CLAIMS:

1. An integration system for enabling communication between service providers and end-devices, the integration device comprising:

at least one memory for storing data about end-devices;

an interface for receiving communications from service providers intended for a plurality of end-devices and retransmitting the communication to the plurality of end-devices;

wherein the plurality of end-devices are configured to communicate with two or more different service providers and the integration system is configured to translate the incoming communication from the service provider to the protocol corresponding to the end-device.

2. The integration system of claim 1, further comprising a common interface for receiving communications from service providers using a common protocol.

3. The integration system of one or more of the preceding claims, further comprising a processor for implementing access management protocols across a plurality of service providers.

4. The integration system of claim 3, wherein the access management protocols comprise security protocols.

5. The integration system of claim 4, wherein the security protocols comprise at least one of authentication, service provider rights and roles, end-device data, or service provider data.

6. The integration system of one or more of the preceding claims, further comprising an application kiosk for storing applications for distribution to the end-devices.

7. The integration system of one or more of the preceding claims, wherein the service providers desire to communicate with the end-devices to provide applications to the end-devices.

8. The integration system of one or more of the preceding claims, wherein the service providers desire to communicate with the end-devices to query the end-devices.

9. The integration system of one or more of the preceding claims, wherein the service providers desire to request the protocol corresponding to the end device from the integration system.

10. The integration system of one or more of the proceeding claims, wherein end-device manufacturers are given rights to update firmware on the end-devices and provide applications and the remaining service providers desire to request their available commands for respective devices

11. The integration system of one or more of the preceding claims, wherein the integration device is further configured to translate communications from the end-devices into a protocol corresponding to the service provider.

12. The integration system of any of the preceding claims, wherein the end-devices comprise at least one of customer premise utility devices, mobile devices, hand-held devices, and/or mounted tracking devices or sensors.

13. The integration system of one or more of the preceding claims, wherein the service providers comprise at least one of end-device manufactures, utility companies, and/or third party service providers.

14. The integration system of claim 13, wherein the manufacturers are given rights to update firmware on the end-devices and provide applications and the remaining service providers are given rights to query the end devices.

15. The integration system of claim 13, wherein the manufacturers are given rights to update firmware on the end-devices and provide applications and the remaining service providers desire to request the protocol corresponding to the end device from the integration system.

16. The integration system of one or more of the preceding claims, wherein there are at least 100 end-devices using at least 3 different communication protocols.

17. The integration system of one or more of the preceding claims, wherein there are at least 10,000 end-devices using at least 5 different communication protocols.

18. The integration system of one or more of the preceding claims, wherein there are at least 100,000 end-devices using at least 10 different communication protocols.

19. A method for communicating with a plurality of end-devices the method comprising:

receiving a communication from a service provider;

identifying which plurality of end-devices the communication was intended for;

determining which of two or more communication protocols the plurality of end-devices use;

translating the received communication into the plurality of different communication protocols;

retransmitting the communication to the identified plurality of end-devices.

20. The method of claim 19, wherein the communications from the service providers are received using a common protocol.

21. The method of one or more of the preceding claims, further comprising implementing access management protocols across a plurality of service providers.

22. The method of claim 21, wherein the access management protocols comprise security protocols.

23. The method of claim 22, wherein the security protocols comprise at least one of authentication, service provider rights and roles, end-device data, or service provider data.

24. The method of one or more of the preceding claims, further comprising storing applications for distribution to the end-devices.

25. The method of one or more of the preceding claims, wherein the service providers desire to communicate with the end-devices to provide applications to the end-devices.

26. The method of one or more of the preceding claims, wherein the service providers desire to communicate with the end-devices to query the end-devices.

27. The method of one or more of the preceding claims, wherein the service providers desire to request the protocol corresponding to the end device from the integration system.

28. The method of one or more of the preceding claims, further comprising translating communications from the end-devices into a protocol corresponding to the service provider.

29. The method of one or more of the preceding claims, wherein the end-devices comprise at least one of customer premise utility devices, mobile devices, hand-held devices, and/or mounted tracking devices.

30. The method of one or more of the preceding claims, wherein the service providers comprise at least one of end-device manufactures, utility companies, and/or third party service providers.

31. The method of claim 30, wherein the manufactures are given rights to update firmware on the end-devices and provide applications and the remaining service providers are given rights to query the end devices.

32. The method of claim 30, wherein the manufacturers are given rights to update firmware on the end-devices and provide applications and the remaining service providers desire to request the protocol corresponding to the end device from the integration system.

33. The method of claim 30, wherein the manufacturers are given rights to update firmware on the end-devices and provide applications and the remaining service providers desire to request their available commands for respective devices.

34. The method of one or more of the preceding claims, wherein there are at least 100 end-devices using at least 3 different communication protocols.

35. The method of one or more of the preceding claims, wherein there are at least 10,000 end-devices using at least 5 different communication protocols.

36. The method of one or more of the preceding claims, wherein there are at least 100,000 end-devices using at least 10 different communication protocols.

37. An integration system for enabling communication between service providers and end-devices, the integration system comprising:

a database maintaining data on end-devices;

an application kiosk storing application files for the end-devices, the application files comprising:

(i) a profile for an application representing functional capabilities of the respective application and comprising available commands for respective devices; and

(ii) a policy including configuration data for a deployment environment;

a user interface enabling access to the system by users; and

a services interface for uploading applications to the application kiosk, deploying applications from the application kiosk to a plurality of end-devices based on user requests and the respective application policies, and communicating with the deployed applications using commands defined in the respective application profiles of the applications.

38. The integration system as claimed in claim 37, wherein the end-devices comprise at least one of customer premise devices, mobile devices, hand-held devices, and/or mounted tracking devices such as trucks and plant or shipping equipment or logistics or security or sensors.

39. The integration system as claimed in claim 37, further comprising security management services for managing authentication and access to the integration system.

40. The integration system as claimed in claim 35, wherein the services interface is a web services interface.

41. An integration system for enabling communication between service providers and end-devices including components for selecting and deploying different applications to a plurality of end-devices over a plurality of different infrastructure provider networks.

42. The integration system as claimed in claim 41, including a user interface for remotely selecting applications and causing installation on remote end devices of different infrastructure provider networks.

43. An integration system for enabling communication between service providers and end-devices, comprising:

an application kiosk storing applications to be run on customer devices, the applications comprising one or more of the following:

(i) application code

(ii) a profile representing available commands for the application when run on different respective customer devices; and

(iii) firmware code

(iv) configuration data for a deploying the application on different respective customer devices and in different environments; and

a web services interface for:

(i) uploading applications to the application kiosk,

(ii) deploying applications from the application kiosk to end-devices based on user requests, the configuration data and the code of the applications, and

(iii) communicating with the deployed applications using commands defined in the respective profiles of the applications; and

a transformation component for processing messages received from customers and generating commands from the messages using the profiles to control the devices.

44. The integration system as claimed in claim 43, wherein the transformation component executes transformation rules of said profiles to generate the commands.

45. The integration system as claimed in claim 44, wherein the transformation component executes the transformation rules of said profiles to convert data from the end-devices, by the web services interface, into messages for generating displays for users.

46. An integration system, including:

a device and customer database maintaining data on customer devices at customers premises;

an application kiosk storing application files for customer devices, the files including:

(i) a profile for each application representing functional capabilities of the respective application and including available commands for respective devices; and

(ii) a policy including configuration data for a deployment environment;

security management services for managing authentication and access to the integration system;

a user interface enabling authenticated access to the system by users; and

a web services interface for uploading applications to the application kiosk, deploying applications from the application kiosk to devices based on user requests and the respective application policy, and communicating with the deployed applications using commands defined in the respective application profiles of the applications.

47. An integration system including components for selecting and deploying different applications to customer equipment devices over different infrastructure provider networks.

48. An integration system as claimed in claim 47, including a user interface for remotely selecting applications and causing installation on remote end devices of different infrastructure provider networks.

49. An integration system, including:

an application kiosk storing application bundles for applications to be run on customer devices, the bundles each including:

(i) a profile representing available commands for the application when run on different respective customer devices; and

(ii) configuration data for a deploying the application on different respective customer devices and in different environments; and

a web services interface for uploading application bundles to the application kiosk, deploying applications from the application kiosk to devices based on user requests and using the configuration data and code of the applications, and communicating with the deployed applications using commands defined in the respective profiles of the applications; and

a transformation component for processing messages received from user equipment and generating commands from the messages using the profiles to control the devices.

50. An integration system as claimed in claim 49, wherein the transformation component executes transformation rules of said profiles to generate the commands.

51. An integration system as claimed in claim 50, wherein the transformation component executes the transformation rules of said profiles to converts data from the devices, by the web services interface, into messages for generating displays for users.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. An integration system for enabling communication between at least one service provider and end-devices, the integration system comprising:

a database maintaining data on end-devices;

an application kiosk storing application files for the end-devices, the application files comprising:

(i) a profile for an application representing functional capabilities of the respective application and comprising available commands for respective devices; and

(ii) a policy including configuration data for a deployment environment;

a user interface enabling access to the system by users; and

a services interface for uploading applications to the application kiosk, deploying applications from the application kiosk to a plurality of end-devices based on user requests and the respective application policies, and communicating with the deployed applications using commands defined in the respective application profiles of the applications.

2. An integration system as claimed in claim 1, wherein the end-devices comprise at least one of customer premise devices, mobile devices, hand-held devices, and/or mounted tracking devices such as trucks and plant or shipping equipment or logistics or security or sensors.

3. The integration system as claimed in claim 1, further comprising security management services for managing authentication and access to the integration system.

4. The integration system as claimed in claim 1, 2 or 3, wherein the services interface is a web services interface.

5. An integration system as claimed in claims 1, 2, 3 or 4, wherein the applications are deployed to the end-devices over a plurality of different infrastructure provider networks.

6. An integration system as claimed in claim 5, wherein said user interface is configured for remotely selecting the applications and causing installation on remote end devices of different infrastructure provider networks.

7. An integration system as claimed in claim 1, wherein the application files comprise application code, the services interface is a web services interface and the integration system includes a transformation component for processing messages received from customers and generating commands from the messages using the profiles to control the devices.

8. The integration system as claimed in claim 7, wherein the transformation component executes transformation rules of said profiles to generate the commands.

9. The integration system as claimed in claim 8, wherein the transformation component executes the transformation rules of said profiles to convert data from the end-devices, by the web services interface, into messages for generating displays for users.

10. An integration system as claimed in claim 1, wherein the database maintains data on customer devices at customers premises; and the integration system includes security management services for managing authentication and access to the integration system by said users.

11. An integration system as claimed in claim 10, including components for selecting and deploying different applications to customer equipment devices over different infrastructure provider networks.

12. An integration system as claimed in claim 11, wherein said user interface is configured for remotely selecting applications and causing installation on remote end devices of different infrastructure provider networks.

13. An integration system as claimed in claim 12, including a transformation component for processing messages received from user equipment and generating commands

from the messages using the profiles to control the devices.

14. An integration system as claimed in claim 13, wherein the transformation component executes transformation rules of said profiles to generate the commands.

15. An integration system as claimed in claim 14, wherein the transformation component executes the transformation rules of said profiles to convert data from the devices, by the web services interface, into messages for generating displays for users.