telecom Limited Liability Company Dover, DE

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☒ Issue Fee

☒ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 501505 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /Paul T. Seegers/ Date May 28, 2013

Typed or printed name Paul T. Seegers Registration No. 66,621

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Jeffrey Alan Carley	§	Atty.Dkt.No.: 6257-62712
Serial Number:	11/946,976	§	Examiner: Truong, Thanhnga B.
Filing Date:	November 29, 2007	§	Group/Art Unit: 2438
Title:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT	§	Conf. No. 1104

******CERTIFICATE OF E-FILING TRANSMISSION******

I hereby certify that this correspondence is being transmitted via electronic filing to the United States Patent and Trademark Office on the date shown below:

On: May 28, 2013 /Paul T. Seegers/
Date Paul T. Seegers, Re No. 66,621

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Applicant acknowledges Examiner's statements of Reasons for Allowance of the above-referenced patent application and agrees that the claimed subject matter is patentable. Applicant, however, takes no position regarding the Reasons for Allowance presented by the Examiner other than the positions Applicant may have previously taken during prosecution. Therefore, the Examiner's Reasons for Allowance should not be attributed to Applicant as an indication of the basis for Applicant's belief that the claims are patentable. Furthermore, Applicant respectfully asserts that there may also be additional reasons for patentability of the claimed subject matter not explicitly stated in this record and Applicant does not waive its rights to such arguments by not further addressing such reasons herein.

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Ex. 1004 - Page 508

No fees are believed necessary; however, the Commissioner is authorized to charge any fees which may be required, or credit any overpayment, to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/6257-62712/PTS.

Respectfully submitted,

Date: May 28, 2013

By: /Paul T. Seegers/
Paul T. Seegers
Reg. No. 66,621

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P. O. Box 398
Austin, Texas 78767
(512) 853-8878

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Ex. 1004 - Page 509

Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	Paul T. Seegers/Deena Beasley
Attorney Docket Number:	6257-62712

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	1780	1780
Publ. Fee- Early, Voluntary, or Normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**2080**

Electronic Acknowledgement Receipt

EFS ID:	15887890
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Paul T. Seegers/Deena Beasley
Filer Authorized By:	Paul T. Seegers
Attorney Docket Number:	6257-62712
Receipt Date:	28-MAY-2013
Filing Date:	29-NOV-2007
Time Stamp:	19:03:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$2080
RAM confirmation Number	9219
Deposit Account	501505
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

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Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

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Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	96207 9847aa05d3ead241a5af7fc0992b5c3c50e91234	no	1
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	Reasons_for_Allowance.pdf	69566 a27f349b3a2a1a11bcd78985445712a2ac620509	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	32083 261783753d66132105a62b65bb90cef47afec66c	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	197856		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	11946976
Filing Date	2007-11-29
First Named Inventor	Jeffrey A. Carley
Art Unit	2438
Examiner Name	Truong
Attorney Docket Number	ENGEDI 7

Change(s) applied to document,
/K.S.S./
3/25/2013

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/TBT/	1	6859841		2005-02-22	Narad et al.	
/TBT/	2	6108713 ~~6188743~~		2000-08-22	Sambamurthy et al.	
/TBT/	3	5907862		1999-05-25	Smalley	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TBT/

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Ex. 1004 - Page 514

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/946,976	06/25/2013	8474016	6257-62712	1104

35690 7590 06/05/2013

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 1035 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Jeffrey Alan Carley, Colorado Springs, CO;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PTO/SB/44 (09-07)
Approved for use through 08/31/2013. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 8,474,016 B2

APPLICATION NO. : 11/946,976

ISSUE DATE : June 25, 2013

INVENTOR(S) : Carley

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Fig. 8, Sheet 8 of 32, delete "attampted?" and insert - - attempted? - -, therefor.

In Column 3, Line 13, delete "(any one" and insert - - (anyone - -, therefor.

In Column 6, Line 52, delete "protocol Terminal" and
insert - - protocol, Terminal - -, therefor.

In Column 8, Line 31, delete "fip," and insert - - ftp, - -, therefor.

In Column 9, Line 40, delete "chips set" and insert - - chip set - -, therefor.

In Column 14, Line 57, delete "provider" and insert - - Provider - -, therefor.

In Column 19, Line 55, delete "embodiment" and insert - - embodiment, - -, therefor.

In Column 20, Line 55, delete "UPS" and insert - - UPS. - -, therefor.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Maschoff Brennan
1389 Center Drive, Suite 300
Park City, Utah 84098, United States

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

PATENT NO.: 8,474,016

USPTO CONFIRMATION CODE: 1104

APPLICATION NO.: 11/946,976

FILED: NOVEMBER 29, 2007

EXAMINER: Thanhnga B. Truong

GROUP ART UNIT: 2438

FOR: SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT

37 CFR 1.322 & 37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION FOR USPTO AND/OR APPLICANT MISTAKE

Commissioner for Patents
Office of Patent Publication
ATTN: Certificate of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

A certificate of correction under 35 USC 254 is respectfully requested in the above-identified patent.

It is believed that all errors identified herein were the fault of both the applicant and USPTO and, accordingly, please charge **$100.00** to the credit card utilized for this certificate of correction filing. In the event that a further fee is required, please charge the amount to the same credit card.

The exact locations where the errors appear in the patent and patent application are as follows:

Lenovo
Ex. 1004 - Page 518

In Fig. 8, Sheet 8 of 32, delete "attampted?" and insert - - attempted? - -, therefor.
(ORIGINALLY FILED SPECIFICATION, IN THE DRAWINGS DATED NOVEMBER 29, 2007, SHEET 8 (PAGE 484 OF FW), FIGURE 8)

In Column 3, Line 13, delete "(any one" and insert - - (anyone - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 5, LINE 3)

In Column 6, Line 52, delete "protocol Terminal" and
insert - - protocol, Terminal - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 10, LINE 11)

In Column 8, Line 31, delete "fip," and insert - - ftp, - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 12, PARAGRAPH [0052], LINE 4)

In Column 9, Line 40, delete "chips set" and insert - - chip set - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 14, PARAGRAPH [0059], LINE 2)

In Column 14, Line 57, delete "provider" and insert - - Provider - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 22, PARAGRAPH [00119], LINE 4)

In Column 19, Line 55, delete "embodiment" and insert - - embodiment, - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 29, PARAGRAPH [00152], LINE 1)

In Column 20, Line 55, delete "UPS" and insert - - UPS. - -, therefor.
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2007, PAGE 30, PARAGRAPH [00155], LINE 12)

The requested corrections are attached on Form PTO/SB/44.

Dated this 3rd day of March, 2014.

Respectfully Submitted,

/R. Burns Israelsen/ Reg. # 42,685
R. BURNS ISRAELSEN
Acting in Representative Capacity
(37 CFR 1.34)
Registration No. 42,685
Telephone No. (435) 252-1360

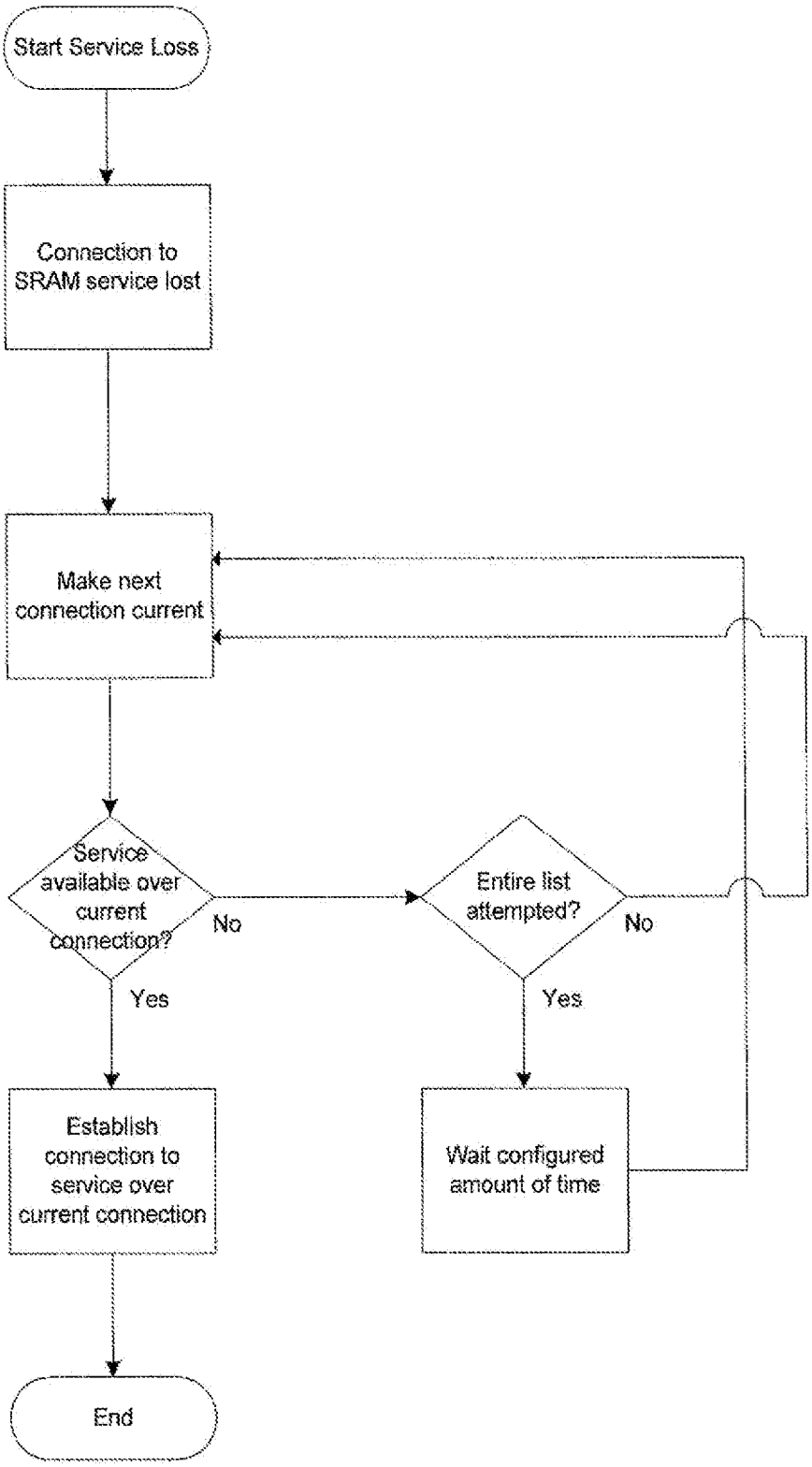

Start Service Loss
Connection to SRAM service lost
Make next connection current
Service available over current connection?
No
Yes
Entire list attempted?
No
Yes
Establish connection to service over current connection
Wait configured amount of time
End

Fig. 8

Electronic Patent Application Fee Transmittal

Application Number:	11946976
Filing Date:	29-Nov-2007
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Filer:	Robert Burns Israelsen/Jeffrey Woodward
Attorney Docket Number:	6257-62712

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Certificate of Correction	1811	1	100	100
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**100**

Electronic Acknowledgement Receipt

EFS ID:	18354438
Application Number:	11946976
International Application Number:	
Confirmation Number:	1104
Title of Invention:	SECURE MANAGEMENT ACCESS CONTROL FOR COMPUTERS, EMBEDDED AND CARD EMBODIMENT
First Named Inventor/Applicant Name:	Jeffrey Alan Carley
Customer Number:	35690
Filer:	Robert Burns Israelsen/Jeffrey Woodward
Filer Authorized By:	Robert Burns Israelsen
Attorney Docket Number:	6257-62712
Receipt Date:	03-MAR-2014
Filing Date:	29-NOV-2007
Time Stamp:	17:40:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$100
RAM confirmation Number	4065
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

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Ex. 1004 - Page 523

1	Request for Certificate of Correction	2664USCN180880_2014-03-03_CoC.pdf	254029 631134166050096d0356062acfa154450ed0ed08	no	2
Warnings:					
Information:					
2	Request for Certificate of Correction	2664USCN180880_2014-03-03_Request_Letter.pdf	160134 b417063ae3ce69e6b6c984516524d5ea228746e2	no	2
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	2664USCN180880_2014-03-03_Replacement_Sheet.pdf	185378 f10f2eea02792c50e2339edc278d454f79870e14	no	1
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30310 110ecfa1518db96929e1a5683495ba634cbed8eb	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	629851	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

DATE : 4/16/2014

TO SPE OF : ART UNIT 2438 - Arani Taghi (spe)

SUBJECT : Request for Certificate of Correction for Appl. No.: 11/946976 Patent No.: 8474016

CofC mailroom date: _____

Please respond to this request for a certificate of correction within 7 days.

FOR IFW FILES:

Please review the requested changes/corrections as shown in the **COCIN** document(s) in the IFW application image. No new matter should be introduced, nor should the scope or meaning of the claims be changed.

Please complete the response (see below) and forward the completed response to scanning using document code **COCX**.

FOR PAPER FILES:

Please review the requested changes/corrections as shown in the attached certificate of correction. Please complete this form (see below) and forward it with the file to:

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Randolph Square – 9D10-A
Palm Location 7580

Note: _____

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571-272-8680 _____

Thank You For Your Assistance

The request for issuing the above-identified correction(s) is hereby:
Note your decision on the appropriate box.

- ☐ **Approved** — **All** changes apply.
- ☐ **Approved in Part** — Specify below which changes **do not** apply.
- ☐ **Denied** — State the reasons for denial below.

Comments: _____

_____

_____

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_____ _____
SPE **Art Unit**

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address : COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
11/946,976	29 November, 2007	CARLEY, JEFFREY ALAN	6257-62712

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.
P.O. BOX 398
AUSTIN, TX 78767-0398

EXAMINER	
THANHNGA B. TRUONG	
ART UNIT	PAPER
2438	20140508

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This communication letter is to correct some typographical errors (see PTO 1050 Certificate of Correction form attached) that was requested by the applicant for Certificate of Correction filed on March 03, 2014.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438

PTO-90C (Rev.04-03)

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

DATE : 4/16/2014

TO SPE OF : ART UNIT 2438 Arani Taghi (SPE)

SUBJECT : Request for Certificate of Correction for Appl. No.: 11/946,976 Patent No.: 8474016

CofC mailroom date: _____

Please respond to this request for a certificate of correction within 7 days.

FOR IFW FILES:

Please review the requested changes/corrections as shown in the **COCIN** document(s) in the IFW application image. No new matter should be introduced, nor should the scope or meaning of the claims be changed.

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- ☒ **Approved** — **All** changes apply.
- ☐ **Approved in Part** — Specify below which changes **do not** apply.
- ☐ **Denied** — State the reasons for denial below.

Comments: _____

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SPE

2438
Art Unit

Lenovo
Ex. 1004 - Page 527

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: 8,474,016

DATED: November 29, 2007

INVENTOR(S): Carley, Jeffrey Alan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Fig. 8, Sheet 8 of 32, delete "attampted?" and insert - - attempted? - -, therefor.

In Column 3, Line 13, delete "(any one" and insert - - (anyone - -, therefor.

In Column 6, Line 52, delete "protocol Terminal" and insert - - protocol, Terminal - -, therefor.

In Column 8, Line 31, delete "tip," and insert - - ftp, - -, therefor.

In Column 9, Line 40, delete "chips set" and insert - - chip set - -, therefor.

In Column 14, Line 57, delete "provider" and insert - - Provider - -, therefor.

In Column 19, Line 55, delete "embodiment" and insert - - embodiment, - -, therefor.

In Column 20, Line 55, delete "UPS" and insert - - UPS. - -, therefor.

/TAGHI ARANI/
Supervisory Patent Examiner.Art Unit 2438

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 8,474,016 B2
APPLICATION NO. : 11/946976
DATED : June 25, 2013
INVENTOR(S) : Carley

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Drawings:

Fig. 8, Sheet 8 of 32, delete "attampted?" and insert -- attempted? --, therefor.

Fig. 8 should be replaced with the corrected Fig. 8 as shown on the attached page.

In the Specification:

Column 3, Line 13, delete "(any one" and insert -- (anyone --, therefor.

Column 6, Line 52, delete "protocol Terminal" and insert -- protocol, Terminal --, therefor.

Column 8, Line 31, delete "tip," and insert -- ftp, --, therefor.

Column 9, Line 40, delete "chips set" and insert -- chip set --, therefor.

Column 14, Line 57, delete "provider" and insert -- Provider --, therefor.

Column 19, Line 55, delete "embodiment" and insert -- embodiment, --, therefor.

Column 20, Line 55, delete "UPS" and insert -- UPS. --, therefor.

Signed and Sealed this
First Day of July, 2014

Michelle K. Lee

Michelle K. Lee
Deputy Director of the United States Patent and Trademark Office

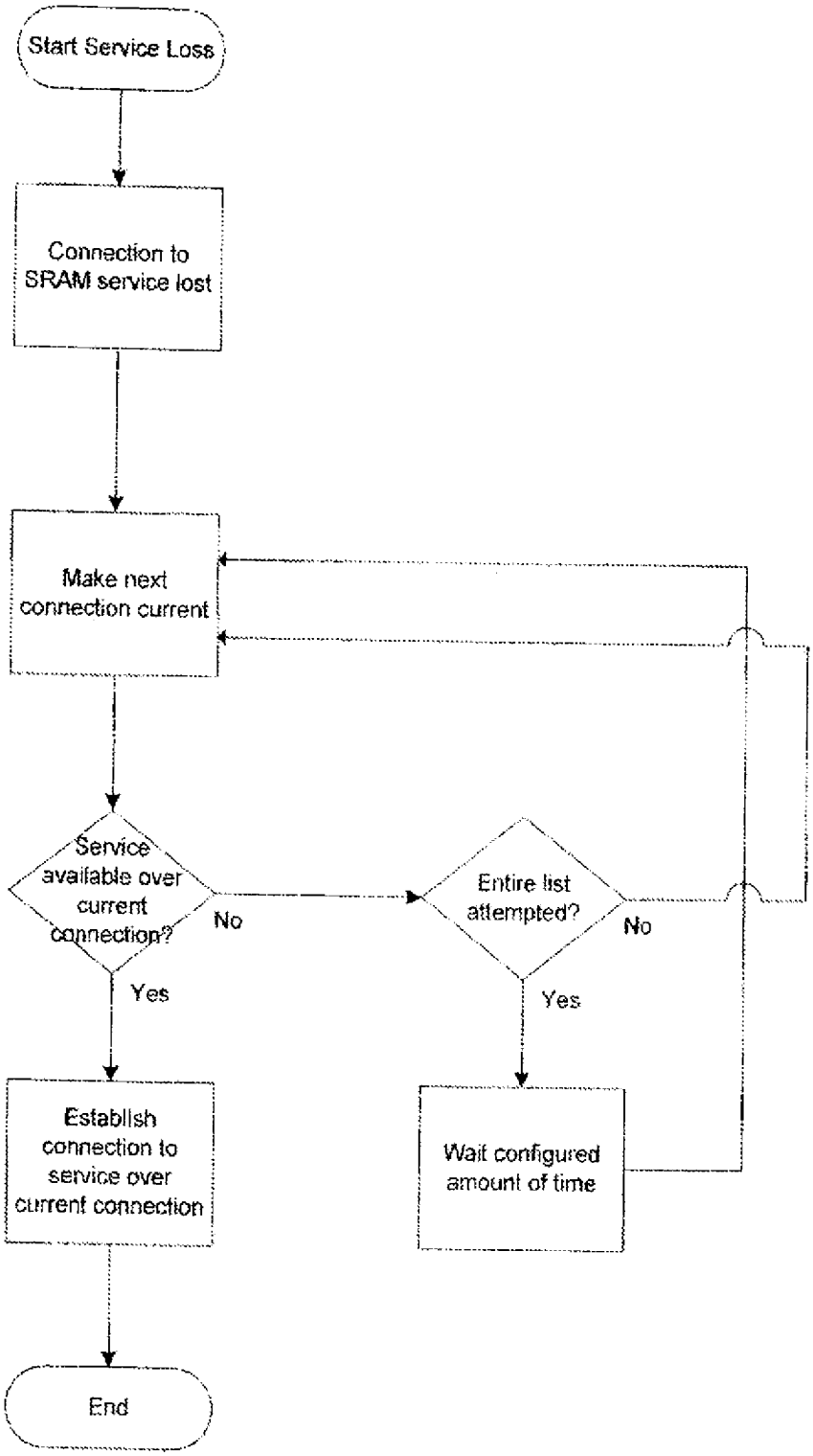

Start Service Loss
Connection to SRAM service lost
Make next connection current
Service available over current connection?
No
Yes
Entire list attempted?
No
Yes
Establish connection to service over current connection
Wait configured amount of time
End

Fig. 8

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Western District of Texas, Waco Division on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:22-cv-703	6/30/2022	for the Western District of Texas, Waco Division

PLAINTIFF	DEFENDANT
INTELLECTUAL VENTURES II LLC	HEWLETT PACKARD ENTERPRISE CO.

Format m/d/yyyy

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,325,140	1/29/2008	Intellectual Ventures II LLC
2	8,474,016	6/25/2013	Intellectual Venturesf II LLC
3			
4			
5			

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

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