

What is claimed is:

1. A system for electronic patient care, the system comprising:
 - a hub configured to monitor a patient-care device of a plurality of patient care devices, the hub comprising:
 - a plurality of docking stations configured to receive the plurality of patient-care devices, wherein each respective patient-care device of the plurality of patient-care devices is dockable into a respective docking station of the plurality of docking stations;
 - 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
 - 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 buzzer, 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 of a plurality of patient care devices, the hub comprising:

a plurality of docking stations configured to receive the plurality of patient-care devices, wherein each respective patient-care device of the plurality of patient-care devices is dockable into a respective docking station of the plurality of docking stations;

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

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 buzzer, 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 hub configured to monitor a patient-care device of a plurality of patient care devices, the hub comprising a plurality of docking stations configured to receive the plurality of patient-care devices, wherein each respective patient-care device of the plurality of patient-care devices is dockable into a respective docking station of the plurality of docking stations;

a monitoring client configured to monitor the 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

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 buzzer, 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 hub configured to monitor a patient-care device of a plurality of patient care devices, the hub comprising a plurality of docking stations configured to receive the plurality of patient-care devices, wherein each respective patient-care device of the plurality of patient-care devices is dockable into a respective docking station of the plurality of docking stations;

a monitoring client configured to monitor the 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

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 buzzer, 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, the system comprising:

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

a plurality of docking stations configured to receive the plurality of patient-care devices, wherein each respective patient-care device of the plurality of patient-care devices is dockable into a respective docking station of the plurality of docking stations; and

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

30. The system according to claim 29, wherein the hub is further configured to control the patient-care device.

31. The system according to claim 29, 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.

32. The system according to claim 29, 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.

33. The system according to claim 29, wherein the hardware resource is one of a disk drive, memory, a buzzer, a microphone, a speaker and a camera.

34. The system according to claim 29, 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.