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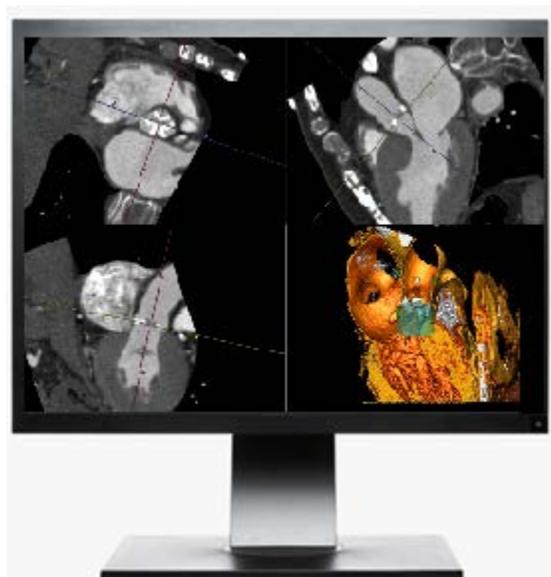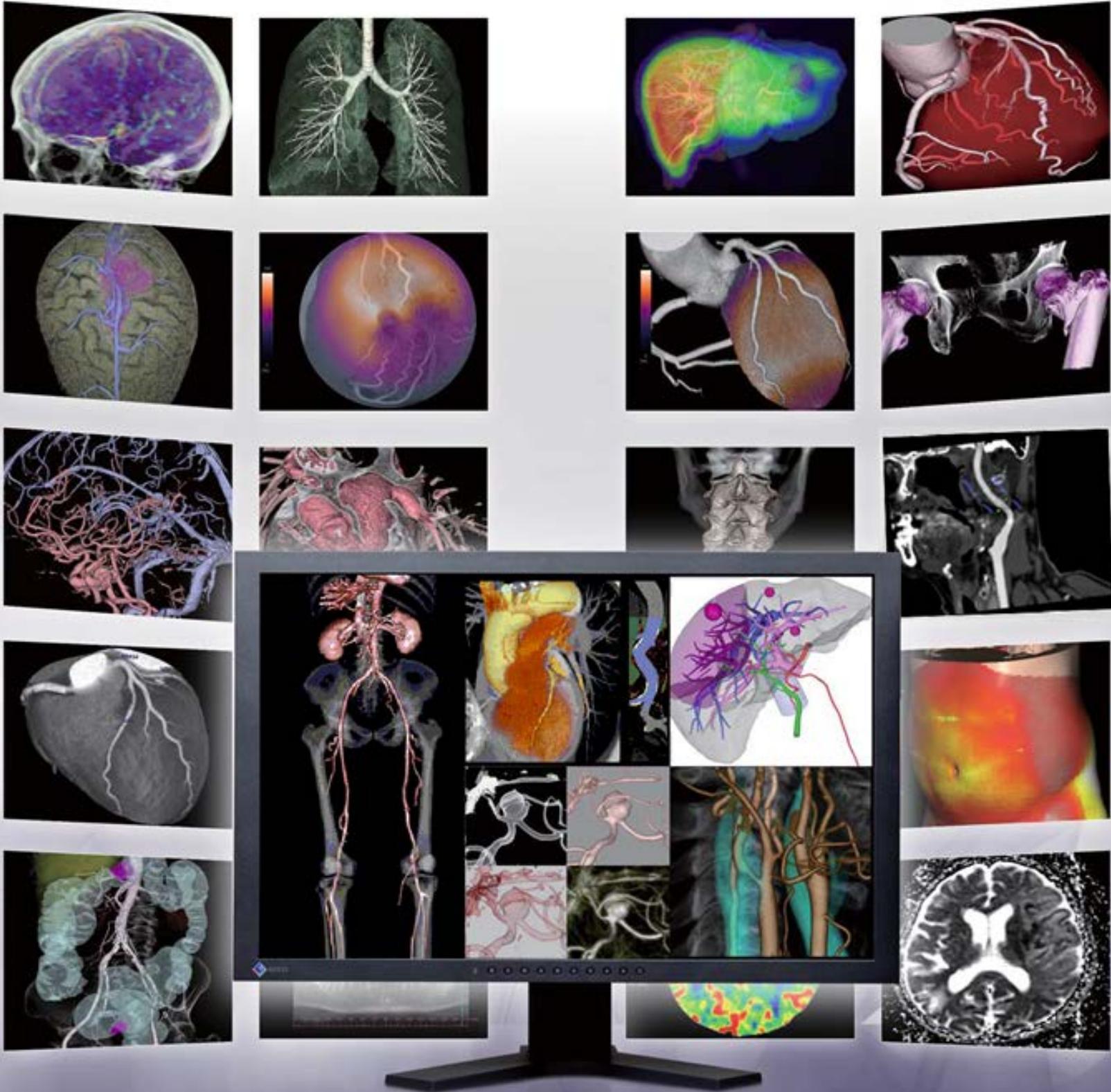
FUJIFILM Medical Systems U.S.A., Inc.

SYNAPSE®
3D

Configuration Options
Version 4

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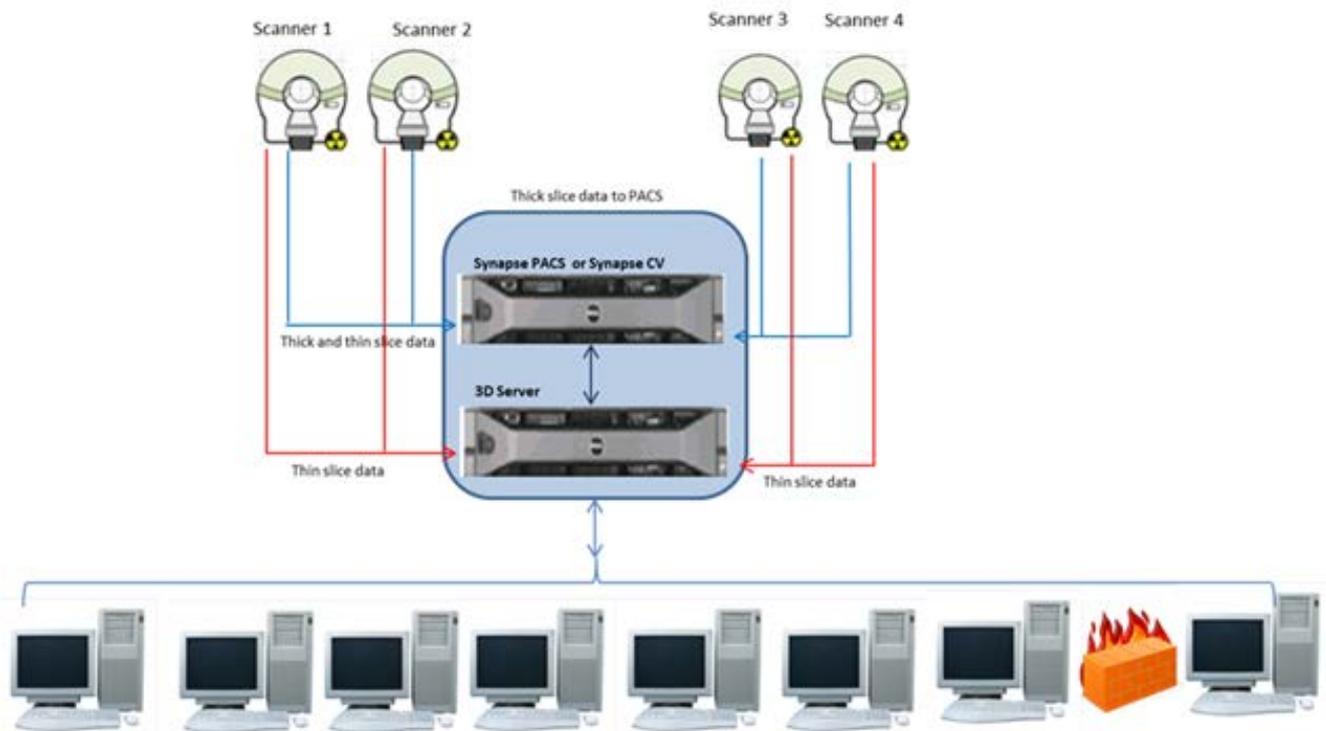
One-click access from Synapse® PACS

Eliminate the need to access your advanced diagnostic tools from a separate workstation or with a separate logon.

Whether you are in-house or working remotely, full integration with Synapse PACS and Synapse®Cardiovascular means one-click access from any Synapse client.

Because your patient list is synchronized with Synapse PACS, it is always up-to-date, always accurate and relevant comparison data is at your fingertips.
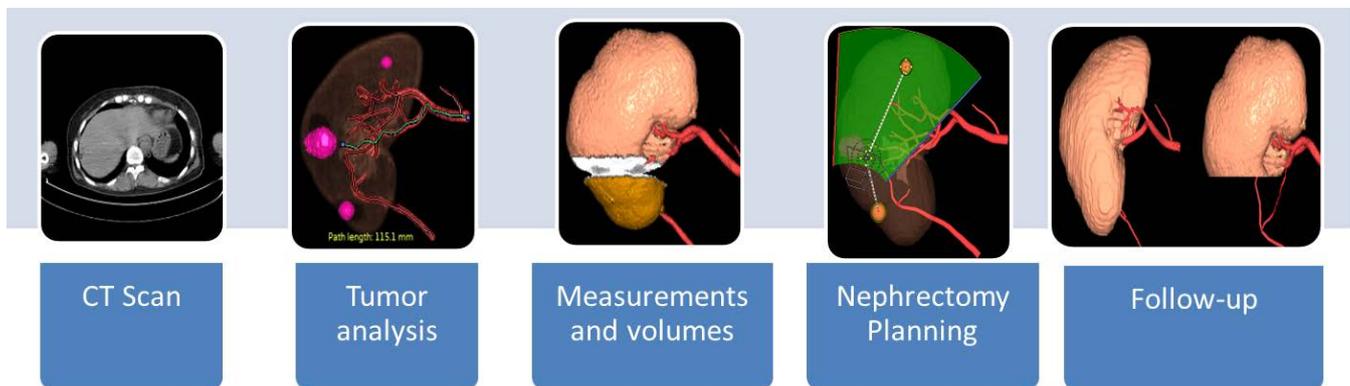
Accessibility

In today's busy healthcare environment doctors need software that is accessible by multiple hospital and clinic departments. By offering configurations and networking options, authorities and privileges for software security, powerful and flexible clinical applications, and snapshot workflow technology that eliminates redundancies, Synapse 3D is truly advancing patient care today.

Example 1: The radiologist is able to measure tumors and provide kidney volumes to the referring physician and surgeons. The surgeon is able to continue with a workflow snapshot and perform surgical planning without any additional radiation to the patient. The radiologist is able to synchronize follow-up studies to prior studies for fast and accurate diagnosis.

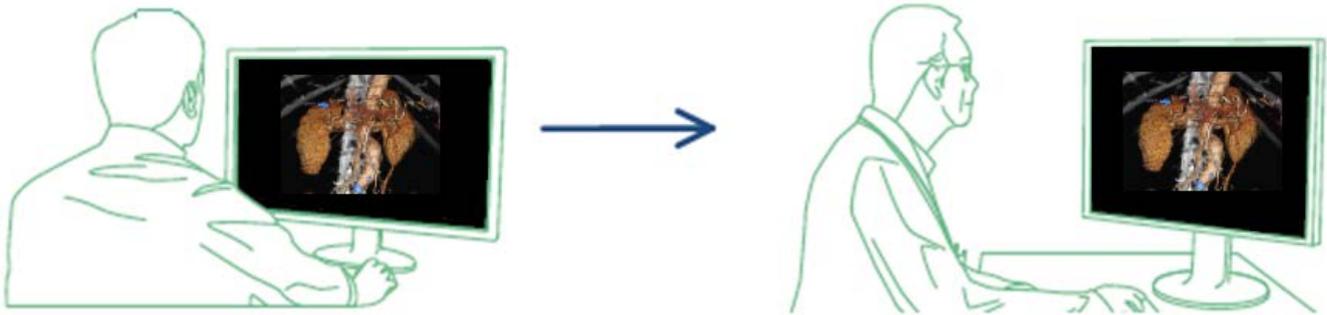| CT Scan | Tumor analysis | Measurements and volumes | Nephrectomy Planning | Follow-up |

Example 2: A little girl presented with a pencil through the eye; the surgeon needed to know immediately if invasive surgery was required. The radiologist was able to log into Synapse 3D remotely and quickly analyze that the pencil did pierce the brain, but there were no significant vascular injuries. Therefore, the surgeon was able to pull the pencil saving the child from invasive surgery (images courtesy Children's Hospital Boston)

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3D Core Lab

Access full-feature applications from any PC using thin-client technology. In busy departments, 3D technologists are able to process one study after another, saving images and workflows directly to PACS. From a PACS worklist, the radiologist is able to continue workflows, advancing the diagnostic study without redundant processing effort saving valuable time and resources.
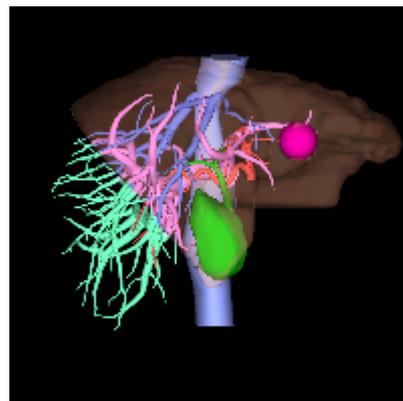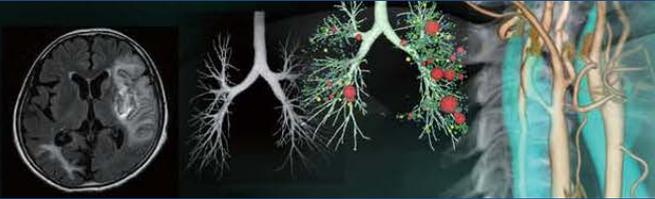

Research Laboratory

Synapse 3D is a great solution for research departments looking for data access, powerful application tools and archive option. From Synapse 3D, researchers are able to pull data from data sources (such as Synapse PACS), analyze data using powerful and flexible options, export images, movies or data and archive to databases via DICOM send. Moreover, because they can save their workflow using Snapshot technology, researchers are able to save valuable time in future analysis.

Surgery

Synapse 3D offers state-of-the-art clinical applications that are precise, fast and accurate. Surgeons are able to access software and workflow snapshots through thin-client terminal for surgical planning. This is useful for liver/abdominal surgery, oral and maxillofacial surgery, and cardiovascular surgery.

Zero-Client Terminals
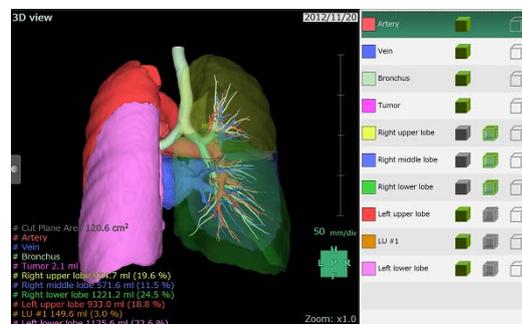
Additional access with no additional hardware

Share Synapse 3D snapshots of any clinical application with referring physicians, surgeons, and patients using mobile devices. Because zero client terminals use the same rendering server as thin-client terminals, additional servers are not required, depending upon usage.

Patient Education

Referring doctors and surgeons can share volume rendered images to help explain complex procedures to patients prior to treatment or surgery, leading to increased patient satisfaction.
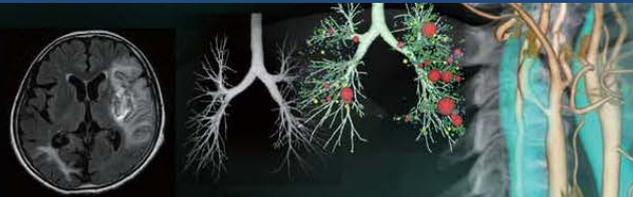
Collaboration

Simple UI, yet powerfully fast allows streamlined clinical collaboration.

Surgical Confidence

From the surgical monitors, surgeons are now able to view, rotate and measure for quick image confirmation.

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Technical Requirements

Server-Client

Server	Recommended Requirements	Minimum Requirements
OS	Microsoft® Windows Server® 2012 R2 Std Ed (x64)	Microsoft® Windows Server® 2008 R2 Enterprise Ed (x64) for upgrades
CPU	Intel® Xeon® processor E5-2630 v2 2.6GHz or greater, 2 CPU's or more	Quad-core Intel® Xeon® processor 2.0GHz or greater, 2 CPU's or more
Main Memory	64GB	
HDD	SAS 10000rpm	SATA 7200rpm
	For OS and software: 80GB or greater For setting: 100GB or greater For images, depends on storage needs	
Network Adaptor	1000BASE-T or faster	100BASE-T
USB	1 port	
Graphic	VRAM: 1.0GB or more DirectX 11 is required	VRAM: 512MB DirectX 11 is required
Monitor	SXGA (1280*1024) or larger Single screen	
Client	Recommended Requirements	Minimum Requirements
OS	Microsoft® Windows 8 (x64)	Microsoft Windows 8 (x64) Microsoft Windows 7 Professional (x86, x64) SP1 Microsoft Windows Vista B
CPU	Intel® Core™ (5-4570) CPU 3.2GHz or greater	Intel® Core2Duo CPU 2.0GHx or greater
Main Memory	4GB or more	1GB
HDD	For OS and software: 80GB or greater	
Network Adaptor	1000BASE-T or faster	100BASE-T
Graphic	VRAM: 512MB or more	VRAM:512MB
Monitor	SXGA (1280*1024), UXGA (1600*1200), WUXGA (1920*1200) Single or dual screen	

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Technical Requirements

Tablet Client

Client	Recommended Requirements	Minimum Requirements
OS	Microsoft® Windows 8 Pro(x86, x64) Microsoft® Windows 8 (x86, x64) iOS 6.0 or later Android 4.1.1 or later	Microsoft® Windows 8 Pro(x86, x64) Microsoft® Windows 8 (x86, x64) Microsoft® Windows 8 RT iOS 6.0 or later Android 4.0 or later
CPU	Intel® Atom™ Z2760 CPT 1.8GHz or greater Intel®Atom™ 1.8 GHz or greater for Windows Apple A5X or greater for iOS NVIDIA Tegra 3 1.6GHz or greater for Android	Intel® CPU 1.6GHz or greater Apple A5 or greater for iOS NVIDIA Tegra 3 1.0GHz or greater for Android
Web Browser	IE 10 for Windows Sarari for iOS Google chrome for Android	
Main Memory	2GB or more	1GB
HDD	For OS and software: 64GB or greater	16GB or greater
Wireless LAN	IEEE802.11a/b/g/n Wireless LAN	IEEE802.11a/b/g/n Wireless LAN
Monitor	2048x1536, 1920x1080, 1280x800, 1024x768	1024x768

Desktop Workstation

Stand Alone	Recommended Requirements	Minimum Requirements
OS	Microsoft® Windows 8 Pro (x64)	
CPU	Intel® Xeon® processor E5-2630 v2 2.6GHz or greater, 2 CPU's or more	Intel® Xeon® processor E5-2630 v2 2.6GHz, 2 CPU
Main Memory	16GB	
HDD	1TB SATA 6.0Gb/s NCQ HDD (7200rpm) RAID 1	500GB SATA 6.0Gb/s NCQ HDD (7200rpm) RAID 1
Network Adaptor	1000BASE-T or faster	100BASE-T
USB	1 port	
Graphic	VRAM: 1.0GB or more DirectX 11 is required	VRAM: 512MB DirectX 11 is required
Monitor	SXGA (1280*1024), UXGA (1600*1200), WUXGA (1920*1200) Single or dual screen	

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For more information, or to schedule a demonstration, please contact your Fujifilm representative by calling 1-866-879-0006.

FUJIFILM Medical Systems U.S.A., Inc.

Corporate Headquarters

419 West Avenue
Stamford, CT 06902-6348
www.fujimed.com