METHOD FOR PROVIDING WIRELESS APPLICATION PRIVILEGE MANAGEMENT

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation of U.S. patent application Ser. No. 16/901,204, filed on Jun. 15, 2020, which is a continuation of U.S. patent application Ser. No. 16/198,838, filed on Nov. 22, 2018 (now U.S. Pat. No. 10,686,842), which is a continuation of U.S. patent application Ser. No. 15/395,839, filed on Dec. 30, 2016 (now U.S. Pat. No. 10,462,189), which is a continuation of U.S. patent application Ser. No. 14/698,137, filed on Apr. 28, 2015 (now U.S. Pat. No. 9,537,896), which is a continuation of U.S. patent application Ser. No. 13/719,388, filed on Dec. 19, 2012 (now U.S. Pat. No. 9,059,891), which is a continuation of U.S. patent application Ser. No. 11/189,113, filed Jul. 26, 2005 (now U.S. Pat. No. 8,365,240), which claims priority to and the benefit of U.S. provisional patent application Ser. No. 60/672,084, filed Apr. 18, 2005, the content of all of these documents being incorporated herein by reference in their entirety.

TECHNICAL FIELD

[0002] These embodiments relate to the field of wireless device application management.

BACKGROUND

[0003] The current methods used to control application configuration and privileges (AC&P) (also referred to as policies) are single dimensional application configuration schemes.

[0004] More precisely, either an application configuration and privilege is hard-coded in a given application, through some more flexible configuration process on a per-application basis, or the application configuration and privilege is applied to the whole wireless device itself.

[0005] The latter implementation lacks flexibility as all applications share, in such case, the same application configuration and privilege which is a drawback. The skilled addressee will appreciate that depending on the user of a device, it might be desirable to have a given application configuration and privilege for a first given application while for another given application it might be desirable to have another application configuration and privilege.

[0006] Furthermore it will be appreciated that in the case where the user device is a wireless user device it is very difficult to control the implementation of the policies for a given user device especially in the case where a large number of user device have to be configured or controlled.

[0007] Also, it will be appreciated that a lot of memory is wasted in the case where the policy is hard-coded for each application running on the user device. Furthermore, in such case, it is not possible to control or amend the policy for the application over time which is a major drawback in the case where a user requires more rights.

[0008] There is a need for a method that will overcome at least one of the above-mentioned drawbacks.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] Further features and advantages of the embodiments will become apparent from the following detailed description, taken in combination with the appended drawings, in which:

[0010] FIG. **1**. is a block diagram which shows a plurality of wireless user devices in which the embodiments may be implemented;

[0011] FIG. **2** is a block diagram which shows an embodiment of a user device in which the method for providing a wireless privilege management may be advantageously used; the user device comprises, inter alia, an application administration policy database and a client administration policy database;

[0012] FIG. **3** is a flowchart which shows how a policy is provided to a user device according to one embodiment;

[0013] FIG. **4** is a flowchart which shows how a policy is generated according to an embodiment; according to first step, a client administration policy is created and according to a second step an application administration policy is created;

[0014] FIG. **5** is a flowchart which shows how the application administration policy is created according to an embodiment;

[0015] FIG. **6** is a flowchart which shows how a generated policy is provided to the at least one user device; according to a first step the generated policy is transmitted to the at least one user device while according to a second step the transmitted policy is installed in the user device; and

[0016] FIG. **7** is a flowchart which shows how the transmitted policy is installed in the user device.

[0017] It will be noted that throughout the appended drawings, like features are identified by like reference numerals.

DETAILED DESCRIPTION

[0018] According to a broad aspect of the embodiments, there is provided a method for providing an administration policy to a user device comprising a plurality of applications, the method comprising centrally generating said administration policy to be implemented in the user device, the administration policy comprising at least one of an application administration policy to be used by at least one of the plurality of applications and a client administration policy for said user device; and providing the generated policy to said user device.

[0019] According to another broad aspect of the embodiments, there is provided a method for implementing an administration policy in a wireless user device comprising a plurality of applications, the method comprising receiving, from a central location, said administration policy to be implemented in the wireless user device, the administration policy comprising at least one of an application administration policy to be used by at least one of the plurality of applications and a client administration policy for said user device; and installing the received policy in the wireless user device.

[0020] According to yet another broad aspect of the embodiments, there is provided an application gateway adapted to enable remote administration of one or more managed server units of a data network using a user device of a wireless network, the application gateway comprising: means for managing a provisioning of an administration