



Frequently Asked Questions About Change Healthcare Cardiology Hemo™

System Capabilities, Outputs, and Configurations

Our integrated monitoring system, Change Healthcare Cardiology Hemo™, aggregates hemodynamic data, waveforms, and images in one cardiac patient record, eliminating redundant data entry and improving care decisions.

Continuous vitals monitoring provides critical information during Cath procedures.

Q: What are the capabilities of the solution?

A: Change Healthcare Cardiology Hemo is an integrated hemodynamic monitoring system for monitoring vital signs and performing measurements and calculations. The system documents procedure and patient data, and interfaces with other systems and devices before, during, and after procedures.

The system provides comprehensive hemodynamic monitoring and recording for cardiology, cardiac catheterization, electrophysiology, radiology, and invasive radiology procedures.

Change Healthcare Cardiology Hemo also imports patient data from other hospital information systems and shares hemodynamic data in return. Change Healthcare

Cardiology Hemo seamlessly interfaces with hospital information systems as well as image management, archiving, and reporting systems via Change Healthcare Cardiology solution.

Q: What patient vitals data does the system monitor?

A: Change Healthcare Cardiology Hemo is intended for physiological/hemodynamic monitoring, as well as clinical data acquisition. Medical image and data processing, and analytical assessment is done via the Change Healthcare Cardiology solution.

Change Healthcare Cardiology Hemo provides patient monitoring via:

- ECG leads for ECG traces, heart rate, and respiration rate
- Invasive Blood Pressure using up to 4 simultaneous IBP channels, plus optional FFR measurement
- SpO2 finger clip for peripheral saturation and HR
- Non-invasive blood pressure (NIBP) cuff
- Body temperature probe

- Thermal Dilution Cardiac output temperature probe
- Capnograph and etCO2 for inspired CO2 and respiration rate

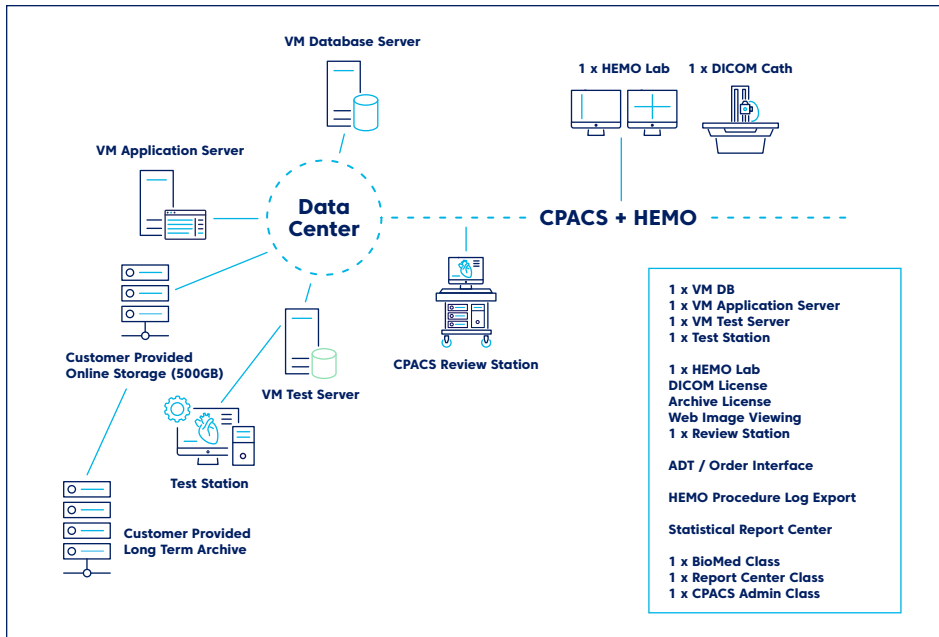
Q: What are the components of the system?

A: Change Healthcare Cardiology Hemo is composed of:

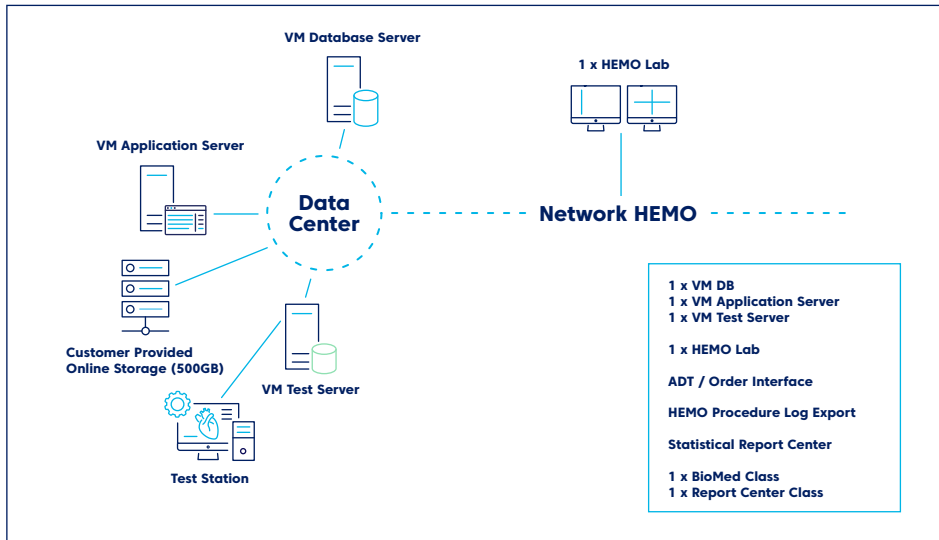
- **A control and documentation unit** that performs measurements, records full disclosure, and takes samples. Procedure notes are entered directly into this unit, and overall data input and management of the patient and procedure data is performed within this unit.
- **A clinical unit** incorporates the 'front-end' unit and the real-time monitor. The clinical unit acquires, analyzes, and displays patient vitals and other pertinent clinical data. The clinical data is subsequently displayed on monitors.

Q: How is the system setup and integrated?

A: Providers can use the Change Healthcare Cardiology Hemo system in one of three configurations.



Configuration 1. Hemo + Change Healthcare Cardiology CVIS (Cath and EP reports) + CPACS.



Configuration 2. Network Hemo + Change Healthcare Cardiology CPACS.



Configuration 3. Stand-Alone Hemo.

Configuration 1

This configuration provides a comprehensive solution enabling:

- Extensive interface (import and export) capabilities with the EMR, modalities, and various consumers (e.g., ADT, orders, lab results, allergies, medications, and reports)
- The sharing of patient and procedural data between multiple Hemo stations
- Monitoring and documenting invasive procedures via Change Healthcare Cardiology Hemo
- Storing, managing, and viewing images captured during the procedure via the different modalities, for example, by Cath and IVUS
- Producing physician reports

Configuration 2

This configuration provides a hemodynamic monitoring solution which enables:

- Extensive interface (import and export) capabilities with the EMR, modalities, and various consumers (e.g., ADT, orders, lab results, allergies, medications, procedure results, and reports)
- The sharing of patient and procedural data between multiple Hemo stations
- Monitoring and documenting invasive procedures via Change Healthcare Cardiology Hemo

Configuration 3

This configuration focuses solely on the hemodynamic monitoring solution, which enables a very limited interface and file export.

**Q: What is the cardiology procedure workflow using this system?****A:**

1. The technologist places a generic EP or Cath Lab CV order in the EMR scheduling system.
2. Change Healthcare Cardiology Hemo will refresh the worklist to display this order.
3. Cath, EP (and/or other modalities) will query the DICOM Worklist for ordered procedure.
4. Patient and procedure data is automatically enhanced with additional interfaced information, such as lab results and EMR data (*Configurations 1 and 2*).
5. The technologist will launch Change Healthcare Cardiology Hemo for the relevant procedure and begin monitoring and documenting the procedure.
6. Procedural data is populated to the physician report (*Configuration 1*).
7. The technologist will end the procedure on the Cath Lab modality (or any other modalities, such as ultrasound or intravascular ultrasound).
8. Procedure data from the modality will be stored to Change Healthcare Cardiology CPACS (*Configuration 1*).
9. The EP modality will send the XML file to Change Healthcare Cardiology CVIS (*Configuration 1*).
10. Charges and the documentation of used devices will be verified by the technologist in Change Healthcare Cardiology Hemo (*Configurations 1 and 2*).
11. The technologist will sign the Hemo procedure in Change Healthcare Cardiology Hemo and generate a PDF.
12. As all cardiovascular images are now accessible, the cardiologist/electrophysiologist will launch the physician report and viewer to view images and complete the report. Once signed, a structured report PDF is produced in Change Healthcare Cardiology (*Configuration 1*).
13. Additional interfaces are triggered to export procedural data to the EMR system in HL7 or XML format (*Configurations 1 and 2*).

About Change Healthcare

Change Healthcare is inspiring a better healthcare system. Working alongside our customers and partners, we leverage our software and analytics, network solutions and technology-enabled services to help them improve efficiency, reduce costs, increase cash flow, and more effectively manage complex workflows. Together, we are accelerating the journey toward improved lives and healthier communities.

