Centricity™ Cardio Workflow
Customizable workflows bring order to a complex care area

Overview

Centricity™ Cardio Workflow offers the framework for a comprehensive collection of tools serving as the central point for all data and information management in the cardiovascular department. It streamlines workflow, tracks inventory stock, creates clinical reports, and runs clinical and administrative queries.

Centricity Cardio Workflow bridges the gaps between cardiology service lines and healthcare information systems, across the multi-location continuum of cardiology care, supporting efficiency and accurate diagnoses. A modular architecture and licensing model allows Centricity Cardio Workflow to adapt to organizational needs.

Centricity Cardio Workflow features powerful workflow efficiency tools to help improve your patient throughput and optimize staff productivity. Whether your facility generates orders for your cardiology exams, uses an enterprise-wide scheduling system or uses a cardiology only scheduling system, Centricity Cardio Workflow offers multiple advanced interfaces and solutions that are flexible to help optimize your workflow.

Consolidate clinical and administrative tools with discrete, minable data, extensive diagrams, and certified, native national registry submission packages.
Serving the CV Enterprise across the entire continuum of care

Management modules

Scheduling
The Centricity Cardio Workflow Scheduling offers a comprehensive time/task management asset designed for clinical and administrative aspects of cardiology department workflow.

Charge Capture
The Cardio Workflow Charge Capture module provides the capability to assign procedure codes for each patient encounter while reporting on the outcome of the procedure at the point of care. Codes can be uploaded to accommodate new or modified code sets through the administrative component of the application.

Inventory Management
The Cardio Workflow Inventory Management module represents a comprehensive set of stock management tools designed to track-inventories of cardiology departments. It offers the ability to manage master supply lists, procedural inventory documentation and stock. It also includes a full order-deliver-invoice handing solution, with interfaces to health system-wide materials management systems.

Supply entry:
- Populate, characterize, and categorize supplies for streamlined management.
- Barcode scanner support to simplify inventory item documentation and management.
- Medical code or barcode search.
- Inventory association with vendor and supplier information.

Procedural inventory, cost summary, and stock:
- Documenting of supply used during procedures in combination with MacLab/CardioLab, invasive monitoring systems, and in non-invasive settings.
- Material package grouping.
- Barcode scanner support.

Stock management:
- Monitoring of stock level.
- Separation of stock location shelf count.
- Material addition and loss capturing.
- Expiration date monitoring.
- Scanning of lot no. and expiration date upon delivery.

Orders, deliveries, and invoices:
- Inventory order, delivery and invoice tracking.
- Automatic order generation of a pre-set stock volume per item.
- Manual order volume correction per item.
- Automatic matching of orders, deliveries, and quantities.
- Auto-generation of invoices with discounting and tax calculation for the gross billing amount.

Registry modules

Optional registry components
Optional Data Registry submission modules, without use of a 3rd party interface, certified directly by GE Healthcare keeps development aligned with registry requirements for the various regions, and helps ensure data consistency between monitoring devices, reporting solution, and registry data.

<table>
<thead>
<tr>
<th>Module</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVIS Cards ACS Reg.</td>
<td>Software enabled CVIS OPT CARDS ACS</td>
</tr>
<tr>
<td>CVIS Cards EP ICD Reg.</td>
<td>Software enabled CVIS OPT CARDS EP ICD</td>
</tr>
<tr>
<td>CVIS Cards EP PM Reg.</td>
<td>Software enabled CVIS OPT CARDS EP PM</td>
</tr>
<tr>
<td>CVIS Cards EP ABL Reg.</td>
<td>Software enabled CVIS OPT CARDS EP ABL</td>
</tr>
<tr>
<td>CVIS Cards PCI Reg.</td>
<td>Software enabled CVIS OPT CARDS PCI</td>
</tr>
<tr>
<td>CVIS CCAD NPDR/ICD Reg.</td>
<td>Software enabled CVIS OPT CARDS ACS</td>
</tr>
<tr>
<td>CVIS CCAD Paeds Reg.</td>
<td>Software enabled CVIS OPT CARDS EP ICD</td>
</tr>
<tr>
<td>CVIS CCAD Cardiac Surgery UK Reg. Module</td>
<td>Software enabled CVIS OPT CARDS EP PM</td>
</tr>
<tr>
<td>CVIS CCAD BCS Reg.</td>
<td>Software enabled CVIS OPT CARDS EP ABL</td>
</tr>
<tr>
<td>CVIS CCAD EPS Reg.</td>
<td>Software enabled CVIS CCAD EPS Registry</td>
</tr>
<tr>
<td>CVIS CCAD MINAP Reg.</td>
<td>Software enabled CVIS OPT CARDS PCI</td>
</tr>
<tr>
<td>CVIS 3rd Party BQS Interface Module</td>
<td>Software enabled QS-Monitor Software enabled iPod One Software enabled QS-MED Site Interface</td>
</tr>
<tr>
<td>CVIS BQS PTA Reg.</td>
<td>Software enabled CVIS BQS PTA Registry</td>
</tr>
<tr>
<td>CVIS BQS PTA Reg. Module</td>
<td>Software enabled CVIS BQS PTA Registry</td>
</tr>
<tr>
<td>CVIS BQS PM / PCI Reg.</td>
<td>Software enabled CVIS BQS PM/PCI Registry</td>
</tr>
</tbody>
</table>

GE Healthcare certifies data registry submission software directly with ACC NCDR and Society of Thoracic Surgeons (STS) for the following registries:

- CVIS ACC NCDR CathPCI
- CVIS ACC NCDR ICD
- CVIS ACC NCDR ISF
- CVIS ACC NCDR AFib
- CVIS ACC NCDR ACS

“Enhanced charge capture and inventory billing by $100,000/month and reduced charge capture process time from 90 minutes to less than 2 minutes/case.”

Information provided by Oklahoma State University Medical Center (OSUMC), October and November 2014
Clinical reporting modules

Cath

The Cardio Workflow Cath module enables all clinical content and workflow features for catheterization lab procedures and acts as a hub of information related to the patient encounter. The Cath module provides tools for clinical data entry and procedural information related to the patient events. It also provides a graphic tool for representing patient coronary anatomy and image annotation that can be included in the final physician report. This module can be utilized with or without the integration of a hemodynamic recording system.

Cardiac Rhythm Management (CRM) Implant

The Cardio Workflow CRM Implant module provides a solution for the electrophysiology clinical space focused on device implants, tilt tables, and cardioversions, including clinical content, workflow features and reporting. This module can be utilized with or without the integration of an EP recording system.

Data can be imported over from the programmers of the following vendors:

• Biotronik
• Medtronik™
• Boston Scientific™
• St. Jude™

Cardiac Rhythm Management (CRM) Follow-up

Cardiac Rhythm Management Follow-up module is designed to document the follow-up visits of implantable devices, such as ICDs and Pacemakers also from Biotronik, Medtronik, Boston Scientific, and St. Jude.

EP Studies and Ablations

The Cardio Workflow EP Studies and Ablations module provides a solution for electrophysiology examinations focused on EP studies and ablation procedures, including clinical content, workflow features and reporting. The procedural documentation includes EP studies, Ablations and 3D Mapping. This module can be utilized with or without the integration of an EP recording system.

Invasive Peripheral Vascular Reporting (IPV)

The Invasive Peripheral Vascular (IPV) module provides tools for capturing clinical content, procedural documentation and reporting. The module offers a complete dataset to document and manage relevant data in the IPV clinical environment. A graphics package is also included in this module to assist with the presentation of a visual diagram and/or annotations to mark regions of interest. This module can be used with or without the integration of DCM devices and Hemodynamics recording systems.

Non-Invasive Peripheral Vascular Reporting (NIPV)

The Non-Invasive Peripheral Vascular (NIPV) module provides tools for capturing clinical content, procedural documentation and reporting. The module offers a complete dataset to document and manage relevant data in the NIPV clinical environment. A graphics package is also included in this module to assist with the presentation of a visual diagram and/or annotations to mark regions of interest. This module can be used with or without the integration of DCM devices and Hemodynamics recording systems.

Nuclear Medicine

The Cardio Workflow Nuclear Medicine™ module supports physicians, nurses and technicians in recording relevant data during radiology examinations in the Nuclear Medicine department. The Nuclear Medicine module allows capturing data related to stress test nuclear studies and Gated Blood Pool (MUGA) imaging as well as creating and submitting reports for these examinations.

Adult Echo

The Cardio Workflow Adult Echo module offers a complete exam management and reporting solution for procedural documentation and reporting of clinical content and workflow features for adult echocardiography. With its user friendly interface, the module assists each department in capturing clinically relevant data and allows the extraction of IAC™ relevant information. Reports can be routed for formal representation of the procedure. These modules can be utilized with or without the integration of ultrasound systems.

Stress EKG

The Stress EKG module enables storage and management of discrete stress EKG data. When integrated with GE Healthcare’s CASE™ stress system, this reporting module pre-populates with measurements from the CASE system.

Pediatric Echo

The Cardio Workflow Pediatric Echo module offers a complete exam management and reporting solution for procedural documentation and reporting of clinical content and workflow features for pediatric echocardiography. With its user friendly interface, the module assists each department in capturing clinically relevant data and allows the extraction of IAC relevant information. The module includes 2-scores that can be incorporated in the final reports, which can then be routed for formal representation of the procedure. This module can be utilized with or without the integration of ultrasound systems.

“Itable to finish some cath reports before the patient leaves the procedure room because the data pre-populates the report.”

Saratoga Hospital Webinar, October 2015

Technology specifications

Multi facility / organization support:

• Web-enabled deployment
• Centricity Universal Viewer and Centricity Cardio Imaging Solution Integration
• MS SQL Server 2008 R2 SP2 and 2012 SP1 Support
• Web access to reports
• Windows™ 10 support
• 1280 x 1024 resolution
• Hyper-V virtualization

Customers can access the following documents in GE’s Common Document Library at the following location: http://apps.gehealthcare.com/services/ClientServlet?REQ=Enter+Documentation+Library

Requirements

To support our customers the best possible way, GE Healthcare requires access to customer systems and servers to monitor and/or resolve reported issues. A connection by GE Healthcare via a Virtual Private Network (VPN) enables the GE Healthcare support organization to remotely connect to the system running Cardio Workflow. Such remote capability should be tested and approved prior to the system go-live for clinical use. If GE Healthcare cannot be granted access to the customer’s Cardio Workflow system to diagnose and resolve technical or configuration issues, an escalation process through management at customer’s site should be established to ensure GE Healthcare’s ability to provide timely support. In the event that a customer does not provide access or connectivity, services may be provided on a time and material basis (minimum 4 hours), including travel time, at then-current rates. GE Healthcare will not be responsible for any failure to perform its obligations under this service policy that results from customer’s refusal or inability to provide access.

In the event that a GE Healthcare support professional is required on-site, Internet access must be provided to connect to the GE Centricity support infrastructure.

Requirements

To support our customers the best possible way, GE Healthcare requires access to customer systems and servers to monitor and/or resolve reported issues. A connection by GE Healthcare via a Virtual Private Network (VPN) enables the GE Healthcare support organization to remotely connect to the system running Cardio Workflow. Such remote capability should be tested and approved prior to the system go-live for clinical use. If GE Healthcare cannot be granted access to the customer’s Cardio Workflow system to diagnose and resolve technical or configuration issues, an escalation process through management at customer’s site should be established to ensure GE Healthcare’s ability to provide timely support. In the event that a customer does not provide access or connectivity, services may be provided on a time and material basis (minimum 4 hours), including travel time, at then-current rates. GE Healthcare will not be responsible for any failure to perform its obligations under this service policy that results from customer’s refusal or inability to provide access.

In the event that a GE Healthcare support professional is required on-site, Internet access must be provided to connect to the GE Centricity support infrastructure.

Requirements

To support our customers the best possible way, GE Healthcare requires access to customer systems and servers to monitor and/or resolve reported issues. A connection by GE Healthcare via a Virtual Private Network (VPN) enables the GE Healthcare support organization to remotely connect to the system running Cardio Workflow. Such remote capability should be tested and approved prior to the system go-live for clinical use. If GE Healthcare cannot be granted access to the customer’s Cardio Workflow system to diagnose and resolve technical or configuration issues, an escalation process through management at customer’s site should be established to ensure GE Healthcare’s ability to provide timely support. In the event that a customer does not provide access or connectivity, services may be provided on a time and material basis (minimum 4 hours), including travel time, at then-current rates. GE Healthcare will not be responsible for any failure to perform its obligations under this service policy that results from customer’s refusal or inability to provide access.

In the event that a GE Healthcare support professional is required on-site, Internet access must be provided to connect to the GE Centricity support infrastructure.

Requirements
Disclaimer(s):
The results expressed in this document may not be applicable to a particular site or installation and individual results may vary. This document and its contents are provided to you for informational purposes only, and do not constitute a representation, warranty or performance guarantee. GE disclaims liability for any loss, which may arise from reliance on or use of information contained in this document.

The information in this document only applies to the most current Centricity™ Cardio Workflow software available at the time this document was released. Specifications in this document are subject to change without notice. Contact GE Healthcare for the most current revisions of this document.

• This document is intended for customer use and is available in English only.
• In case a customer requires a language other than English, the customer’s service provider is charged with the responsibility of having this manual translated at a qualified translation service, and the customer’s service provider will experience the cost for this service.
• Prior to changing / modifying the equipment the Service Manual has to be consulted and understood.
• Failure to heed this warning may result in injury to the patient because of improper functionality of the product.

©2016 General Electric Company.

General Electric Company reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. This does not constitute a representation or warranty or documentation regarding the product or service featured. All illustrations or examples are provided for informational or reference purposes and/or as fictional examples only. Your product features and configuration may be different than those shown.

Contact your GE Representative for the most current information.

Centricity and CASE are trademarks of the General Electric Company.

The IAC is a registered trademark of Intersocietal Accreditation Commission.

ACC NCDR® is a registered trademark of American College of Cardiology's National Cardiovascular Database Registry (NCDR).

All other third party trademarks are the property of their respective owners.

GE, the GE monogram and Centricity are trademarks of General Electric Company.

All third party trademarks are the property of their respective owners.

General Electric Company, by and through its GE Healthcare division.