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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
61/407,358	10/27/2010		220	RALEP039+		

CONFIRMATION NO. 4268

21912
VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014

FILING RECEIPT



OC000000044561376

Date Mailed: 11/22/2010

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Applicant(s)

Gregory G. Raleigh, Woodside, CA;

Power of Attorney:

Michael Schallopp--44319

If Required, Foreign Filing License Granted: 11/18/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/407,358**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

Title

SERVICE CONTROLLER AND SERVICE PROCESSOR ARCHITECTURE

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Document Description: Provisional Cover Sheet (SB16)

PTO/SB/16 (04-07)

Approved for use through 06/30/2010 OMB 0851-0032

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Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

Remove

Given Name	Middle Name	Family Name	City	State	Country i
Gregory	G.	Raleigh	Woodside	CA	US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

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Title of Invention	SERVICE CONTROLLER AND SERVICE PROCESSOR ARCHITECTURE
Attorney Docket Number (if applicable)	RALEP039+

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Customer Number 21912

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are:

Entity Status

Applicant claims small entity status under 37 CFR 1.27

- ☐ Yes, applicant qualifies for small entity status under 37 CFR 1.27
- ☒ No

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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Michael J. Schallop/			Date (YYYY-MM-DD)	2010-10-27
First Name	Michael J.	Last Name	Schallop	Registration Number (If appropriate)	44319

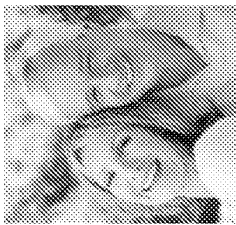
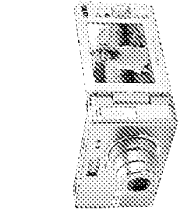
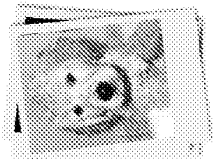
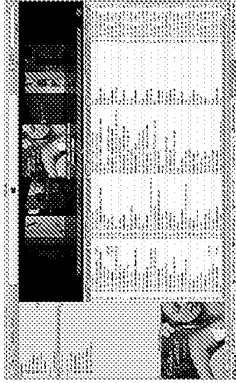
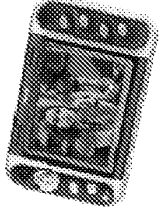
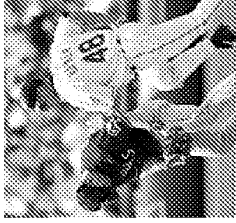
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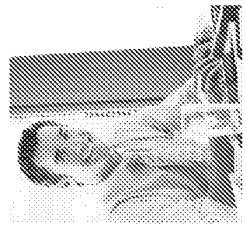
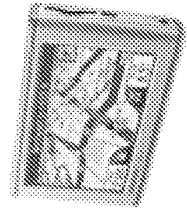
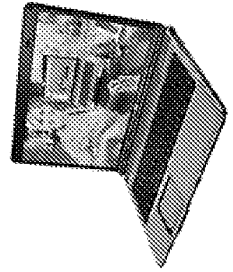
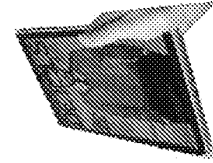
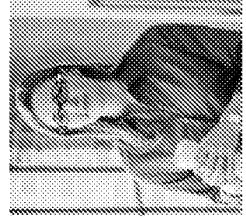
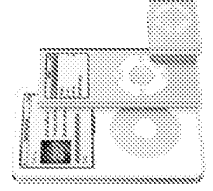
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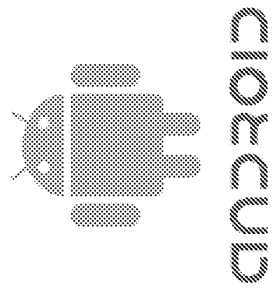
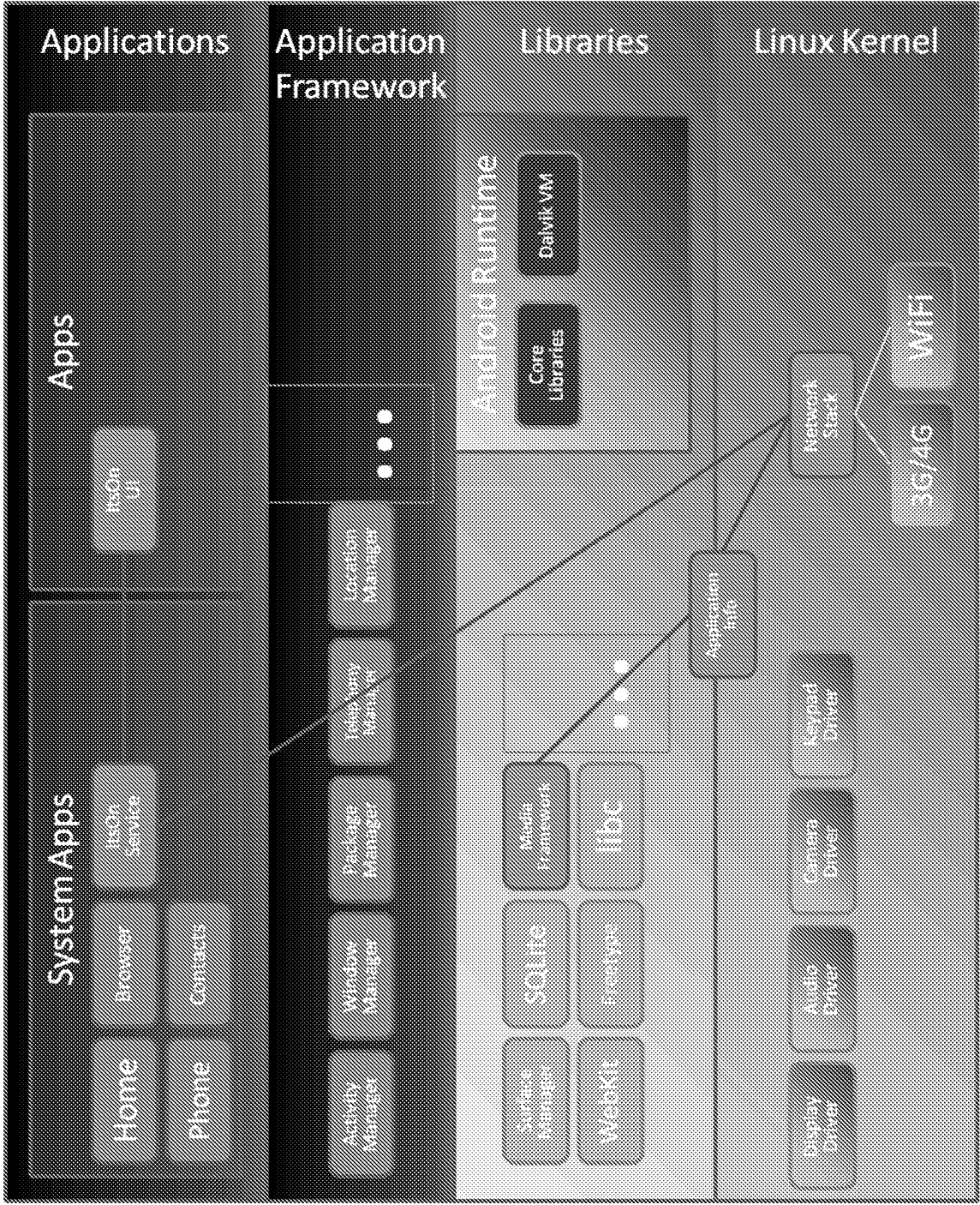
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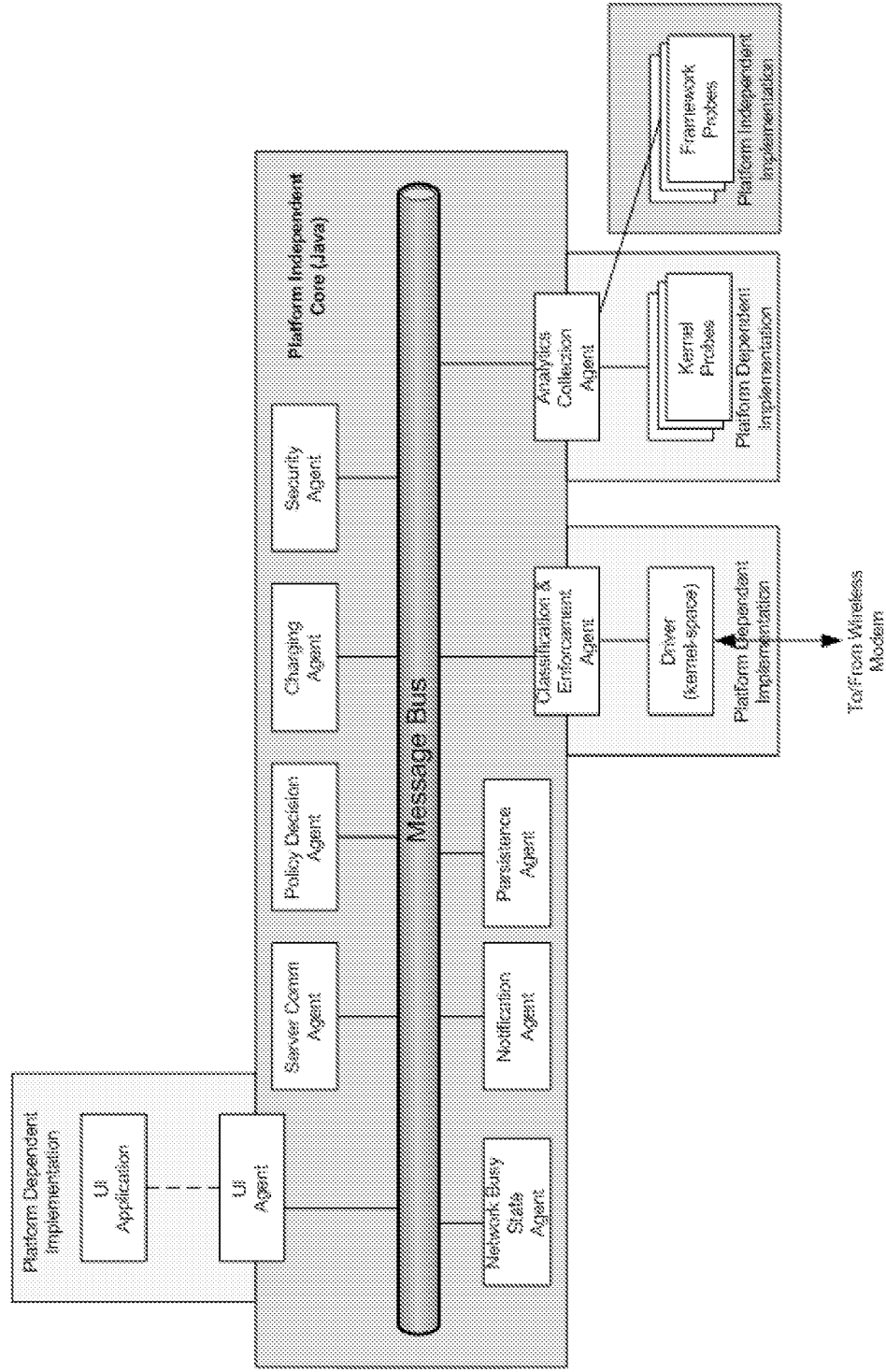
ItsOn Service Processor and Service Controller Architecture Overview



ItsOn in Android



Service Processor Architecture Overview

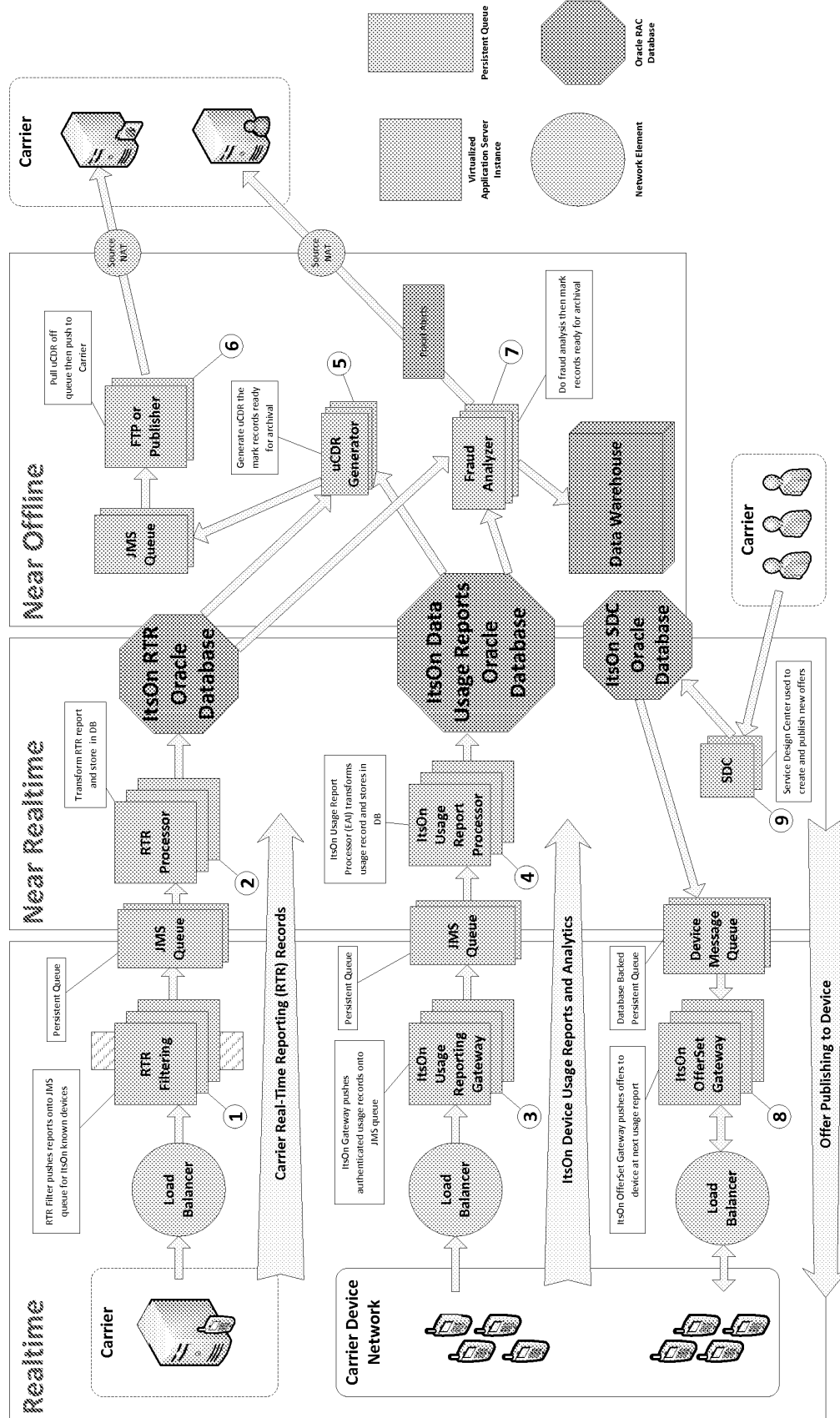


Service Processor Agent Description



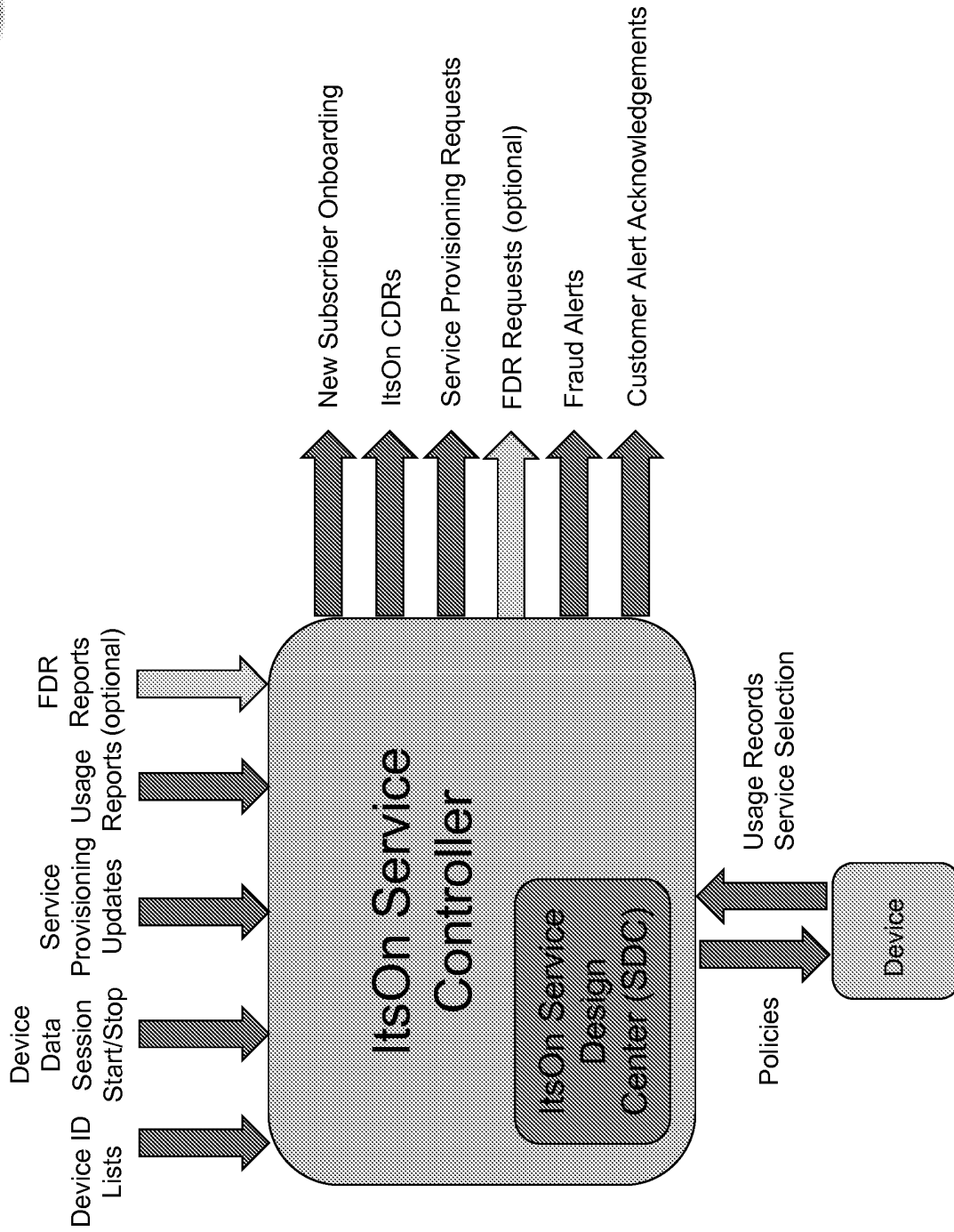
Agent	High Level Functions
UI	Communicates events between the UI applications and the core services (e.g., notification messages, plan selection, etc.).
Server Comm	Communicates messages between the Service Controller (cloud) and the Service Processor (client).
Policy Decision	Manages policy state based on usage events received from the charging agent, network busy state and available networks. Communicates policy updates to Classification & Enforcement.
Charging	Processes usage reports from Classification & Enforcement, generates usage reports for the Service Controller and UI, and generates "% of plan" usage updates for Policy Decision and Notification Agents.
Security	Verifies integrity of the Service Processor agents, authenticates with the Service Controller, verifies usage vs. policy limits. Reports abnormalities to the Service Controller.
Network Busy State	Monitors network-busy information and generates Network Busy State change events for Policy Decision (to update policy state).
Notification	Receives usage updates from Charging and action events (e.g., block, cap, throttle, etc.) from Classification & Enforcement and generates the appropriate Notifications (based on policy) and sends the events to UI Agent.
Persistence	Manages and controls access to/from locally persisted data storage (e.g., local usage data, current policy set, etc.).
Classification & Enforcement	Interfaces with the Driver to communicate policy set for enforcement and to receive usage stats and event actions (e.g., cap, block, throttle, etc.).
Analytics Collection	Collects analytics information from all of the probes in the system, normalizes them, stores them locally, periodically sends them to Service Controller via Server Comm.

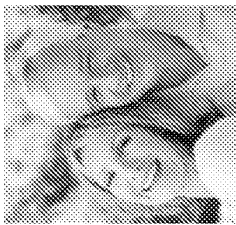
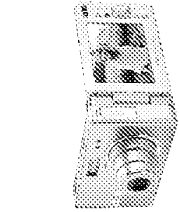
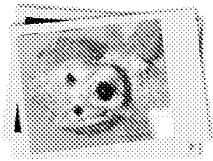
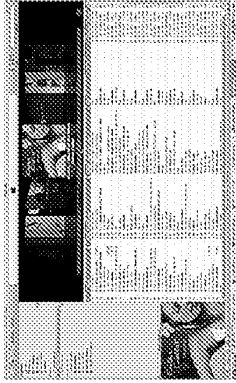
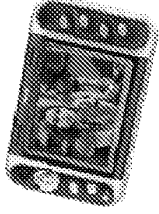
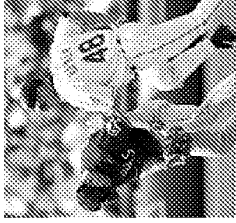
Service Controller Deployment Overview



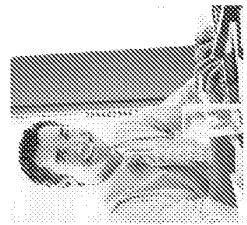
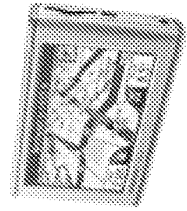
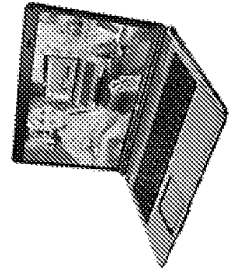
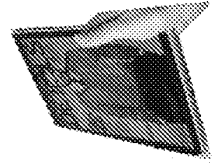
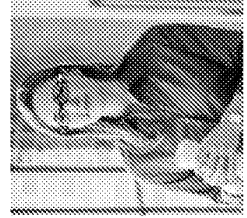
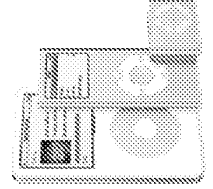


Service Controller Overview





Service Controller Interfaces and Workflows



Device List Interface (Inbound)



- Purpose: Provide ItsOn Service Controller with device ID and credentials of devices that are ItsOn-enabled. Devices are loaded to the ItsOn Service Controller and associated with the appropriate Device Group. Devices must be loaded to the ItsOn Service Controller prior to the end-user attempting to use the ItsOn Service Processor/Client on the device.
- Preferred Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Alternative Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Data Elements:
 - IMSI/MSID
 - MDN/MSIDSN
 - MEID/IMEI
 - Device Group

Device Data Session Start/Stop Interface (Inbound)



- Purpose: Provide ItsOn Service Controller notification when a user data session starts and stops.
- Preferred Interface Strategy: Single Device
 - Protocol: Radius or Diameter (Note: Diameter could provide “interim accounting” updates)
 - Format: Fixed length records
- Alternative Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Data Elements:
 - IMSI/MSID
 - MEID/IMEI
 - Status (Start/Stop/Interim)
 - Bytes MO (optional)
 - Bytes MT (optional)

Service Provisioning Update Interface (Inbound)



- Purpose: Provide ItsOn Service Controller with updated service plan selections for a device. Service Provisioning Updates are sent only for ItsOn-enabled devices.
- Interface is optional, depends on implementation
- Preferred Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - IMSI/MSID
 - MDN/MSISDN
 - MEID/IMEI
 - Service plan selection information
 - Service plan/charging code(s)
 - Plan start/end date/time(s)

Network Usage Report Interface (Inbound)



- Purpose: Provide ItsOn Service Controller with data usage information for a device. Network Usage Reports are sent only for ItsOn-enabled devices.
- Preferred Interface Strategy: Single Device
 - Protocol : Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - IMSI/MSID
 - MDN/MSISDN
 - MEID/IMEI
 - Usage report start time
 - Usage report end time
 - MO bytes used
 - MT bytes used
 - Service plan/charging code
 - Percentage of plan used



FDR Report Interface (Inbound)

- * Purpose: Provide ItsOn Service Controller with detailed data usage information for a device, based on a prior FDR Report request initiated by the ItsOn Service Controller
- * Interface is optional – depends on implementation
- * Preferred Interface Strategy: Single Device
 - * Protocol1: Web Services
 - * Format1: XML
- or
- * Protocol2: GTP
- * Format2: GTP'
- * Alternative Interface Strategy: Batch
- * Protocol: FTP
- * Format: Fixed length records
- * Data Elements:
 - * IMSI/MSID
 - * MDN/MSISDN
 - * MEID/IMEI
 - * Usage report start time
 - * Usage report end time
- * Usage data []
 - * Remote IP address
 - * Remote port
 - * MO bytes used
 - * MT bytes used

New Subscriber Onboarding Interface (Outbound)



- Purpose: Provide carrier systems with initial subscriber, billing, device and service selection information
- Preferred Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - Device data (MEID, IMSI, etc.)
 - Subscriber data (name, address, etc.)
 - Billing data (credit card info, billing address, etc.)
 - Selected service plan(s)/charging code(s)
 - Acceptance of T&C

ItsOn CDR Delivery Interface (Outbound)



- Purpose: Provide carrier systems with detailed device usage information
- Preferred Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Alternative Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Data Elements:
 - MEID/IMEI
 - IMSI/MSID
 - MDN/MSISDN
 - Start Time
 - End Time
 - Usage Data[]
 - Service plan/charging code
 - MO bytes used
 - MT bytes used

Service Provisioning Request Interface (Outbound)



- Purpose: Provide carrier systems with subscriber service selection information
- Preferred Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - MEID/IMEI
 - IMSI/MSID
 - MDN/MSISDN
 - Selected service plan(s)/charging code(s)
 - T&C Acceptance



FDR Request Interface (Outbound)

- Purpose: Request FDRs for a specific subscriber for a specific period of time
- Interface is optional – depends on implementation
- Preferred Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - MEID/IMEI
 - IMSI/MSID
 - MDN/MSISDN
 - Start time
 - End time



Fraud Alert Interface (Outbound)

- Purpose: Notify carrier systems of potential fraud detection
- Preferred Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - MEID/IMEI
 - IMSI/MSID
 - MDN/MSISDN
 - Fraud start time
 - Fraud end time
 - Affected service plan/charging code
 - Fraud Reason Code (e.g., no device report, count mismatch, etc.)

Customer Acknowledgement Interface (Outbound)



- Purpose: Notify carrier systems of end-user selecting “Acknowledge” on notifications that have an “Acknowledge” option specified
- Preferred Interface Strategy: Single Device
 - Protocol: Web Services
 - Format: XML
- Alternative Interface Strategy: Batch
 - Protocol: FTP
 - Format: Fixed length records
- Data Elements:
 - MEID/IMEI
 - IMSI/MSID
 - MDN/MSISDN
 - Acknowledge time
 - Acknowledge event (e.g., allow overage)
 - Acknowledge service plan/charging code(e.g., 50 MB browsing plan)

Service Selection/Provisioning Workflow



- Purpose: Enable the end-user to purchase service on the device
- Process:
 - End-user selects service(s) for purchase on the device
 - ItsOn Service Processor (SP) sends service selection(s) to ItsOn Service Controller (SC)
 - ItsOn SC sends message over Service Provisioning Request Interface
 - ItsOn SC receives update on Service Provisioning Update Interface
 - ItsOn SC generates a policy set for the ItsOn SP
 - ItsOn SC sends the policy set to the ItsOn SP
 - ItsOn SP applies policy set to the device



Usage Verification Workflow

- Purpose: Validate ItsOn device data usage reports with carrier usage reports
- Process:
 - ItsOn SP sends periodic usage updates to the ItsOn SC
 - Carrier usage reporting system sends device usage report to ItsOn SC
 - For the time period specified in the carrier usage report, the ItsOn SC performs validation of ItsOn SP records vs. policy limits, usage metrics, etc. If an error is detected:
 - ItsOn SC requests FDR data for the time period specified in the carrier usage report
 - ItsOn SC sets the “potential fraud” indicator for this device and time period
 - For the time period specified in the carrier usage report, ItsOn SC compares aggregated usage counts in the carrier usage report vs. ItsOn SP usage reports. If an error is detected:
 - ItsOn SC requests FDR data for the time period specified in the carrier usage report
 - ItsOn SC sets the “potential fraud” indicator for this device and time period
 - If the “potential fraud” indicator is not set, ItsOn SC generates ItsOn CDR records (with detailed charging codes) for the device usage for the time period specified in the carrier usage record and sends the CDRs to the carrier via the ItsOn CDR Interface.
 - If the “potential fraud” indicator is set:
 - ItsOn SC waits for the FDRs report for the device
 - When the FDR report is received, ItsOn SC performs validation of device usage reports vs. FDR usage reports. If the counts do not agree, ItsOn SC sends a Fraud Alert message via the Fraud Alert interface
 - If the counts agree, ItsOn SC generates ItsOn CDR records (with detailed charging codes) for the device usage for the time period specified in the carrier usage record and sends the CDRs to the carrier via the ItsOn CDR Interface.

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		SERVICE CONTROLLER AND SERVICE PROCESSOR ARCHITECTURE		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Michael J. Schallop/Veronica Pula		
Attorney Docket Number:		RALEP039+		
Filed as Large Entity				
Provisional Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional application filing	1005	1	220	220
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:				
Total in USD (\$)				220

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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Provisional Cover Sheet (SB16)	RALEP039plus_Provisional_Application_Coversheet.pdf	999996	no	3
			ad4284d9bc2b7534cf8fa0e90d0d428f5a8d1950		
Warnings:					
Information:					
2	Specification	RALEP039plus_App.pdf	1094901	no	20
			dd73cfe3561713e8cfd31c8b6bcc449d69984b9		
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	29463	no	2
			e55025f02de46bf07686f15c44ad976d28cd7de		
Warnings:					
Information:					
Total Files Size (in bytes):			2124360		
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