

## *syngo* MammoReport

The all-around 2D/3D breast care workplace.

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

**SIEMENS**

How can we boost productivity in breast reading?

And work interdisciplinary?

Can we have multi-modality, in one workplace?

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## Add a new dimension to breast care – with *syngo* MammoReport

Whether for screening and diagnostics routine or more sophisticated applications, our new *syngo* MammoReport is the first real multi-modality solution for breast care. The workplace offers 2D and 3D reading; it unites mammography, tomosynthesis, 2D and 3D ultrasound, and breast MRI in one; and it connects with third-party imaging and IT systems, including multiple RIS at a time. Open up to the future of breast care reading. And experience the world's first all-around 2D/3D breast care workplace – *syngo* MammoReport.

Answers for life.

• syngo MammoReport

# 2D it for routine, 3D it for more!

## Breast Ultrasound – with ABVS Workplace

The ABVS Workplace enables efficient and comprehensive analysis of the 3D data and facilitates semi-automated reporting.

## Breast MRI – with syngo BreVis

Especially designed for Breast MRI, 3D reading with syngo BreVis is easy-to-use, fast, and reliable – thanks to quick pre-processing tools and precise motion correction.

## Digital Mammography – with fast and flexible tools

Ideal for high-throughput 2D mammography reading, syngo MammoReport provides extremely fast image loading and a configurable diagnostic workflow – making it fast for screening and flexible for diagnostics.

## Breast Tomosynthesis – with TomoViewer\*

Reading tomosynthesis images is just like reading mammography images – only in 3D. Automated layouts of tomosynthesis and corresponding 2D images make reporting fast and intuitive.



\* Not available for sale in the U.S.

2D it for routine!

# Master **high-throughput** mammography screening

*syngo* MammoReport is a powerful basis for dedicated mammography screening. Ideal for viewing standard 2D images, it is fast for screening and flexible for diagnostics.

- Benefit from fast image loading
- Tailor the screening and diagnostics workflow to your needs
- View all relevant DICOM images – with full *syngo* functionality

**“For me, speed is the crucial advantage of *syngo* MammoReport.”**

Dr. Jochen Schenk,  
Radiologisches Institut Hohenzollernstraße, Koblenz, Germany



# Digital Mammography – fast for screening, flexible for diagnostic

*syngo* MammoReport enables high-throughput mammography screening – based on standard 2D images. An array of clever features speed up your clinical workflow.

## Designed for high-throughput screening workflows

A great number of patients per day, high-throughput reading and reporting, large data volumes – a busy screening site has specific requirements for its breast care workplace. Quick, easy, and intuitive, *syngo* MammoReport is ideally suited for double reading. And it offers extremely fast image loading: Up to eight images can be called up in less than one second using the MammoBrowser worklist.

## Easy comparison with prior images

*syngo* MammoReport enables you to scroll quickly and easily through multiple priors. And with the latest mammogram staying in place, you can gain a fast overview and compare images at a glance.

## Integrating Computer-Aided Detection (CAD)

*syngo* MammoReport supports Siemens' *syngo* MammoCAD\*, a computer-aided detection (CAD) software. *syngo* MammoCAD analyzes images and generates CAD marks to highlight suspicious areas, such as masses and microcalcifications. *syngo* MammoReport also supports CAD marks from other vendors (e.g., iCAD).

## Dedicated keypad for high-speed reading

*syngo* MammoReport comes with a special keypad that makes operating the workplace very easy and intuitive. A light indicates if you are in the screening or diagnostics workflow. In both modes you can browse images with the push of a button.

*syngo* MammoReport offers a unique range of intelligent processing tools for digital mammography – speeding up reading and reporting while increasing diagnostic confidence.

## Confident detection and diagnosis

*syngo* MammoReport supports you in your daily work. Whether spot, magnification or biopsy images, the breast care workplace offers the right tools for quick and easy evaluation. You can also configure different image impressions, set markers, point out regions of interest or write reports. *syngo* MammoReport was designed with your diagnostic confidence in mind.

## Intelligent mammography tools

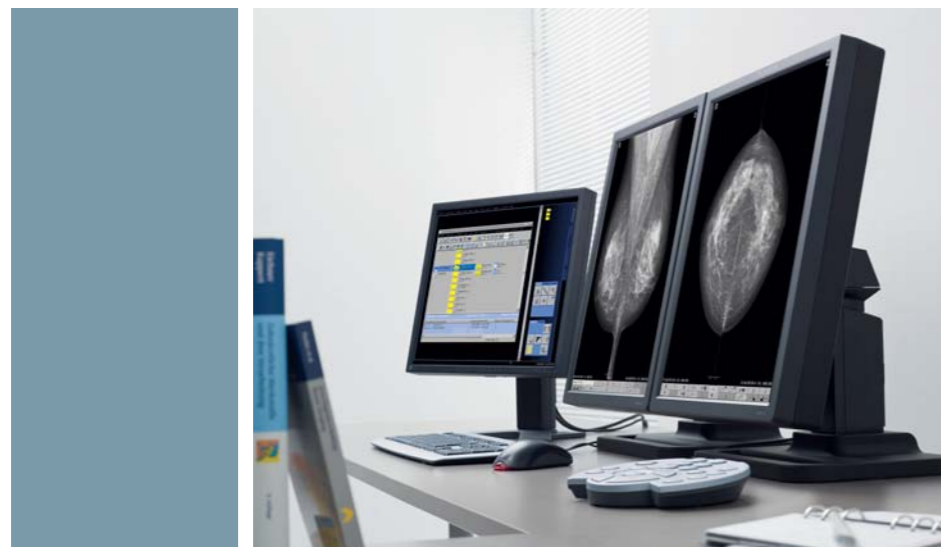
Quickly achieve accurate results – supported by a set of dedicated mammography tools. Magnifying glasses provide full spatial resolution. Structured roaming and a panning function allow you to navigate faster through the displayed image in full spatial resolution. Optional advanced tools such as SmartSelect™ and Corridor of Interest further boost your workflow: SmartSelect means quick access to your favourite tools. Corridor of Interest supports you in identifying marked lesions in a second view for easier comparison.

## Configurable diagnostic workflow

Tailor your diagnostic workflow to your individual needs – with the highly flexible *syngo* MammoReport. Individualize your daily work and set up your own course of evaluating mammograms – for example, you can pre-define your preferred order of projections. 2D ultrasound images and CAD can also be included to match your breast care workflow.

## Full *syngo* functionality – your access to multi-modality reading

*syngo* MammoReport comes with full *syngo* functionality, enabling you to display all relevant DICOM images from any modality or vendor. A standard feature of *syngo* MammoReport, this is your key to multi-modality reading and reporting. And, if you want to add a new dimension to breast care, the new additional innovative 3D applications give you the opportunity to extend your breast care workplace on a modular basis.



*syngo* MammoReport is the ideal 2D mammography reading workplace – while its modular approach gives you the opportunity to integrate innovative 3D applications.



*syngo* MammoReport's special keypad simplifies your mammography workflow.

3D it for more!

# Add a **new dimension** to breast care

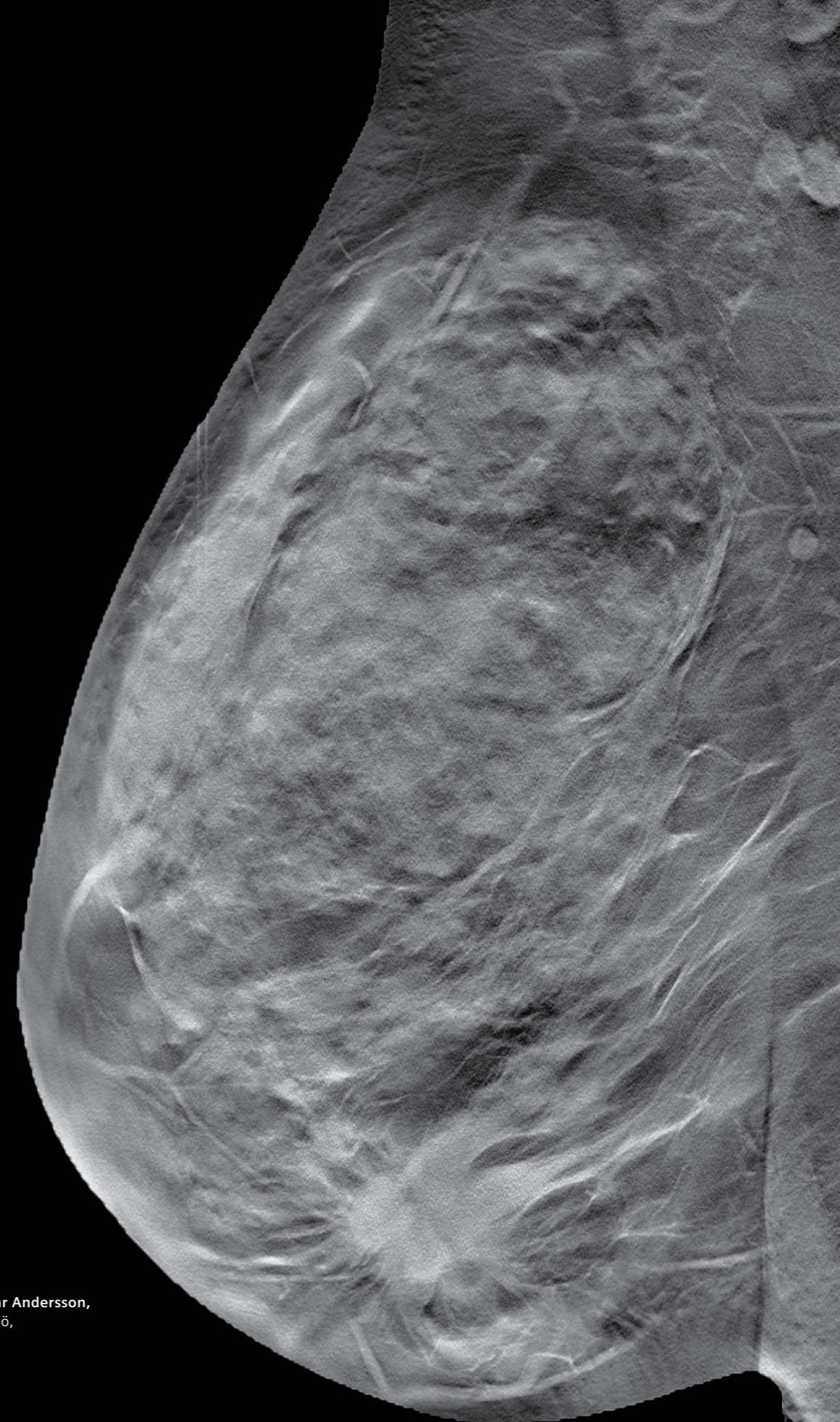
**syngo MammoReport** provides access to innovative 3D applications, combining tomosynthesis, 3D Ultrasound, and 3D Breast MRI with mammography – in one workplace

- Experience true multi-modality reading and reporting
- Master sophisticated applications easily
- Work interdisciplinary, e.g., in cooperation with radiology and oncology departments

**“Whoever does not utilize 3D breast imaging runs the risk of overseeing early-stage tumors.”**

**Prof. Dr. Detlev Uhlenbrock,**  
MVZ Prof. Dr. Uhlenbrock & Partner,  
Dortmund, Germany

**By courtesy of Dr. Ingvar Andersson,**  
University Hospital Malmö,  
Malmö, Sweden



## Breast tomosynthesis – with TomoViewer\*

Take the intuitive way from 2D mammography to 3D tomosynthesis reading – with TomoViewer\*. Proven viewing and processing tools support your workflow from the start.

### Seeing better – seeing more

Especially for dense breast tissue, 3D tomosynthesis\* can improve early detection and reduce recall rates and biopsies. The reason: It supports better visibility of lesions thanks to reduced tissue overlap and contrast enhancement of masses. *syngo* MammoReport also enables optimized reading of breast tomosynthesis images – with TomoViewer\*.

### Optimal display of 3D tomosynthesis\* images

TomoViewer\* facilitates a direct comparison of individual 2D images with the reconstructed 3D volume. It simply displays the images simultaneously on two monitors and also allows an easy comparison of tomosynthesis images with prior exams.

### Dedicated tools for image reading

TomoViewer\* supports a dedicated reading workflow for tomosynthesis images. The application allows you to scroll and view the images in CineMode™. Maximum intensity projection further improves the visualization of micro-calcifications. With true 3D multi-modality viewing as well as numerous tools, *syngo* MammoReport with TomoViewer\* further streamlines your diagnostic workflow.

TomoViewer\* is a dedicated application for 3D breast tomosynthesis reading.



## Breast Ultrasound – with ABVS Workplace

Deliver a new dimension in ultrasound breast imaging – with the ABVS Workplace. Review and report on full-volume 3D ultrasound images using comprehensive tools as well as fast, accurate template-driven reports.

### Improving clinical value of breast ultrasound

The ACUSON S2000™ Automated Breast Volume Scanner (ABVS) produces full-field volumes of the breast. Automated Breast Volume Scanning allows the physicians to experience detailed 3D images of intricate anatomy and pathology, thus improving the clinical value of breast ultrasound.

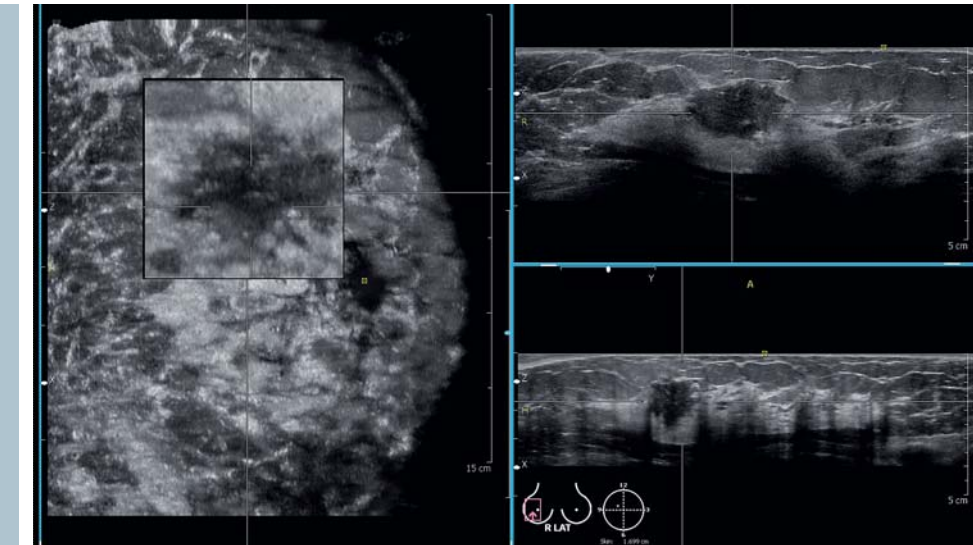
### Intuitive volume image analysis and manipulation

With *syngo* MammoReport, the ABVS Workplace takes analysis and reporting of 3D ultrasound data offline. A range of diagnostic tools helps you spend less time with the volume and more time with the clinical information it contains. To increase diagnostic confidence, the “free rotation” tool is used to manipulate the complete volume data set – similar to performing an actual exam – eliminating the need to rescan or recall the patient.

### Unique coronal plane – easy visualization

The ABVS Workplace offers five standard orientations: transverse, sagittal, coronal, radial, and anti-radial. The coronal view provides a more understandable representation of the breast’s global anatomy and architecture. In addition, the coronal plane allows a comprehensive view of the breast from the skin line to the chest wall, which facilitates surgery planning.

The ABVS Workplace provides you with a range of diagnostic tools for 3D breast ultrasound reading.



## Breast MRI – with syngo BreVis

Classify your findings with Breast MRI. *syngo* BreVis is easy-to-use, fast, and reliable. Quick pre-processing and precise motion correction enable efficient reading and reporting.

### Superior clinical details

Cancerous tissue often has a greater blood supply than non-cancerous tissue. Providing the contrast needed to detect increased blood supply, Breast MRI enables you to identify small lesions that are sometimes missed on mammography or ultrasound images. Breast MRI is particularly useful when screening younger women or women with a genetic predisposition for cancer.

### Flexible Breast MRI reading and reporting

A dedicated Breast MRI application, *syngo* BreVis is easy-to-use, fast, and reliable. The computer-aided tool for real-time analysis is equipped with standard BIRADS (Breast Imaging Reporting and Data System) Reporting, Auto-Subtraction and Auto-MIP, elastic image correction in case of patient movement, and color overlay maps – for efficient breast reading and reporting.

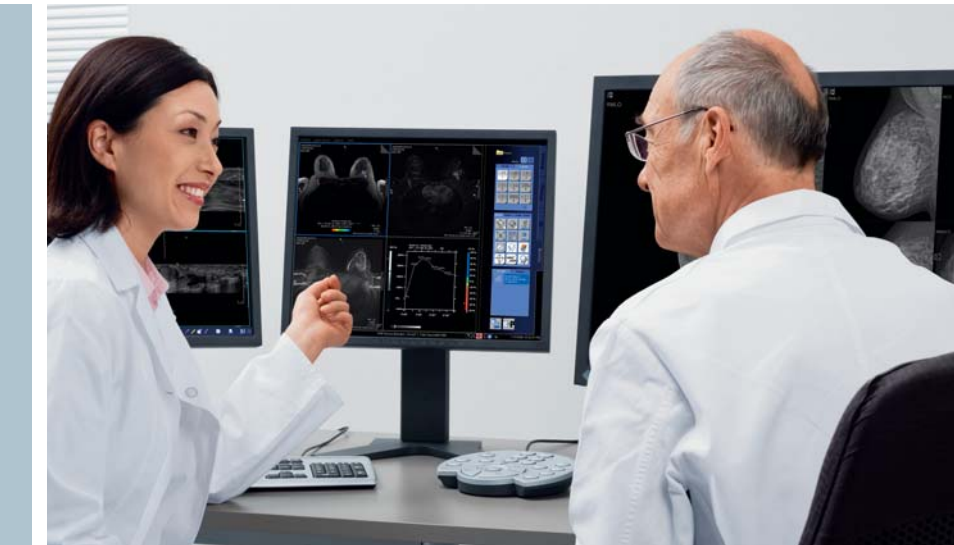
### Clever features and functions

Especially designed for Breast MRI, *syngo* BreVis provides various functionalities to support you in your work – such as an intelligent visualization of 2D, 3D, and 4D data sets according to customized layouts, real-time display, and time curve analysis or calculation of lesion volumes.

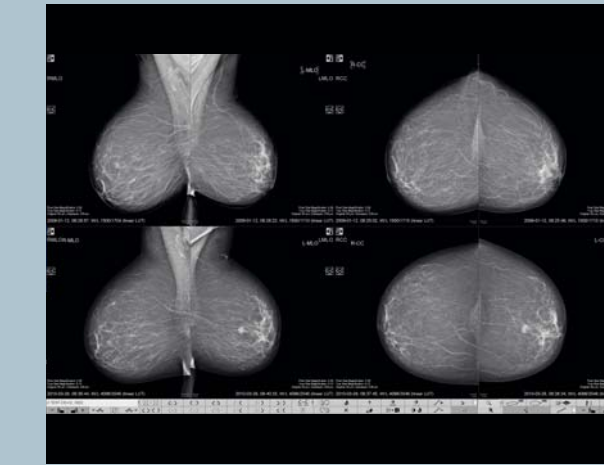
### Streamline your breast workflow

*syngo* BreVis enables post-processing of image data and offers various tools for enhanced diagnostic support. The diagnostic reporting software provides features that further streamline your clinical workflow.

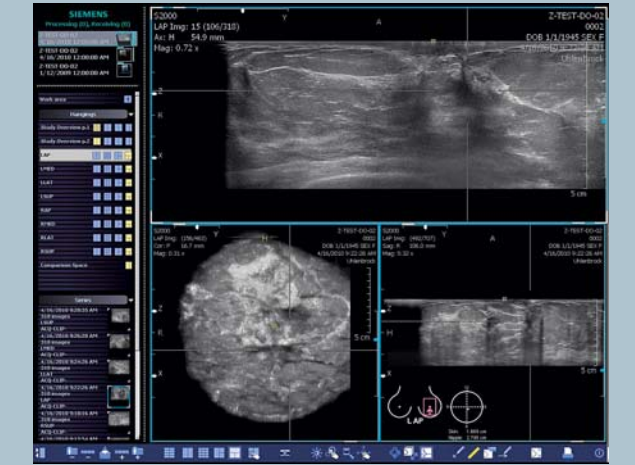
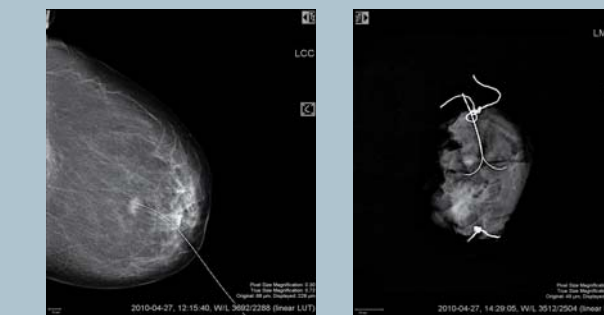
*syngo* BreVis offers intelligent visualization of 2D, 3D, and 4D Breast MRI data sets.



### Clinical Case 1



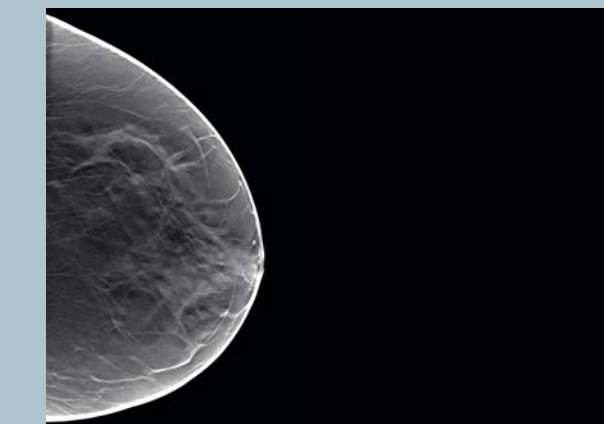
Easy comparison of current and prior mammograms. Two years after removing a breast cancer, a suspicious lesion in the left breast is detected during the yearly follow-up mammography exam.



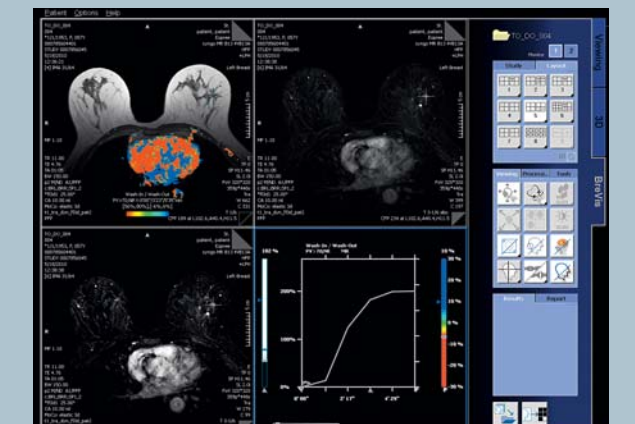
3D Ultrasound with ABVS provides a full volume dataset for retrospective slice reconstruction including a coronal view. This and the supine position of the patient during the 3D ultrasound exam makes ABVS exams an ideal basis for surgery planning.

The recurrent tumor has been wire-marked and removed by surgery.

### Clinical Case 2



Reduced tissue overlap. Two suspicious masses can be clearly depicted in the tomosynthesis exam. The lateral lesion had been already detected by 2D mammography and ultrasound.



High sensitivity for small lesions. Additional motion correction further enhances the accuracy of Breast MRI.

Connect it!

## High connectivity – for an advanced workflow

A true multi-modality breast care workplace, *syngo* MammoReport offers powerful networking capabilities and high connectivity, working with imaging and CAD systems – including third-party suppliers. This high connectivity enables an easy integration into your breast reading environment.

### *syngo* MammoReport provides connectivity to ...

#### ... multiple RIS


*syngo* MammoReport provides exceptional integration as it can connect and communicate with multiple RIS systems, e.g., one for your radiology department and one for your screening unit. The breast care reporting workplace can be connected to many RIS systems existing on the market and/or to a specific screening RIS system in your clinical environment. The integration allows image call-up directly from the RIS worklist.

#### ... third-party modalities

*syngo* MammoReport is fully compliant with DICOM and offers true multi-vendor support as it fulfills IHE standards. Therefore, it easily connects to multiple modalities including third-party systems, allowing you to display mammograms from other vendors according to the defined guidelines on *syngo* MammoReport.

#### ... CAD solutions

You can benefit from a CAD-driven workflow, as *syngo* MammoReport supports Siemens' own *syngo* MammoCAD\* and CAD systems from different vendors.



*syngo* MammoReport is vendor-independent and connects to multiple RIS/PACS, imaging modalities, and CAD systems – optimally supporting your breast care environment, your clinical specialties, and your individual workflow.

# syngo MammoReport

- **Enhances your breast care workflow** by bringing all your breast-care-related applications together at one workplace, whether 2D or 3D
- **Increases diagnostic confidence** through a true multi-modality approach, you have all breast-care-related images and applications just where you need them
- **Opens doors to the future of breast care** by offering access to innovative 3D breast applications like Breast Tomosynthesis, 3D Breast Ultrasound, and Breast MRI
- **Simplifies interdisciplinary cooperation** by providing a multi-modality base for the exchange, communication and interaction with colleagues, e.g., from radiology or oncology
- **Easily integrates into your breast reading environment** through powerful networking capabilities with different modalities and multiple RIS and PACS, regardless of manufacturer
- **Gives you flexibility** through its modular approach, you can tailor your breast workplace to your needs

# Breast Care Solutions



**Breast Care Solutions. For women. For health. For life.**

Part of our comprehensive Breast Care Solutions approach, the new syngo MammoReport is your all-around 2D/3D workplace for integrated breast cancer care. See everything you need at a glance, view your images at one workplace, and benefit from advanced image reading and reporting – whether for screening, diagnosis or follow-up. With a unique multi-modality approach, syngo MammoReport and Siemens Breast Care Solutions give you more confidence in your clinical performance and help increase the competitiveness of your business.

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