

## OncoView Image management and storage solution

The OncoView™ image management and storage solution combines the storage capability of an enterprise PACS with features designed specifically to support today's image-based oncology programs. OncoView can store diagnostic, planning, and pre-treatment setup images, as well as the associated DICOM RT layers that are crucial to making those images informative, meaningful components to the patient's oncology treatment record. OncoView's open architecture using industry standards DICOM and HL7 enables connectivity to an enterprise PACS.

### Feature overview

- > HL7- and DICOM-based communication for use with third-party information systems, treatment planning systems, and PACS
- > Query and view results for one or multiple patients
- > Thin client multi-modality image viewing
- > View RT structure sets overlaid with images
- > View plan summaries and patient documents
- > Import patient information from external media such as CDs
- > Targeted crawler to retrieve information from enterprise PACS
- > Rule-based broker to parse, recombine, and route select image data to enterprise PACS
- > Fault tolerant storage (RAID 6)
- > Application-aware storage
- > Online checksums, snapshots, and non-disruptive storage expansion



### Reliable and scalable storage management

OncoView incorporates proven technology for reliable, scalable storage management. It includes online checksums, snapshots, and non-disruptive storage expansion. A rule-based broker is used to parse, recombine, and route select image data to enterprise PACS. The targeted crawler retrieves patient information from other PACS devices. HIPAA-compliant access to the stored data, continuous monitoring, auditing, and role-based authentication ensure the information is secure at all times.

### Comprehensive image viewer

OncoView's image viewer sets it apart from conventional radiology PACS, most of which are incapable of storing or displaying DICOM RT objects. OncoView combines images from any source relevant to oncology (e.g., CT, PET, MR, fMR, ultrasound), and lets you view them side-by-side. Features include rigid image registration and fusion of diagnostic images with treatment planning images. The incorporation of standard uptake value (SUV) measurements for PET imaging allows clinicians to make an objective assessment of changes in the biologic activity of a patient's cancer over time.

# An oncology-specific approach to image management and storage

## Specifications

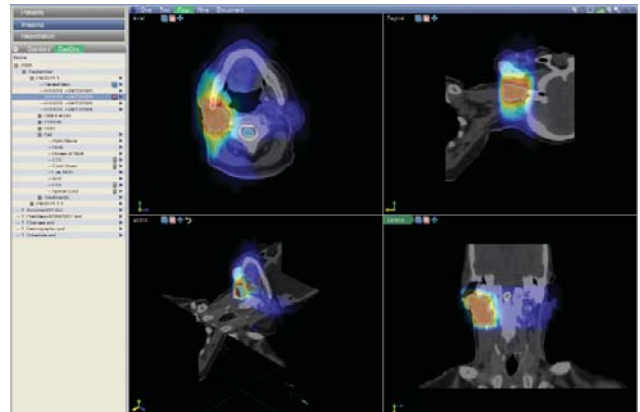
### Storage management

Please refer to the OncoView DICOM conformance statement located on [www.varian.com](http://www.varian.com) for additional detailed information on DICOM connectivity and storage.

- Provides object access to any image viewer which supports the relevant DICOM standards, query/retrieve
- Store to conventional PACS
- Define rules for data objects flow to different devices based on criteria such as modality, IOD or SOP class
- Store RT objects
- Store information to multiple locations
- Archive patient records from the ARIA® oncology information system into OncoView
- Restore patients' records from OncoView back to ARIA
- Crawl an enterprise PACS on a configurable periodic schedule to query information for a given list of patients
- Provide management user interfaces via HTTP
- Provides the capabilities of a scalable journaled file system to handle multiple terabytes of data
- Insulated view of and access to the consolidated storage from various protocols used to access the underlying storage, e.g., via UNC path
- Provides non-disruptive addition and removal/maintenance of storage devices
- Provides audit logging for HIPAA compliance
- Application aware storage which provides continuous data protection
- Event-based and scheduled snapshots for quick recovery
- Audit logging for HIPAA compliance

### Viewer

- View by radiology or radiation oncology hierarchy
- RT image viewing



- MV, CBCT, kV/kV
- Secondary capture image
- Multi-modality image viewing of 2D/3D images
- Resize window
- Image window/level
- Image pan/zoom
- Registration of images using spatial registration information
- Switch between displayed image and any image from the list of registered image data sets
- Configurable layouts with 2D slice view and/or MPR display
- Display image parameters
- Manual and automatic rigid image registration
- Overlay structure sets on images
- View RT plan summary
- View RT treatment record
- Display RT contours in MPR
- Visualization of RT dose blended with planning CT and RT structures

*The part of OncoView image management and storage solution subject to 21 CFR Sec. 892.2050 is manufactured by Velocity Medical Solutions.*

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