syngo.plaza – Reading, any dimension.

The agile PACS, where 2D, 3D, and 4D reading comes together in one place.

www.siemens.com/syngo.plaza
How to navigate within the e-brochure

The embedded videos feature sound, so don’t forget to turn on your speakers.
syngo.plaza
Reading, any dimension.

syngo.plaza is the agile PACS and reading software, where 2D, 3D, and 4D reading comes together in one place.

Drawing on Siemens Healthcare IT expertise, syngo.plaza is designed to meet the image reading needs by providing a wide range of applications and tools to support fast and efficient reading workflow.

High-throughput reading helps to enhance your workflow, and the intuitive user interface can be personalized in line with your preferences. The easy-to-manage IT environment helps to save time, resources and effort, while Smart Data Conversion allows for a smooth transition from legacy systems. And because syngo.plaza integrates seamlessly with syngo.via¹, users can tap into the ultimate potential of syngo – accessing a host of innovative applications through a common interface. Plus, the modular, scalable design can keep costs down while leaving room for future growth.

¹ syngo.via can be used as a standalone device or together with a variety of syngo.via-based software options, which are medical devices in their own rights.
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High-throughput reading

- Rapid loading performance
- Personalized tools and layouts
- Wide spectrum of clinical applications

Delivering rapid loading of images, syngo.plaza helps to enhance your workflow. The system features a variety of applications to master a broad range of clinical challenges – and can be tailored to suit your personal preferences.
Rapid loading performance

syngo.plaza loads large image data sets quickly and efficiently, due to a combination of state-of-the-art technology and intelligent thin slice handling. This helps to minimize unproductive time spent waiting for images to load, and enables you to start reading right away.
Rapid loading performance

Loading performance

syngo.plaza loads up to 200 images\(^1\) per second, slashing wait time from minutes to seconds, and boosting productivity. Fast loading is particularly beneficial when you need to perform routine reading of large data sets such as those generated by CT or MRI equipment – as these often include 2,000 images or more.

How you can benefit:

- Fast image access
- More time for image reading
- Increased procedure throughput

\(^1\)Results may vary. Data on file.
Rapid loading performance

loading performance

*syngo.plaza* loads up to 200 images per second, slashing wait time from minutes to seconds.
Rapid loading performance

Smart Read

syngo.plaza enables you to identify selected large volume data, such as thin slice series, and prevents them from loading. Smart Read\(^1\) helps to minimize wait times and to speed up the overall reading process. And if you later wish to view images that you prevented from loading, you can still easily identify and load them.

In addition, it is possible to define rules for preventing certain data such as thin slices from archiving.

\(^1\) Under development. Not available for sale in the U.S.

syngo.plaza >> High-throughput reading

RSNA version
Rapid loading performance

Smart Read

Smart Read\(^1\) – intelligent handling of large volume data.
Personalized tools and layouts

`syno.plaza`'s attractive and intuitive interface allows you to navigate through cases quickly and effectively. Multiple tools are available for streamlining access to functions and patient data. And personalized layouts make your daily routine more efficient – and increase reading throughput.
Personalized tools and layouts

Overview

**SmartSelect**

SmartSelect speeds up reading workflows and minimizes mouse meters by providing direct access to frequently used functions.
Personalized tools and layouts

SmartSelect

Access frequently used functions with minimal mouse meters

SmartSelect speeds up and simplifies reading workflows by providing direct access to up to eight individually defined functions. This eliminates unnecessary mouse clicks and movements – minimizing “mouse meters”. And as you can activate functions with a single click, you can keep your eyes focused on the images. This helps you to save valuable time and reduces mouse fatigue.
Personalized tools and layouts

SmartSelect

SmartSelect – access your favorite functions while minimizing mouse meters.
Personalized tools and layouts

Personalized tools

Rapid access to key functions

Corner Menu and Context Menu provide rapid access to a set of functions as pre-defined by the user. This means you can select functions which are presented in the menus in line with your needs – and access them whenever needed. The graphic interface of these tools is transparent – so you always have an unobstructed view of the images while selecting the required function.

In addition, the shortcut keys and tool boxes can be tailored to include a wide range of functions to suit your personal reading preferences.
Use the arrows to explore syngo.plaza’s personalized tools.

Start
Personalized tools and layouts

Personalized layouts

Arrange images in line with your viewing preferences

Personalized layouts help to speed up analysis by quickly putting all information, tools and images at your fingertips – in your preferred arrangement. Moreover, you can define highly personalized layouts for specific modalities, organs, or series.

syngo.plaza supports up to four viewing monitors – so you have great flexibility in setting your viewing preferences.
Personalized tools and layouts

**Personalized layouts**

Easy layout creation – supports fast analysis.
Personalized tools and layouts

**Token View**

*Streamlined navigation*

Token View displays all series within the loaded data sets, and enables fast and efficient navigation. Its well-defined icons provide orientation within the data set, helping you read more efficiently and enabling you to focus on the images. In addition, it reduces mouse clicks and mouse meters. Token View also simplifies the preparation of demos. Adding the series directly to an individual demo list is easy.
Personalized tools and layouts

Token View

Token View – enhancing reading efficiency.
Comprehensive access to patient history

The syngo.plaza Patient Jacket presents a patient’s medical history at a glance – including prior exams, RIS reports, and DICOM Structured Reports. You can simply anchor data sets on the screen for easy comparison. Thumbnails help you keep a precise overview of all available data sets.
Finding, not searching

The Findings Navigator automatically tracks and lists all findings and measurements. While you concentrate on the images, your findings are collected in a single location for easy access – saving you valuable time when reviewing the case. In addition, the Findings Navigator accelerates workflows such as holding clinical conferences or consulting with referring physicians. Plus, it helps save referring physicians’ time by helping them efficiently locate and view the right images in a data set.
Personalized tools and layouts

Findings Navigator

Findings Navigator – finding, not searching.
Simplifying the CT and MRI reading process

Cross Reference provides excellent orientation guidance for reading CT and MRI studies. It helps to triangulate physiology across multiple orthogonal views. As such it allows you to mark a specific spatial location simultaneously across multiple series in a data set. This enables fast and easy identification of small structures in particular, such as nerve endings.
Personalized tools and layouts

Cross Reference

Cross Reference – fast and easy identification of all, especially small structures.
Wide spectrum of clinical applications

syngo.plaza saves time by allowing you to access functions that are usually only available at separate workstations – such as DSA functionality or display options for mammography\(^1\). Plus, when used with syngo.via\(^2\), syngo.plaza allows you to access advanced applications from your PACS easily.

\(^1\) Option
\(^2\) syngo.via can be used as a standalone device or together with a variety of syngo.via-based software options, which are medical devices in their own right.
Wide spectrum of clinical apps

Overview

Digital Subtraction Angiography (DSA)
syngo.plaza supports Digital Subtraction Angiography (DSA) by offering extended functionality for displaying and processing DICOM XA images.

1 Option
2 Option, mediCAD is a medical device of HECTEC GmbH, Landschut, Germany.
3 Option, mediCAD V 6.0 required
4 Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations.
syngo.plaza offers extended functionality for displaying and processing DICOM XA images, broadening the range of PACS functions. You can nominate a mask image, reduce the number of artifacts resulting from patient motion by using the manual pixel shifting technique, and view the subtracted sequence in cine mode – all directly from syngo.plaza. And because you do not need to switch workstations, you can focus on reading images.
Wide spectrum of clinical apps

DSA functionalities

Digital Subtraction Angiography (DSA) – diagnostic reading in the PACS.
Quick and simple evaluation of Cardiothoracic Ratio (CTR)

The CTR tool supports rapid diagnosis of possible cardiac enlargement, saving valuable time. By simply clicking five points within the chest radiograph, you can establish the ratio between heart and thorax. The result is displayed on the image and in the Findings Navigator.
Wide spectrum of clinical apps
Cardiothoracic Ratio (CTR)

Cardiothoracic Ratio evaluation – quick and simple.
Rapid spine labeling for maximum accuracy

Spine Labeling helps to maximize accuracy by identifying the vertebrae and labeling them in the sagittal view. It greatly reduces the need to additionally label other views and helps referring physicians quickly identify the location of the vertebrae and spinal discs.
Wide spectrum of clinical apps

Workflow support for mammography

Functions that support mammography reading

syngo.plaza features reporting functionality that supports mammography reading – allowing you to display MG/CR/DR/DX images and create specific workflow steps. It also supports views such as magnification and focal/spot compression. Further functions include e. g. “fit breast to screen” and “true-size” display and incorporation of BI-RADS reporting.

\[1\] Option

\[2\] In the U.S. for primary image diagnosis in mammography only uncompressed or non-lossy compressed images and only preprocessed DICOM “For Presentation” images must be used. In the U.S., monitors (display) should not be used for diagnosis, unless the monitor (printer) has specifically received FDA clearance for this purpose.
Wide spectrum of clinical apps

Workflow support for mammography

Mammography workflow – streamlined and optimized.
Wide spectrum of clinical apps
Case specific reading in 3D/4D with syngo.via

2D, 3D, and 4D reading from a single workplace

syngo.via\(^1\) delivers advanced 3D and 4D postprocessing of images – and when combined with syngo.plaza, it makes your reading even more efficient. By simply clicking on a study, syngo.plaza automatically loads the series into the syngo.via workflow you require. syngo.via and syngo.plaza feature the same intuitive user interface – whether for routine or complex readings, in 2D, 3D, or 4D.

“The combination makes this system one of a kind. The time that my colleagues and I used to spend searching can now be spent on the diagnosis.”

Markus Lentschig, MD
ZEMODI (Zentrum für moderne Diagnostik), Bremen, Germany

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Wide spectrum of clinical apps

Case specific reading in 3D/4D with syngo.via

The combination of syngo.plaza and syngo.via allows you to perform 2D, 3D, and 4D reading from a single workplace.
Efficient digital surgical planning

syngo.plaza supports mediCAD\textsuperscript{1} which is used for digital surgery planning in trauma, surgery, orthopedics, and pediatrics. It offers several modules such as Hip-, Endoprosthetics/Biometry, Knee Endoprosthesis, Osteotomy, and Trauma. The results of mediCAD planning can be automatically forwarded, e.g., to the OR (operating room) or to the archive.

\textsuperscript{1} Option, mediCAD is a medical device of HECTEC GmbH, Landshut, Germany.
Wide spectrum of clinical apps

Endoscopy support

Store and transmit digital endoscopy data

There is an increasing interest in using the PACS to store and transmit digital endoscopy data. With syngo.plaza, you can archive and play back video in DICOM MPEG-2 format (e.g. as produced by Karl Storz endoscopy imaging equipment).
Convenient image access

syngo.plaza Web gives you convenient anytime access to clinical data and the tools you need, even from home. The syngo.plaza Web clients feature the same intuitive user interface as the reporting client for radiologists and, thus, make training easy. The clients can be extended with powerful tools for 3D reconstruction (MIP, MPR, VRT etc.) and prepared to support two displays. Referring physicians can simply install the syngo.plaza Web client on a commercially available standard PC – a cost-efficient way to access images.

1 Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations.
Manage and share clinical data

Physicians need a way to effectively manage clinical data and to share it with stakeholders including hospitals, referring physicians, and patients. syngo.plaza offers various ways:

- Integration with VIDAR film digitizer¹
- Import external patient studies with ability to preview studies prior to import
- Export images in DICOM and non-DICOM formats
- Create CDs/DVDs for your patients
- Share images beyond the hospital network with advanced auto-routing¹

¹ Option

Wide spectrum of clinical apps
Data sharing options
Easy-to-manage IT

- Modular and scalable design
- Minimal administrative effort
- Smart Data Conversion

The modular, scalable design of syngo.plaza opens up new possibilities for integration and future growth. Easy to use, it requires minimized administrative effort. Thanks to Smart Data Conversion, migration from a legacy system couldn’t be easier.
Modular and scalable design

syngo.plaza is characterized by its modular software, applications and hardware. As a result, it is suitable for deployment in a wide range of customer scenarios and can respond flexibly to changing requirements. It expands to accommodate new sizing parameters, offering reliable support for future growth.
Expandable functionality

syngo.plaza delivers superior functionality and performance – for today and tomorrow. If your requirements change, it simply adapts to new situations, seamlessly. Let your PACS grow in line with your needs, budget and continuous technical innovation, setting you a step ahead. syngo.plaza flexibly accommodates additional procedures or clients, new clinical functionality and hardware extensions.

Scalable storage

syngo.plaza can be adapted to meet fluctuating sizing parameters. Internal expansion, acquisitions, fusion with other facilities and new workflow demands are all possible reasons to extend the data storage of your installed syngo.plaza system.
Modular and scalable design
Expandable functionality

*syngo.plaza* grows in line with your needs, budget and continuous technical innovation, setting you a step ahead.
The solution can be tailored to include the IT components that best meet your needs and offer superior value for money. *syngo.plaza* can not only be ordered as a combined software and hardware solution, it is also available as a software only module. This means you can continue to deploy your existing hardware – provided it meets the minimum requirements. *syngo.plaza* can be deployed on virtual machines and integrated into existing customer VMware environments. Customer demand for virtualized *syngo.plaza* systems is on the rise. The top three benefits expected for virtualized servers are cost savings, increased availability and simplified maintenance.
Minimal administrative effort

With *syngo.plaza* you can significantly reduce the IT department’s administrative effort. The system is reliable, stable, and easy to manage. Plus it can be integrated into popular Microsoft and Citrix environments.
The syngo.plaza Administration Portal\(^1\) improves the quality of configuration and supports effective monitoring of the syngo.plaza system. Using a central portal reduces costs and the number of operating steps, as well as saving time. Based on access right, administrators can access the portal through the web.

**Benefits for IT administrators:**

- Overview of current system status, active users and current system configuration.
- Remote administration of the system from a web browser.
- Display and filter of system messages for rapid maintenance.
- Display of available online help information.
- DICOM nodes can be added quickly.
- Detailed information on installed hardware and software.
- Access to Siemens Remote Service and documentation for application support.

\(^1\) Under development. Not available for sale in the U.S.
Deploying one common operating system for all servers greatly reduces administrative effort. In addition, the use of Microsoft® environments supports simple integration with the hospital’s existing IT infrastructure. As a result, implementation and service costs are lower and administrators can expect higher acceptance of the lean architecture.

By installing the syngo.plaza client on the Citrix1 Presentation Server the user can run the syngo.plaza application as a thin client on standard PCs. In addition, syngo.plaza in a Citrix environment supports central installation, administration, and maintenance of the clients on Citrix Presentation Servers.

1Citrix XenApp version 6.0 required.
Smart Data Conversion

Smart Data Conversion offers a fast and efficient mechanism to upgrade legacy PACS systems to syngo.plaza. This means users can start leveraging syngo.plaza right away – and benefit from more efficient workflows. This strengthens your competitive position.
Thanks to the Smart Data Conversion services offered by Siemens, it is possible to convert image files from any Siemens PACS system to syngo.plaza. You can directly access all images stored in the legacy system even while the conversion is underway.

In addition, these services streamline migration from third-party systems to syngo.plaza. In this case, the images are transferred via the DICOM protocol from any PACS source archive to syngo.plaza. The migration can be scheduled flexibly, in line with individual needs.
Ultimate potential of syngo

- Common intuitive user interface
- Seamlessly connected hospital IT
- Convenient single-vendor solution

syngo.plaza seamlessly integrates with your hospital’s IT environment, and features the same familiar interface as other syngo products and Siemens imaging systems. By using software and modalities from a single vendor, you benefit from a highly convenient user experience.
Common intuitive user interface

syngo is Siemens’ unique platform for medical imaging, providing rapid access to applications. With Siemens, systems and services go hand-in-hand. Together with our reputation as a technology leader, this makes us the partner of choice for all your imaging needs.
**Common intuitive user interface**

**Overview**

**syngo** – The syngo platform is a central hub for the entire medical and diagnostic chain. From image creation to diagnosis, it supports image management, archiving, web-based distribution and more – accelerating workflows and enhancing collaboration.

1 syngo via can be used as a standalone device or together with a variety of syngo via-based software options, which are medical devices in their own rights.
2 syngo share is a medical device of ITH (Innovative Technology for Healthcare GmbH), Innsbruck. syngo share is currently available only in various European countries. (FDA) Image Sharing & Archiving is only available in the United States.
Common intuitive user interface
Easy to learn, easy to work with

**syngo – Intuitive and easy to learn**

By sourcing all elements of your radiological workflow from Siemens, you benefit from an end-to-end solution with a common user interface. As all imaging applications and modalities share the same look and feel, you enjoy a seamless user experience. And because you only need to learn to use one interface concept for all applications, you save time on training.

**syngo.plaza >> Ultimate potential of syngo**
Seamlessly connected hospital IT

syngo.plaza integrates seamlessly with the syngo platform and Siemens modalities, delivering an end-to-end imaging solution. This means you benefit from rapid and smooth data exchange, accelerating workflows and enhancing patient care. And thanks to No-click integration with syngo.via, you can access a wide range of clinical applications through the same intuitive user interface.
The flexible *syngo*.plaza system can be seamlessly integrated into your existing IT infrastructure. Rapid and smooth data exchange between *syngo*.plaza and other *syngo* products boosts the efficiency of your workflow and supports excellent patient care. Working with standards such as HL7 and DICOM and supporting common IHE profiles, *syngo*.plaza is well placed to meet the requirements of your specific radiology environment.

*syngo*.plaza >> **Ultimate potential of *syngo***
Seamlessly connected hospital IT

Automatic launch of syngo.via

syngo.plaza seamlessly integrates with syngo.via\(^1\), the 3D routine and advanced reading solution – providing access to a wide range of clinical applications, including post-processing of 3D and 4D images.

After you select a data set, syngo.plaza can trigger processing of 3D/4D images and further workflow support in syngo.via. And thanks to seamless No-click integration, syngo.via can be automatically launched directly from syngo.plaza. When opening a case, images are prepared and presented in the application, sorted in the preferred viewing layout, and pre-processed in line with requirements.

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syngo.plaza >> Ultimate potential of syngo
Seamlessly connected hospital IT

Automatic launch of syngo.via

The combination of syngo.plaza and syngo.via allows you to perform 2D, 3D, and 4D reading from a single workplace.
Convenient single-vendor solution

By deploying syngo.plaza in conjunction with other syngo products and Siemens imaging equipment, you benefit from a single-vendor solution of superior quality. And with Siemens as your one-stop partner, you are guaranteed exceptional service and end-to-end support for your workflows – protecting your investment and giving you peace of mind.
Good relationships are built on trust. Our long tradition as a technology leader and our unparalleled customer service make Siemens the trusted partner of choice for your radiology systems. We provide you with a tangible competitive advantage, and offer solid long-term returns.

By supporting high-throughput reading and addressing a broad spectrum of clinical applications, syngo.plaza enhances quality and productivity in healthcare. The system’s modular design and its architecture support future growth, protecting your investment.
At Siemens, systems and services go hand in hand. When working with digital solutions, seamless workflows are vital – you need complete dependability. Siemens’ proactive service solutions give you that peace of mind, helping you increase system availability and reliability, and boost workflow efficiency. Additional support comes in the form of hands-on training sessions, workshops, further education, and much more.

Whether you have a problem with software, applications, or IT infrastructure – your syngo.plaza service agreement means comprehensive one-stop support, at a time that suits you.
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