

SNTRYDICOM

Vendor Independent PACS Archive Solution

SntryDICOM is a vendor Independent PACS archive solution that uses the DICOM standard to write images and study information from any modality to a storage technology neutral archive. Modalities such as CR, DR, MRI, CT, PET/CT, Ultrasound and Mammography can send studies directly to SntryDICOM for archiving to magnetic disk and/or removable media such as tape and optical storage. SntryDICOM works with all DICOM 3.0 PACS solutions from leading providers such as GE, Agfa, Siemens, Philips, Fuji, McKesson and Carestream.

Sharing and Continuity

SntryDICOM allows multiple PACS from different vendors to share the same DICOM archive, dramatically reducing administration and capital expense. SntryDICOM helps hospital and clinics consolidate their PACS data into a highly efficient single central archive. This strategy can greatly reduce or even eliminate the need for expensive and time consuming data migration when adding new PACS vendors or switching from one vendor to another. All image and study information is archived to SntryDICOM using a non-proprietary DICOM format giving healthcare facilities much greater archive continuity in a constantly changing PACS environment.

Flexibility

To ensure maximum archive flexibility, SntryDICOM provides two system interfaces. The first is a DICOM Storage Interface to receive and archive image and study information directly from an unlimited number of modalities and diagnostic workstations. The second is a standard File Storage Interface which can be used by any RIS or HIS system for the archival storage of documents and records. These two interfaces enable a single archive solution that can be used for both digital images, as well as patient records.

Enterprise Architecture

Unlike most PACS solutions that support only RAID based magnetic disk storage, SntryDICOM offers disk, tape and optical technology options that can be mixed and matched to meet the performance, longevity and budget of each individual facility. Using SntryDICOM, studies are automatically written to archive media in a tape or optical library while newly created or pre-fetched studies are also retained on fast magnetic disk. This blend of technologies provides the most secure yet responsive archive solution available. The enterprise class features of SntryDICOM also provide automated data copy options for onsite or offsite storage, and dynamic site mirroring for cost-effective disaster recovery.

3-2-1 Archive and Data Protection Best Practice



QStar's 20 year pedigree provides a depth of storage management expertise that cannot be match by other providers. One example is QStar's endorsement of the 3-2-1 Archive and Data Protection Best Practice. This Best Practice calls for the retention of at least 3 copies of all critical data, employing 2 different types of storage technology, with a minimum of 1 copy off site on removable media. The 3-2-1 Archive Best Practice is fully supported through the SntryDICOM platform and offers a highly resilient and cost effective archive strategy that eliminates costly and unreliable tape backup and recovery that is essential for PACS environments using only RAID magnetic disk storage.

SntryDICOM Key Benefits

- › Vendor independent PACS archive
- › Storage technology neutral archive platform
- › Supports multiple concurrent PACS vendors
- › Integrates with all DICOM 3.0 compliant modalities
- › Compatible with most DICOM compliant viewers
- › Provides unlimited storage capacity expansion
- › Supports magnetic disk, tape and optical storage technologies
- › Supports online and offline media
- › Provides both DICOM image and file archive interfaces
- › Provides site mirroring options for cost-effective disaster recovery
- › Web-viewer option enables remote archive search and viewing



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Compatibility

SntryDICOM offers a DICOM Storage Class Server incorporating SCP and SCU (Service Class Provider and Service Class User). All DICOM 3.0 compliant modalities can archive data directly to SntryDICOM where studies are archived on the storage media that is most appropriate for the unique needs of each healthcare facility.



QDCM-2100

QDCM-6100

SYSTEM FEATURES		
Capacity	<ul style="list-style-type: none"> • 1 to 4TB raw storage 	<ul style="list-style-type: none"> • 2 to 96TB raw storage
Drive	<ul style="list-style-type: none"> • Max 4 drives (hot swappable) 	<ul style="list-style-type: none"> • Max 6 drives (hot swappable)
Model #	<ul style="list-style-type: none"> • QDCM – 2100/01: 1TB (2 x 500GB) • QDCM – 2100/03: 2TB (2 x 1TB) • QDCM – 2100/04: 4TB (4 x 1TB) 	<ul style="list-style-type: none"> • QDCM – 6100/01: 2TB (4 x 500GB) • QDCM – 6100/02: 3TB (6 x 500GB) • QDCM – 6100/03: 4TB (4 x 1TB) • QDCM – 6100/04: 6TB (6 x 1TB)
RAID	<ul style="list-style-type: none"> • RAID 1 or 5 (PERC 6/i controller) 	<ul style="list-style-type: none"> • RAID 5 (PERC 6/i controller)
Built-in Storage	<ul style="list-style-type: none"> • DVD ROM 	<ul style="list-style-type: none"> • DVD ROM
Setup and Configuration	<ul style="list-style-type: none"> • Web Based user interface for system administration 	<ul style="list-style-type: none"> • Web Based user interface for system administration
Storage Management	<ul style="list-style-type: none"> • Web Based tiered storage management • Integrated support on, near and off line management • Policy based data retention and deletion 	<ul style="list-style-type: none"> • Web Based tiered storage management • Integrated support for on, near, and off line data management • Policy based data retention and deletion
Network Connection	<ul style="list-style-type: none"> • Embedded Dual-port Broadcom 5709 Gigabit Ethernet • Automatic IP address assignment • Supports DHCP, ARP 	<ul style="list-style-type: none"> • Four embedded Broadcom 5809C Gigabit Ethernet NIC with failover and load balancing • Automatic IP address assignment • Supports DHCP, ARP
Interface 5 PCI slots	<ul style="list-style-type: none"> • iSCSI support • Adaptec 29320 SCSI PCI Express Adapter • 1 PCIe x 16 (True x16, Gen2), 1 SAS 6/iR 	<ul style="list-style-type: none"> • Up to 6 expansion storage units with 15 drives (hot swap) • Fibre card (optional) • iSCSI support • Adaptec 29320 SCSI PCI Express Adapter • 2 PCIe x8 + 2 PCIe x4 G2
CPU	<ul style="list-style-type: none"> • Up to 2 Quad-Core Intel® Xeon® Processor 5500 Series 	<ul style="list-style-type: none"> • Up to 2 Quad-Core Intel® Xeon® 5500 Processor Series
RAM	<ul style="list-style-type: none"> • 2GB upgradable to 64GB DDR RAM 	<ul style="list-style-type: none"> • 2GB upgradable to 144GB DDR RAM
Graphics	<ul style="list-style-type: none"> • Matrox G200 	<ul style="list-style-type: none"> • Matrox G200
SPECIFICATIONS		
Built in Support for Archive Storage	<ul style="list-style-type: none"> • 3TB or 5.5TB (optionally expandable) 	<ul style="list-style-type: none"> • 5.5TB (optionally expandable)
Agency Certifications	<ul style="list-style-type: none"> • CAN/CSA C22.2 No. 60950-1, CSAus, FCC Class A, CE IHE, VCCI, BSMI, C-Tick Class A, SABS, Class A, CCC Class A, MIC Class A, UL 60950-1, EN 60950-1, IEC 60950-1 	<ul style="list-style-type: none"> • CAN/CSA C22.2 No. 60950-1, CSAus, FCC Class A, CE IHE, VCCI, BSMI, C-Tick Class A, SABS, Class A, CCC Class A, MIC Class A, UL 60950-1, EN 60950-1, IEC 60950-1
Physical	<ul style="list-style-type: none"> • 1U Rack-mountable chassis 	<ul style="list-style-type: none"> • 2U Rack-mountable chassis
Power	<ul style="list-style-type: none"> • Non-Redundant, 480W • Optional Redundant, 500W 	<ul style="list-style-type: none"> • Energy Smart – Two hot-plug high-efficient 570W PSU
Operating Environment	<ul style="list-style-type: none"> • Operating Temperature: 10° C to 35° C (50° F to 95° F) • Operating Relative Humidity: 20% to 80% non-condensing (twmax=29C) • Operating Vibration: 0.26G at 5Hz to 350Hz for 2 minutes • Operating Shock: 1 shock pulse of 41G for up to 2ms • Operating Altitude: -16 to 3,048m (-50 ft to 10,000 ft) 	<ul style="list-style-type: none"> • Operating Temperature: 10° C to 35° C (50° F to 95° F) • Operating Relative Humidity: 20% to 80% non-condensing (twmax=29C) • Operating Vibration: 0.26G at 5Hz to 350Hz for 2minutes • Operating Shock: 1 shock pulse of 41G for up to 2ms • Operating Altitude: -16 to 3,048m (-50 ft to 10,000 ft)
Non-operating Environment	<ul style="list-style-type: none"> • Storage Temperature: -40° C to 65° C (-40° F to 149° F) • Storage Relative Humidity: 5% to 95% non-condensing (twmax=38C) • Maximum humidity gradient: 10% per hour, operational and non-operational conditions. • Storage Vibration: 1.54Grms Random Vibration at 10Hz to 250Hz for 15 minutes • Storage Shock: 6 shock pulses of 71G for up to 2ms • Storage Altitude: -16m to 10,600m (-50 ft to 35,000 ft) 	<ul style="list-style-type: none"> • Storage Temperature: -40° C to 65° C (-40° F to 149° F) • Storage Relative Humidity: 5% to 95% non-condensing (twmax=38C) • Maximum humidity gradient: 10% per hour, operational and non-operational conditions. • Storage Vibration: 1.54Grms Random Vibration at 10Hz to 250Hz for 15 minutes • Storage Shock: 6 shock pulses of 71G for up to 2ms • Storage Altitude: -16m to 10,600m (-50 ft to 35,000 ft)



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