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 store and retrieve 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 store and retrieve
- Neutral storage technology 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
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. All DICOM 3.0 compliant PACS can archive and retrieve data from multiple systems directly to/from SntryDICOM, enabling studies to be archived on the storage media that is most appropriate for the unique needs of each healthcare facility.

SYSTEM FEATURES

**QDCM-2100**
- 1 to 4TB raw storage
- Max 4 drives (hot swappable)

**QDCM-6100**
- 2 to 96TB raw storage
- Max 6 drives (hot swappable)

**Model #**
- QDCM – 2100/01: 1TB (2 x 500GB)
- QDCM – 2100/03: 2TB (2 x 1TB)
- QDCM – 2100/04: 4TB (4 x 1TB)

**RAID**
- RAID 1 or 5 (PERC 6/i controller)

**Built-in Storage**
- DVD ROM

**Storage Management**
- Web Based tiered storage management
- Integrated support on, near and off line management
- Policy based data retention and deletion

**Network Connection**
- Embedded Dual-ported Broadcom 5709 Gigabit Ethernet
- Automatic IP address assignment
- Supports DHCP, ARP

**Interface 5 PCI slots**
- iSCSI support
- Adapter: 29320 SCSI PCI Express Adapter
- 1 PCIe x16 (True x16, Gen2), 1 SAS 6/IR
- Up to 6 expansion storage units with 15 drives (hot swap)
- fibre card (optional)
- iSCSI support
- Adapter: 29320 SCSI PCI Express Adapter
- 2 PCIe x8 + 2 PCIe x4 G2

**CPU**
- Up to 2 Quad-Core Intel® Xeon® Processor 5500 Series

**RAM**
- 2GB upgradable to 64GB DDR RAM
- 2GB upgradable to 144GB DDR RAM

**Graphics**
- Matrox G200

**SPECIFICATIONS**

**Built in Support for Archive Storage**
- 3TB or 5.5TB (optionally expandable)
- 5.5TB (optionally expandable)

**Agency Certifications**
- 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
- 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**
- 1U Rack-mountable chassis
- 2U Rack-mountable chassis

**Power**
- Non-Redundant, 480W
- Optional Redundant, 500W
- Energy Smart – Two hot-plug high-efficient 570W PSU

**Operating Environment**
- Operating Temperature: 10º C to 35º C (50º F to 95º 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)

**Non-operating Environment**
- Storage Temperature: -40º C to 65º C (-40º F to 149º F)
- Storage Relative Humidity: 5% to 95% non-condensing (twmax = 38C)
- Maximum humidity gradient: 10% per hour, operational and non-operational conditions.
- Storage Vibration: 1.5G rms 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)