

SUMMARY OF THE INVENTION

[0006a] According to a first aspect of the present invention, there is provided a computer-implemented method for remotely modifying behavior of code for a controller-based device, including: receiving a modified profile from a user device at a code virtualization server, the modified profile being a modification of a profile associated with a code for the controller-based device, the code for the controller-based device comprising a first code for execution on the controller-based device and a second code for execution on the code virtualization server, the first code comprising a remote call from the controller-based device to the code virtualization server, the remote call configured to cause execution of the second code on the code virtualization server, the profile comprising at least one parameter for being used to execute the second code, and where the controller-based device is remote to the user device and the code virtualization server; updating the profile with the modified profile on the code virtualization server; and executing the second code on the code virtualization server using the updated profile upon receiving the remote call at the code virtualization server from the controller-based device, the execution of the second code using the updated profile causing a modification of the behavior of the code for the controller-based device.

[0006b] According to a second aspect of the present invention, there is provided an apparatus for remotely modifying behavior of code for a controller-based device, the apparatus comprising a code virtualization server including: a processor; and a memory comprising executable instructions, which when executed using the processor, cause execution of a method comprising: receiving a modified profile from a user device at the code virtualization server, the modified profile being a modification of a profile associated with a code for the controller-based device, the code for the controller-based device comprising a first code for execution on the controller-based device and a second code for execution on the code virtualization server, the first code comprising a remote call from the controller-based device to the code virtualization server, the remote call configured to cause execution of the second code on the code virtualization server, the profile comprising at least one parameter for being used to execute the second code, and where the controller-based device is remote to the user device and the code virtualization server updating the profile with the modified profile on the code virtualization server, and executing

the second code on the code virtualization server using the updated profile upon receiving the remote call at the code virtualization server from the controller-based device, the execution of the second code using the updated profile causing a modification of the behavior of the code for the controller-based device.

[0007] Embodiments of the present invention generally relate to a method and apparatus for remotely modifying behavior of code for a controller-based device, substantially as shown in and/or described in connection with at least one of the figures, as set forth more completely in the claims.

[0008] These and other features and advantages of the present disclosure may be appreciated from a review of the following detailed description of the present disclosure, along with the accompanying figures in which like reference numerals refer to like parts throughout.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] So that the manner in which the above-recited features of the present invention can be understood in detail, a more particular description of the invention, briefly summarized above, may be had by reference to embodiments, some of which are illustrated in the appended drawings. It is to be noted, however, that the appended drawings illustrate only typical embodiments of this invention and are therefore not to be considered limiting of its scope, for the invention may admit to other equally effective embodiments.

[0010] Figure 1 is a block diagram of a system 100 for modifying code behavior remotely, in accordance with an embodiment of the present invention;

[0011] Figure 2 is flow diagram of a method for modifying behavior of code for a controller-based device by changing a profile associated with a process as executed by the code virtualization server of Figure 1, in accordance with an embodiment of the invention;

[0012] Figure 3 is a flow diagram of a method 300 executed by various devices of the apparatus 100 of Figure 1, for modifying behavior of code for execution with a controller-based device, in accordance with an embodiment of the invention; and

CLAIMS:

1. A computer-implemented method for remotely modifying behavior of code for a controller-based device, comprising:

receiving a modified profile from a user device at a code virtualization server, the modified profile being a modification of a profile associated with a code for the controller-based device,

the code for the controller-based device comprising a first code for execution on the controller-based device and a second code for execution on the code virtualization server,

the first code comprising a remote call from the controller-based device to the code virtualization server, the remote call configured to cause execution of the second code on the code virtualization server,

the profile comprising at least one parameter for being used to execute the second code, and

where the controller-based device is remote to the user device and the code virtualization server;

updating the profile with the modified profile on the code virtualization server; and

executing the second code on the code virtualization server using the updated profile upon receiving the remote call at the code virtualization server from the controller-based device, the execution of the second code using the updated profile causing a modification of the behavior of the code for the controller-based device.

2. The method of claim 1, wherein the updating comprises modifying the at least one parameter of the profile according to a corresponding parameter of the modified profile.

3. The method of claim 1, further comprising:

sending a list of a plurality of controller-based devices from the code virtualization server to a user device, the list for display on the user device; and

receiving, from the user device, a selection of the controller-based device from the plurality of controller-based devices for modifying behavior of the code for the controller-based device.

4. The method of claim 3, further comprising:

retrieving the profile for being updated using the modified profile; and

sending the profile to the user device for display.

5. The method of claim 4, wherein the list is sent for display at a graphical user interface (GUI) of the user device, the selection is received via the GUI, and the modified profile is received via the GUI.
6. The method of claim 1, further comprising storing the profile after being updated using the modified profile.
7. The method of claim 1, wherein the execution of the second code initiates provisioning of at least one remote service using the profile, the remote service being provisioned on devices remote to the controller-based device, the user device and the code virtualization server.
8. The method of claim 7, further comprising sending data related to the provisioning of the at least one remote service, after the provisioning of the at least one remote service, to at least one of the user device or the controller-based device.
9. An apparatus for remotely modifying behavior of code for a controller-based device, the apparatus comprising a code virtualization server comprising:
 - a processor; and
 - a memory comprising executable instructions, which when executed using the processor, cause execution of a method comprising:
 - receiving a modified profile from a user device at the code virtualization server, the modified profile being a modification of a profile associated with a code for the controller-based device,
 - the code for the controller-based device comprising a first code for execution on the controller-based device and a second code for execution on the code virtualization server,
 - the first code comprising a remote call from the controller-based device to the code virtualization server, the remote call configured to cause execution of the second code on the code virtualization server,
 - the profile comprising at least one parameter for being used to execute the second code, and
 - where the controller-based device is remote to the user device and the code virtualization server
 - updating the profile with the modified profile on the code virtualization server, and

executing the second code on the code virtualization server using the updated profile upon receiving the remote call at the code virtualization server from the controller-based device, the execution of the second code using the updated profile causing a modification of the behavior of the code for the controller-based device.

10. The apparatus of claim 9, further comprising an index cross-referencing the controller-based device with at least one profile including the profile, wherein the updating comprises modifying the at least one parameter of the profile according to a corresponding parameter of the modified profile.

11. The apparatus of claim 9, wherein the method further comprises:

sending a list of a plurality of controller-based devices from the code virtualization server to a user device for display on the user device;

receiving, from the user device, a selection of the controller-based device from the plurality of controller-based devices for modifying behavior of the code for with the controller-based device;

retrieving the profile for being updated using the modified profile; and

sending the profile to the user device for display,

wherein the list is sent for display at a graphical user interface (GUI) of the user device, the selection is received via the GUI, and the modified profile is received via the GUI.

12. The apparatus of claim 9, wherein the method further comprises storing the profile after being updated using the modified profile.

13. The apparatus of claim 9, wherein the execution of the second code initiates provisioning of at least one remote service using the profile, the remote service being provisioned on devices remote to the controller-based device, the user device and the code virtualization server.

14. The apparatus of claim 13, wherein the method further comprises sending data related to the provisioning of the at least one remote service, after the provisioning of the at least one remote service, to at least one of the user device or the controller-based device.