

List of Challenged Claims - USP 8,578,285

Claims 1-10, 13, 17-18, 36	Claim 37-41	Claim 42
1. [1.1] An apparatus to provide secure user-centric information via a plurality of user platforms operated by a user, the apparatus comprising: [1.2] at least one communication interface to facilitate wired and/or wireless communications with the plurality of user platforms via one or more transmission media; [1.3] at least one memory to store processor-executable instructions; and at least one processor communicatively coupled to the at least one communication interface and the at least one memory, wherein upon execution of the processor-executable instructions by the at least one processor, the at least one processor establishes a user session to manage provision of and interaction with the secure user-centric information by: [1.4] A) implementing a channel grid framework including a matrix of a plurality of channels through which the user receives and/or interacts with, via the plurality of user platforms, respective portions of the secure user-centric information, [1.5] wherein the at least one processor is configured to synchronize functions and features of one or more of the plurality of channels across two or more of the plurality of user platforms by deploying the secure user-centric information to two or more of the plurality of user	37. [37.1] A method for providing secure user-centric information via a plurality of user platforms operated by a user, the method comprising: [37.2] A) implementing a channel grid framework including a matrix of a plurality of channels through which the user receives and/or interacts with, via the plurality of user platforms, respective portions of the secure user-centric information, [37.3] wherein implementing the plurality of channels comprises synchronizing functions and features of one or more of the plurality of channels across two or more of the plurality of user platforms deploying the secure user-centric information to two or more of the plurality of user platforms; [37.4] establishing a user profile identifying user preferences, platform identities, and service support instructions that determine how the secure user-centric information behaves on at least one platform of the plurality of user platforms; [37.5] C) receiving, from at least one user platform of the plurality of user platforms, a user identity for the user and a platform identity for the at least one user platform; [37.6] D) authenticating the user and the at least one user platform to receive the secure user-centric	42. [42.1] At least one non-transitory computer readable storage medium storing processor-executable instructions that, when executed by at least one processor, perform a method for providing secure user-centric information via a plurality of user platforms operated by a user, the method comprising: [42.2] A) implementing a channel grid framework including a matrix of a plurality of channels through which the user receives and/or interacts with, via the plurality of user platforms, respective portions of the secure user-centric information [42.3] wherein implementing the plurality of channels comprises synchronizing functions and features of one or more of the plurality of channels across two or more of the plurality of user platforms by deploying the secure user-centric information to two or more of the plurality of user platforms; [42.4] B) establishing a user profile identifying user preferences, platform identities, and service support instructions that determine how the secure user-centric information behaves on at least one platform of the plurality of user platforms; [42.5] C) receiving, from at least one user platform of the plurality of user platforms, a user identity for the user and a platform

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EXHIBIT 1040**

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platforms; [1.6] B) establishing a user profile identifying user preferences, platform identities, and service support instructions that determine how the secure user-centric information behaves on at least one platform of the plurality of user platforms; [1.7] C) controlling the at least one communication interface to receive, from the at least one user platform of the plurality of user platforms, a user identity for the user and a platform identity for the at least one user platform; [1.8] D) authenticating the user and the at least one user platform to receive the secure user-centric information based at least in part on the user identity and the platform identity; and [1.9] E) if the user and the at least one user platform are authenticated in C), controlling the at least one communication interface so as to transmit to the at least one user platform first authenticated channel information relating to at least one authorized channel of the plurality of channels implemented in A), based at least in part on information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the at least one user platform, [1.10] wherein at least a portion of the first authenticated channel information to be transmitted to the at least one user platform is	information based at least in part on the user identity and the platform identity; and [37.7] E) if the user and the at least one user platform are authenticated in C), transmitting to the at least one user platform first authenticated channel information relating to at least one authorized channel of the plurality of channels implemented in A), based at least in part on information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the at least one user platform, [37.8] wherein at least a portion of the first authenticated channel information to be transmitted to the at least one user platform is selected based at least in part on the user profile and is transmitted to the at least one user platform without being requested by the user, [37.9] wherein the transmission of the first authenticated channel information to the at least one user platform is based in part on a bidirectional interrogation of the at least one authorized channel, wherein the bi-directional interrogation comprises the at least one authorized channel interrogating an identity management server, and [37.10] wherein the bi-directional interrogation further comprises the identity management server and a web services gateway interrogating the at least one authorized channel, wherein the	identity for the at least one user platform; [42.6] D) authenticating the user and the at least one user platform to receive the secure user-centric information based at least in part on the user identity and the platform identity; and [36.7] F) determining a notification method by which to provide at least one alert on the at least one external device based on the current state of the at least one external device indicated by the session data; [42.7] E) if the user and the at least one user platform are authenticated in C), transmitting to the at least one user platform first authenticated channel information relating to at least one authorized channel of the plurality of channels implemented in A), based at least in part on information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the at least one user platform, [42.8] wherein at least a portion of the first authenticated channel information to be transmitted to the at least one user platform is selected based at least in part on the user profile and is transmitted to the at least one user platform without being requested by the user, [42.9] wherein the transmission of the first authenticated channel information to the at least one user platform is based in part on a bi-directional interrogation of the

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selected by the processor based at least in part on the user profile and is transmitted to the at least one user platform without being requested by the user, [1.11] wherein the transmission of the first authenticated channel information to the at least one user platform is based in part on a bi-directional interrogation of the at least one authorized channel, wherein the bi-directional interrogation comprises the at least one authorized channel interrogating an identity management server, and [1.12] wherein the bi-directional interrogation further comprises the identity management server and a web services gateway interrogating the at least one authorized channel, wherein the web services gateway is a tool through which the channel grid framework interacts with the identity management server.	web services gateway is a tool through which the channel grid framework interacts with the identity management server.	at least one authorized channel, wherein the bi-directional interrogation comprises the at least one authorized channel interrogating an identity management server, and [42.10] wherein the bi-directional interrogation further comprises the identity management server and a web services gateway interrogating the at least one authorized channel, wherein the web services gateway is a tool through which the channel grid framework interacts with the identity management server.
2. [2.1] The apparatus of claim 1, wherein the secure user-centric information includes at least one of: text information; graphic information; one or more pictures; one or more videos; audio or digital sound; streaming data, audio or video; content associated with an executing computer application; voice-over-IP communication; instant messaging/SMS information; video-conferencing information; environmental monitoring information; financial services information; enterprise resource planning information; enterprise content management information; building information; project	38. [38.1] The method of claim 37, wherein: the method further comprises establishing the user profile as part of an authentication directory including a plurality of user accounts, a plurality of device accounts, and a plurality of application accounts; and C) comprises authenticating the user and the at least one user platform based at least in part on the plurality of user accounts and the plurality of device accounts included in the authentication directory; and the method further comprises authenticating specific ones of the plurality of channels based at least in part on the plurality of application accounts	

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management information; product lifecycle management information; RSS (Really Simple Syndication) reader information; remote device control/interaction information; a three-dimensional graphic visualization of one or more objects and/or immersive environments; one or more word processing documents; one or more spreadsheets; one or more presentation/slide shows; email; and address book information.	included in the authentication directory.	
3. [3.1] The apparatus of claim 1, wherein the first authenticated channel information is provided by at least one authenticated channel application and/or at least one authenticated service.	39. [39.1] The method of claim 38, wherein: at least one user account of the plurality of user accounts includes at least one entry comprising at least one of: a user name; a user password; a user email; a user mailstop; a user telephone number; a user mobile number; a user building; a user campus; and at least one user group; and in C, the user is authenticated if the user identity matches the at least one entry.	
4. [4.1] The apparatus of claim 1, wherein the at least one communication interface includes a web services gateway communicatively coupled to the at least one user platform server via the one or more transmission media.	40. [40.1] The method of claim 39, wherein: at least one device account of the plurality of device accounts includes at least one entry comprising at least one of: a device name; a device type; a device manufacturer; a device model number; a device serial number; a device IP address; a device location; a device user; and a device password; and in C, the user platform is authenticated if the platform identity matches the at least one entry.	
5. [5.1] The apparatus of claim 1, wherein: C) comprises authenticating the user and the user platform based at least in part on the user profile; and D) comprises transmitting the first authenticated channel information to the at least	41. [41.1] The method of claim 40, wherein: at least one application account of the plurality of application accounts includes at least one application user and at least one additional entry comprising at least one of:	

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one user platform based at least in part on the user profile.	an application name; an application serial number; at least one application module; at least one application web service; at least one application interface; at least one application protocol; at least one application host; an application IP address; an application location; and an application password; and the specific ones of the multiple channels are authenticated if the user identity matches the at least one application user.	
6. [6.1] The apparatus of claim 1, wherein: the at least one memory stores an authentication directory to provide the information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the at least one user platform; the authentication directory includes a plurality of user accounts, a plurality of device accounts, and a plurality of application accounts; and C) comprises authenticating the user and the at least one user platform based at least in part on the plurality of user accounts and the plurality of device accounts included in the authentication directory.		
7. [7.1] The apparatus of claim 6, wherein: at least one user account of the plurality of user accounts includes at least one entry comprising at least one of: a user name; a user password; a user email; a user mailstop; a user telephone number; a user mobile number; a user building; a user campus; and at least one user group; and C) comprises authenticating the user if the user identity matches the at least one entry.		
8. [8.1] The apparatus of claim 6, wherein: at least one device		

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account of the plurality of device accounts includes at least one entry comprising at least one of: a device name; a device type; a device manufacturer; a device model number; a device serial number; a device IP address; a device location; a device user; and a device password; and C) comprises authenticating the user platform if the platform identity matches the at least one entry.		
9. [9.1] The apparatus of claim 8, wherein C) comprises authenticating the at least one user platform based at least in part on a location of the at least one user platform.		
10. [10.1] The apparatus of claim 6, wherein D) comprises: transmitting to the at least one user platform the first authenticated channel information based at least in part on the plurality of application accounts included in the authentication directory.		
13. [13.1] The apparatus of claim 1, wherein in D), the at least one processor further manages the provision of and interaction with the secure user-centric information by: D 1) controlling the at least one communication interface to transmit channel information corresponding to at least some of the plurality of channels implemented in A), including the first authenticated channel information, to the at least one user platform so as to facilitate display of a desktop for the at least one user platform as a channel grid framework, the channel grid framework including a plurality of user-		

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selectable items representing the at least some of the plurality of channels implemented in A), wherein, in D 1), the plurality of user-selectable items included in the channel grid framework is based at least in part on the information access rights and/or the security protocols respectively associated with the corresponding plurality of channels, the user, and the user platform.		
17. [17.1] The apparatus of claim 1, wherein the first authenticated channel information includes at least one of: text information; graphic information; one or more pictures; one or more videos; audio or digital sound; streaming data, audio or video; content associated with an executing computer application; voice-over-IP communication; instant messaging/SMS information; video-conferencing information; environmental monitoring information; financial services information; enterprise resource planning information; enterprise content management information; building information; project management information; product lifecycle management information; RSS (Really Simple Syndication) reader information; remote device control/interaction information; a three-dimensional graphic visualization of one or more objects and/or immersive environments; one or more word processing documents; one or more spreadsheets; one or more presentation/slide		

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shows; email; and address book information.		
18. [18.1] The apparatus of claim 1, wherein: in A), the at least one processor implements a channel server that defines one or more visual characterizations, one or more functions or features, and/or one or more information types provided by respective channels of the plurality of channels; the channel server implements at least the at least one authorized channel; and the at least one memory further stores at least one database including registries to one or more services and/or applications used by the channel server to implement the at least one authorized channel and provide the first authenticated channel information.		
36. [36.1] The apparatus of claim 1, wherein the one or more of the plurality of channels interrogating the identity management server comprises the one or more of the plurality of channels evaluating content provided by the identity management server and determining if services of the one or more of the plurality of channels are available, and wherein the identity management server and the web services gateway interrogating the one or more of the plurality of channels comprises the identity management server evaluating content provided by the one or more of the plurality of channels.		