

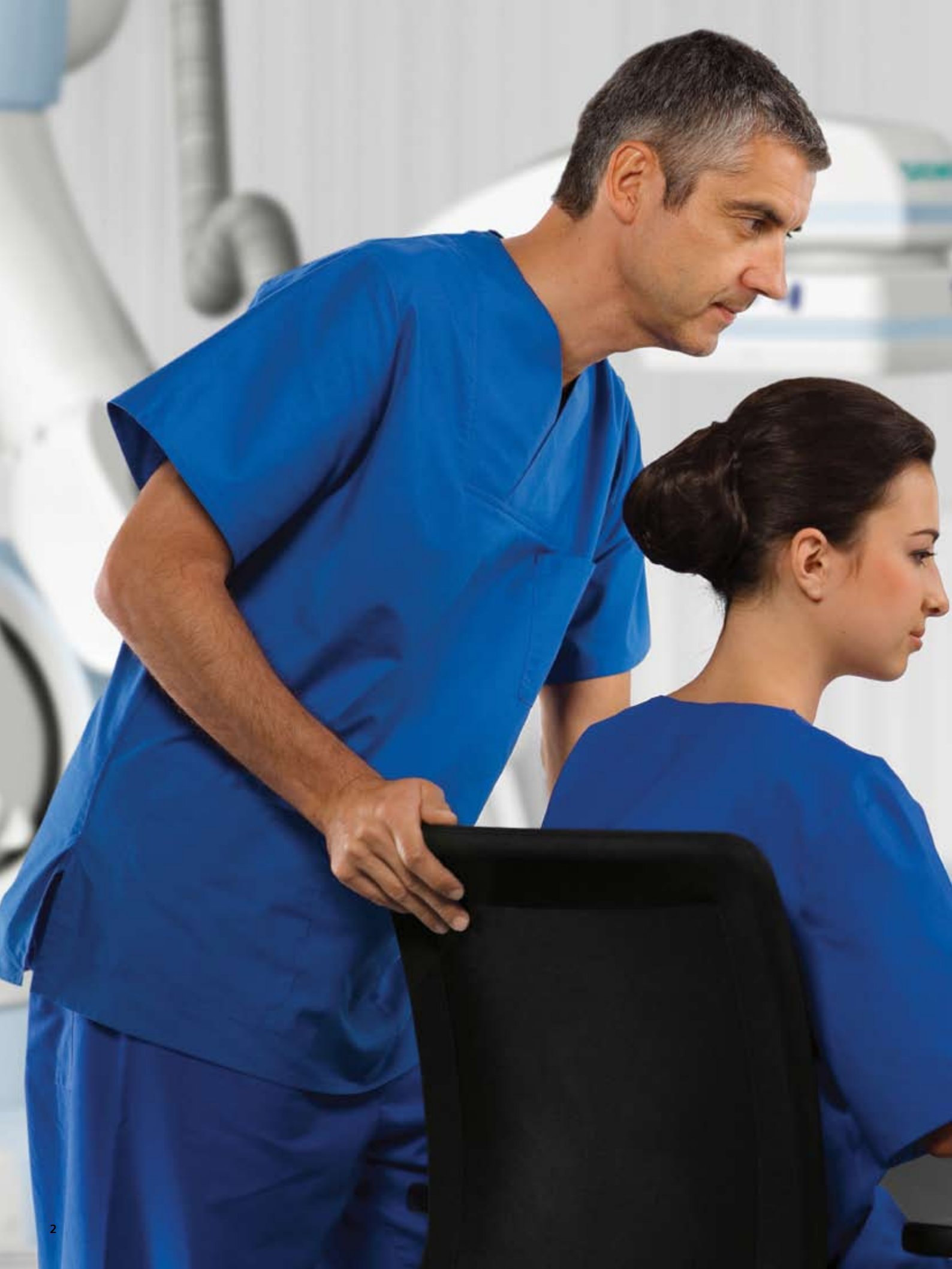


## *syngo*<sup>®</sup> Dynamics.

Making the all-digital cardiology department a practical reality.

[www.siemens.com/healthcare](http://www.siemens.com/healthcare)

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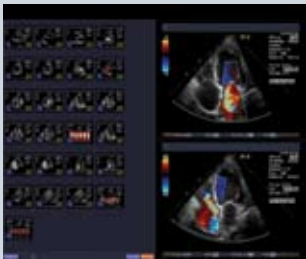


# Whatever you ask, whatever your task: *syngo* Suite provides the answers.

As part of the *syngo*® Suite, *syngo* Dynamics is a multimodality dynamic image review, archiving, and reporting system that draws on Siemens long history of expertise in cardiology. The system has been designed to improve the efficiency of clinical procedures through intuitive, evidence-based reporting. The ultimate goal is to provide caregivers and staff with fast, easy access to important patient data.

*syngo* Dynamics has made the all-digital cardiology department a practical reality. Based on experience gained worldwide from echocardiography, cardiac catheterization, nuclear medicine, and ultrasound departments, Siemens Cardiology IT systems combine ease of use with world-class security and visualization techniques to provide our customers with improved workflow efficiencies and help them provide optimal patient care.





syngo Dynamics manages all cardiology imaging needs from review to reporting, from distribution to storage.

## Image Management

- Echocardiography
  - syngo Ultrasound Workplace
  - Simultaneous clip review
- Cardiac catheterization and EP
  - Dose, Contrast, and Fluro time
  - Biplane sync
  - DICOM 3
  - Waveform, CARTO, ablation HPI, CTI
- Vascular imaging
- Historical comparisons
- Siemens best-practice integration
- AXIOM Artis interface
- Nuclear medicine
  - syngo MI Mobile
  - 4DMSPECT and Cedars
  - Cardiac CT
- Frame review
- Multi-frame reconstruction
- Patient-context sharing with syngo WebSpace for CT
- CR, DR, CT, and MR secondary review
- Servers sized to facility
- Third-party applications launch for postprocessing CT/MR



# Reporting

## **Echocardiography**

- Automatically populated data points
- Structured worksheets
- Enhanced graphical reporting
- Extensive measurement library
- Customizable calculations (including gender based)
- Specialized pediatric reporting applications

## **Cardiac catheterization and EP**

- Point-of-care documentation
- Coronary tree customizable graphics
  - Stent placement and type
  - Stenosis observations
- Capture select data from third-party hemo
- ACC registration support
- IHE ECG support
- QCA/LV
- Images embedded in reports, including CARTO maps

## **Vascular**

- Single-click macro diagnosis for common disease states
- Extensive measurement library
- DICOM SR Import

## **Nuclear medicine, CT, and MR**

- Specialist-designed structured worksheets
- User-selectable workflow with *syngo* MI Mobile



At the heart of *syngo* Dynamics lie comprehensive, easy-to-use reporting capabilities that bring world-class IT to your cardiology department.

## Your benefits at a glance:

- 17 Segment Wall Scoring
- Enhanced Thumbnail Review
- Ability to Carry Forward Prior Study Data
- Thousands of Measurements and Calculations
- Measurement Mapping DICOM SR



The convenient navigation and refined measurement tools draw upon Siemens longtime expertise in customer workflow requirements for Echocardiography.

## Enhanced Navigation and Measurement Tools for Echocardiography

The latest version of *syngo* Dynamics improves its already class-leading echo capabilities. The new 17 Segment Wall Scoring feature includes phraseology driven by wall-scoring calculations, wall-thickness analysis, and the creation of any number of named scoring schemes to accommodate customer needs.

The enhanced thumbnail review eases navigation through studies, making it possible to carry forward prior study data (depending upon software versions of prior studies), even from multiple modalities, which greatly speeds reporting.

*syngo* Dynamics continues to be the cardiac echo system of the most demanding departments for its extensive capabilities, flexibility, robustness, and ease of use.

## Your benefits at a glance:

- Interactive Coronary Tree Diagram
- Hemodynamic Data Import from GE MacLab
- Improved Evidence-Based Reporting
- Synchronized bi-plane XA Image Display
- CR and DR secondary image review

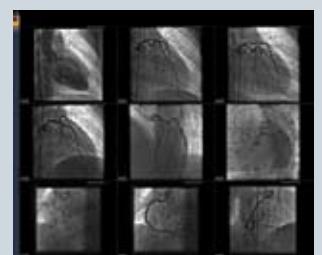
# Improving Evidence-Based Reporting for Cardiac Catheterization

*syngo* Dynamics contains a wide complement of cardiac catheterization image review and reporting tools. New in version 7.0 is our interactive coronary tree diagram, which allows for visual representation of anatomies, measurement values, stenosis, and irregularities.

Departments using GE's MacLab v6.5 may now link their systems to *syngo* Dynamics, allowing for captured hemodynamic data to be integrated into procedure reports.

The previous extensive interface with Siemens Sensis hemodynamic systems continues with improvements in evidence-based reporting from Sensis. This includes the capability to insert saved tables from Sensis into worksheets, as well as allowance for mandatory fields within worksheets.

In order to provide the best possible image review, version 7.0 of *syngo* Dynamics now gives the user bi-plane synchronization and secondary image review for both CR and DR images.



Adding visualization techniques and improving evidence-based reporting have made *syngo* Dynamics a comprehensive and powerful cardiology IT solution for your clinical needs.



## Hospital-wide Integration

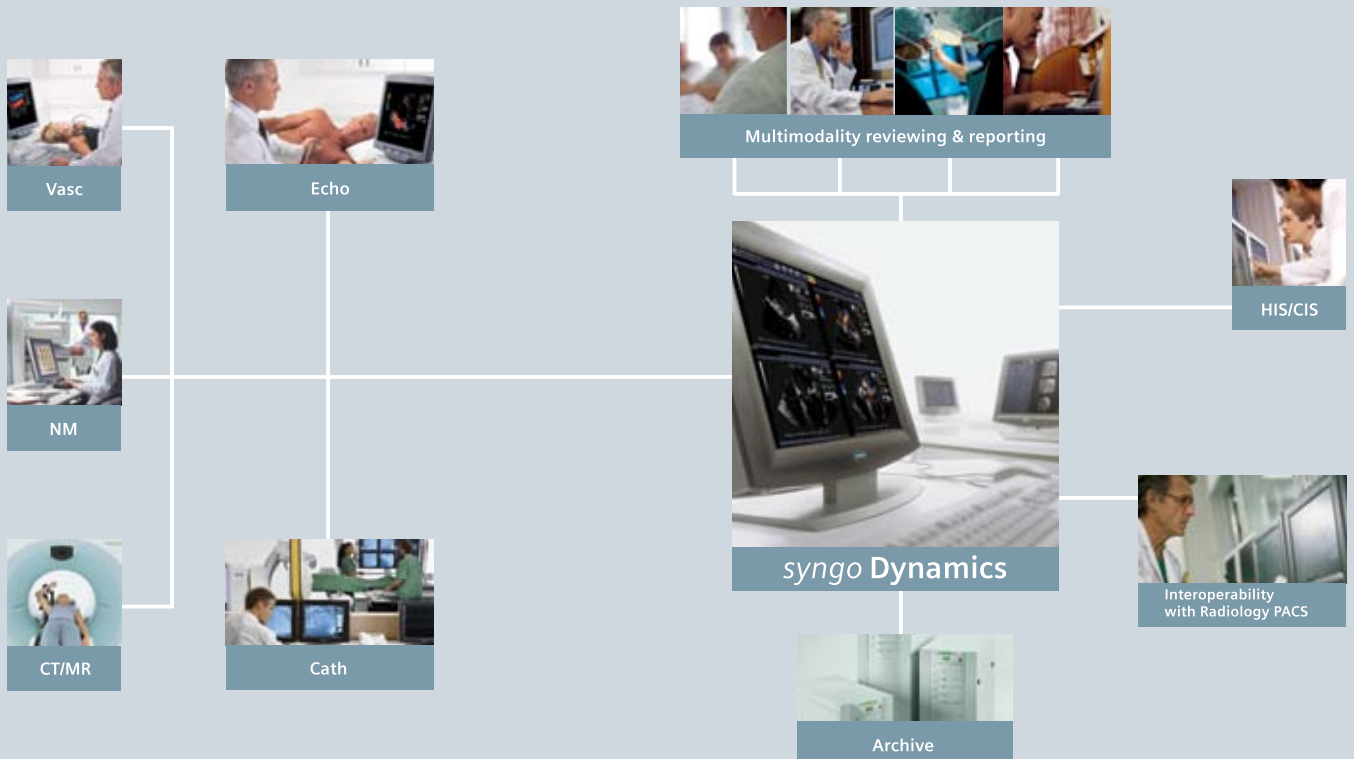
*syngo* Dynamics supports DICOM modalities from ultrasound, radiology, and cardiology imaging systems to provide a more complete imaging record. We also continue to support DICOM Structured Reporting (SR) for qualified acquisition systems. DICOM SR provides the most robust, open interface to imaging modalities generating the studies and data from the patient. Once the report is complete, *syngo* Dynamics provides the capability to move the data in a variety of formats, including bmp and txt, and to other information systems such as HIS, through an interface engine or broker.

- Floating licenses to provide greater accessibility
- LAN-deployable workplace
- HSM Archiving
- ADT messaging via association with HL7
- Flexible criteria searches of entire database through use of data mining and Discrete Data Export (DDE)
- Internal lossless compression for maximized storage
- 16:9 and 4:3 screen support
- Servers scaled to fit the needs of your facility

To ensure data integrity and rapid results distribution, *syngo* Dynamics supports interfacing with hospital and clinical information systems.

For even wider accessibility, the Siemens solution provides direct, secure, and cost-effective access to DICOM images and reports via secure Internet and your facility's intranet. This simplifies conferencing and interactive presentations, allowing discussions among multiple viewers without film or paper.

To complete the cardiology workflow, *syngo* Dynamics can also interface to departmental information systems, providing robust image management and reporting functions. The data collected and observations generated can be distributed to information systems, portals, and fax destinations, ensuring data integrity and supporting a comprehensive patient record.





## Security Features

*syngo* Dynamics security features can help your site develop policies to comply with privacy and security regulations for controlling access to Protected Health Information (PHI).

The *syngo* Dynamics Privacy and Security Package activates the following features:

- Audit logging
- Emergency user access
- Single logon from Windows® directly to *syngo* Dynamics in high-security mode
- Auto logoff in high-security mode
- Administrator-defined levels of study access



## Simplifying Your Operations through Siemens Value-Added Services

Siemens value-added services will help you significantly increase your workflow and improve your performance in cardiovascular care.

Siemens Life Program assists you in getting the most from your investment. Our wide array of clinical education and customer support enable the continuous development of your skills, productivity, and technology.

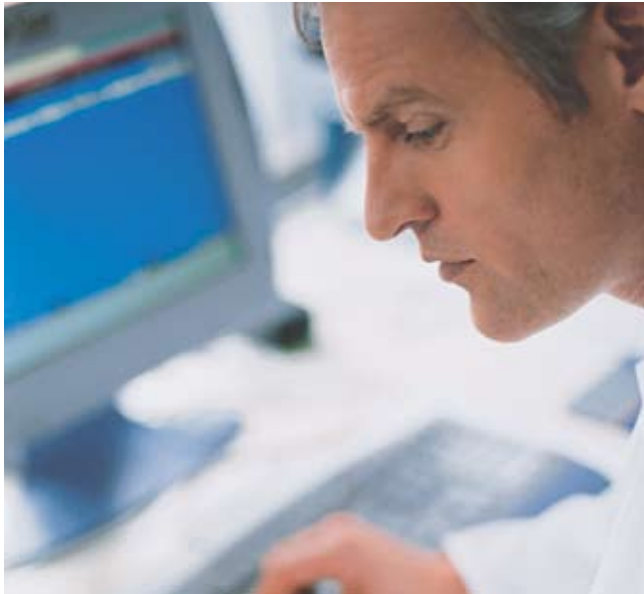
Siemens Consulting and IT services offer optimized processes and methods that can help you organize and adapt to market demands.



## Information Availability

*syngo* Dynamics has been designed to ensure data integrity and rapid results distribution throughout your facility. Interface engines for a variety of HIS and departmental information systems are available, and especially robust data and image management capabilities are available for integration to Siemens Soarian® systems. Information security is of particular concern, and *syngo* Dynamics supports compliance to HIPAA and PHI standards.

Siemens can provide high-availability configurations, including failover and cold-server options to give you confidence in the reliability of your system.



## Building on Experience

*syngo* Dynamics continues a long tradition of departmental IT excellence. Beginning with the foundation of the world-class KinetDx system and adding the global knowledge reach of Siemens Healthcare – bringing together expertise in all aspects of cardiology and information and image management – *syngo* has grown into a true multimodality, multifunctional system.

With a single platform for image review and data management, *syngo* Dynamics combines technical capability and clinical expertise to give you the best cross-departmental system possible.

# *syngo* Suite. Living Workflow Intelligence.

*syngo* Dynamics follows the stringent *syngo*® philosophy, providing trendsetting end-to-end imaging workflow solutions — based on the common *syngo* user interface and platform.

*syngo* is role based: whether Administrator, Technologist, Cardiologist, or Referring Physician — *syngo* compiles the information in a way that ensures you can optimally perform your individual job.

*syngo* is context sensitive: Because *syngo* always knows where you are in your workflow, it automatically delivers exactly what you need at that stage.

*syngo* is knowledge driven: *syngo* automatically completes the picture of the respective case — using all data and information collected during the diagnostic process.





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