What is claimed is:

1. A system for electronic patient care, the system comprising:

a hub configured to monitor a patient-care device, the hub comprising:

an operating system component configured to access at least one of a hardware resource of the hub and a software resource of the hub; and

a sandbox component configured to control the access to the at least one of the hardware resource and the software resource;

wherein the hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device, and wherein the hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component.

2. The system according to claim 1, wherein the hub is further configured to control the patient-care device.

3. The system according to claim 1, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

4. The system according to claim 1, wherein the hub is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

5. The system according to claim 1, wherein the hub is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

6. The system according to claim 1, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

7. The system according to claim 1, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

8. A system for electronic patient care, the system comprising:

a hub configured to monitor a patient-care device, the hub comprising:

a sandbox component configured to control access to at least one of a hardware resource and a software resource;

wherein the hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device, and wherein the hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component.

9. The system according to claim 8, wherein the hub is further configured to control the patient-care device.

10. The system according to claim 8, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

11. The system according to claim 8, wherein the hub is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

12. The system according to claim 8, wherein the hub is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

13. The system according to claim 8, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

14. The system according to claim 8, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

15. A system for electronic patient care, the system comprising:

a monitoring client configured to monitor a patient-care device, the monitoring client comprising:

an operating system component configured to access at least one of a hardware resource of the monitoring client and a software resource of the monitoring client; and

a sandbox component configured to control the access to the at least one of a hardware resource and the software resource;

wherein the monitoring client is further configured to identify the patient-care device and execute an application to monitor the patient-care device, and wherein the monitoring client executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component.

16. The system according to claim 15, wherein the monitoring client is further configured to control the patient-care device.

17. The system according to claim 15, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

18. The system according to claim 15, wherein the monitoring client is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

19. The system according to claim 15, wherein the monitoring client is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

20. The system according to claim 15, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

21. The system according to claim 15, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

22. A system for electronic patient care, the system comprising:

a monitoring client configured to monitor a patient-care device, the monitoring comprising:

a sandbox component configured to control access to at least one of a hardware resource and a software resource;

wherein the monitoring client is further configured to identify the patient-care device and execute an application to monitor the patient-care device, and wherein the monitoring client executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component.

23. The system according to claim 22, wherein the monitoring client is further configured to control the patient-care device.

24. The system according to claim 22, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

25. The system according to claim 22, wherein the monitoring client is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

26. The system according to claim 22, wherein the monitoring client is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

27. The system according to claim 22, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

28. The system according to claim 22, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

29. A system for electronic patient-care, comprising:

a hub configured to communicate with electronic medical records; and

a patient-care device;

wherein the hub is configured to identify a patient and the patient-care device, and wherein the hub is configured to download at least one treatment parameter from the electronic medical records and program the patient-care device with the at least one treatment parameter.

30. The system according to claim 29, wherein the hub identifies the patient in accordance with at least one of reading an RFID tag using an RFID interrogator, a voice using voice recognition software coupled using a microphone, a face using face-recognition software coupled to a camera, a biometric parameter of biometric read, an identification, a barcode read by a barcode reader.

31. A system for electronic patient-care, comprising:

a monitoring client configured to communicate with electronic medical records; and

a patient-care device;

wherein the monitoring client is configured to identify a patient and the patient-care device, and wherein the monitoring client is configured to download at least one treatment parameter from the electronic medical records and program the patient-care device with the at least one treatment parameter.

32. The system according to claim 31, wherein the monitoring client identifies the patient in accordance with at least one of reading an RFID tag using an RFID interrogator, a voice using voice recognition software coupled using a microphone, a face using face-recognition software coupled to a camera, a

biometric parameter of biometric read, an identification, a barcode read by a barcode reader.

33. The system according to any preceding claim, wherein the sandbox component is configured to prioritize access to the at least one of the hardware resource and the software resource.

34. The system according to claim 11, wherein, if multiple applications request access to an alarm device or variable that indicates an alarm condition, the sandbox component is configured to prioritize the sources of the requests and generate a prioritized list of alarm causes.

What is claimed is:

1. A system for electronic patient care, the system comprising:

a hub configured to monitor a patient-care device, the hub comprising:

an operating system component configured to access at least one of a hardware resource of the hub and a software resource of the hub; and

a sandbox component configured to control the access to the at least one of the hardware resource and the software resource;

wherein:

the hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device,

the hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component, and

the sandbox component is configured to prioritize access to the at least one of the hardware resource and the software resource.

2. The system according to claim 1, wherein the hub is further configured to control the patient-care device.

3. The system according to claim 1, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion

pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

4. The system according to claim 1, wherein the hub is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

5. The system according to claim 1, wherein the hub is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

6. The system according to claim 1, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

7. The system according to claim 1, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

8. A system for electronic patient care, the system comprising:

a hub configured to monitor a patient-care device, the hub comprising:

a sandbox component configured to control access to at least one of a hardware resource and a software resource;

wherein:

the hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device,

the hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component, and

the sandbox component is configured to prioritize access to the at least one of the hardware resource and the software resource.

9. The system according to claim 8, wherein the hub is further configured to control the patient-care device.

10. The system according to claim 8, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

11. The system according to claim 8, wherein the hub is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

12. The system according to claim 8, wherein the hub is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

13. The system according to claim 8, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

14. The system according to claim 8, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

15. A system for electronic patient care, the system comprising:

a monitoring client configured to monitor a patient-care device, the monitoring client comprising:

an operating system component configured to access at least one of a hardware resource of the monitoring client and a software resource of the monitoring client; and

a sandbox component configured to control the access to the at least one of a hardware resource and the software resource;

wherein:

the monitoring client is further configured to identify the patient-care device and execute an application to monitor the patient-care device, the monitoring client executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component, and

the sandbox component is configured to prioritize access to the at least one of the hardware resource and the software resource.

16. The system according to claim 15, wherein the monitoring client is further configured to control the patient-care device.

17. The system according to claim 15, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

18. The system according to claim 15, wherein the monitoring client is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

19. The system according to claim 15, wherein the monitoring client is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

20. The system according to claim 15, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

21. The system according to claim 15, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

22. A system for electronic patient care, the system comprising:

a monitoring client configured to monitor a patient-care device, the monitoring comprising:

a sandbox component configured to control access to at least one of a hardware resource and a software resource;

wherein:

the monitoring client is further configured to identify the patient-care device and execute an application to monitor the patient-care device,the monitoring client executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component, and

the sandbox component is configured to prioritize access to the at least one of the hardware resource and the software resource.

23. The system according to claim 22, wherein the monitoring client is further configured to control the patient-care device.

24. The system according to claim 22, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion

pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

25. The system according to claim 22, wherein the monitoring client is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification.

26. The system according to claim 22, wherein the monitoring client is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

27. The system according to claim 22, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

28. The system according to claim 22, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.

29. A system for electronic patient-care, comprising:

a hub configured to communicate with electronic medical records; and

a patient-care device;

wherein:

the hub is configured to identify a patient and the patient-care device,

the hub is configured to download at least one treatment parameter from the electronic medical records and program the patient-care device with the at least one treatment parameter, and

a sandbox component is configured to prioritize access to at least one of a hardware resource and a software resource.

30. The system according to claim 29, wherein the hub identifies the patient in accordance with at least one of reading an RFID tag using an RFID interrogator, a voice using voice recognition software coupled using a microphone, a face using face-recognition software coupled to a camera, a biometric parameter of biometric read, an identification, a barcode read by a barcode reader.

31. A system for electronic patient-care, comprising:

a monitoring client configured to communicate with electronic medical records; and

a patient-care device;

wherein:

the monitoring client is configured to identify a patient and the patient-care device,

the monitoring client is configured to download at least one treatment parameter from the electronic medical records and program the patient-care device with the at least one treatment parameter, and

a sandbox component is configured to prioritize access to at least one of a hardware resource and a software resource.

32. The system according to claim 31, wherein the monitoring client identifies the patient in accordance with at least one of reading an RFID tag using an RFID interrogator, a voice using voice recognition software coupled using a microphone, a face using face-recognition software coupled to a camera, a biometric parameter of biometric read, an identification, a barcode read by a barcode reader.

33. A system for electronic patient care, the system comprising:

a hub configured to monitor a patient-care device, the hub comprising:

a sandbox component configured to control access to at least one of a hardware resource and a software resource;

wherein:

the hub is further configured to identify the patient-care device and execute an application to monitor the patient-care device,

the hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component,

the hub is further configured to receive an identification from the patient-care device and download the application from a server associated with the identification, and

if multiple applications request access to an alarm device or variable that indicates an alarm condition, the sandbox component is configured to prioritize the sources of the requests and generate a prioritized list of alarm causes.

34. The system according to claim 33, wherein the hub is further configured to control the patient-care device.

35. The system according to claim 33, wherein the patient-care device is selected from the group consisting of an infusion pump, a pill dispenser, a microinfusion pump, an ECG monitor, a blood pressure monitor, a pulse oximeter, and a CO2 capometer, an intravenous bag, and a drip-flow meter.

36. The system according to claim 33, wherein the hub is further configured to receive an identification from the patient-care device and update the application from a server associated with the identification.

37. The system according to claim 33, wherein the hardware resource is one of a disk drive, memory, a buzzard, a microphone, a speaker and a camera.

38. The system according to claim 33, wherein the software resource is one of a variable, a secure data object, a secure variable, a secured API, an API, and a software representation of a hardware component.