

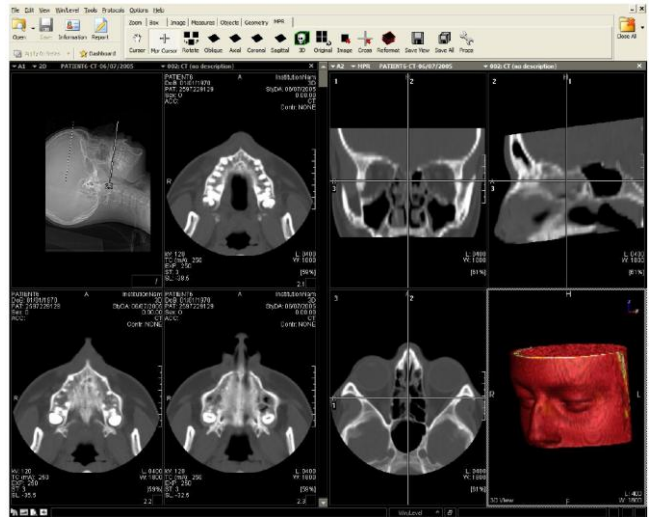
MedStation

The reporting workstation for sharing diagnostic imaging

MedStation 4 is a multimodal reporting application for displaying diagnostic images from various sources, including radiology, cardiology and endoscopy, etc.

MedStation 4 is available in three different versions:

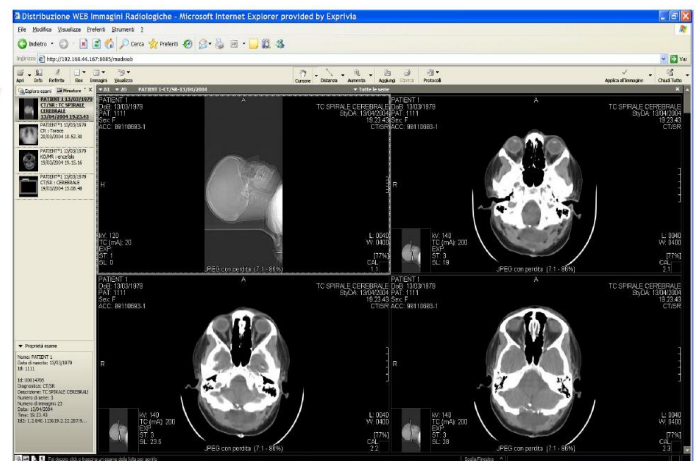
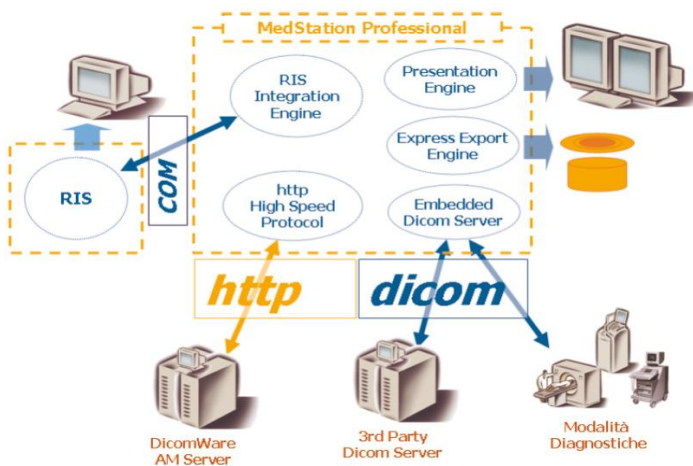
- ✓ **MedStation Professional:** is the most complete version, aimed at Radiology departments; it supports multi-monitor configurations and synchronised integration with RIS systems.
- ✓ **MedStation WEB:** this version is aimed at web-based distribution of images to clinical units, specialists and external consultants. Accessible via Internet Explorer, it requires no specialist devices, nor client-side installations.
- ✓ **Express:** version for patient CD/DVD, starts up automatically when a CD/DVD is inserted into the drive, similar functions to MedStation Web.



MedStation Professional is a Web Application, i.e. a client which communicates with the DicomWare server via HTTP protocol.

MedStation Professional has an integrated DICOM server for receiving images directly from diagnostic services and can be configured as a client for any other DICOM server.

It also provides very user-friendly synchronised integration with RIS systems and can export images and reports to local storage drives or CDs. The huge range of its presentation and image-processing functions, its versatility in terms of configuration and integration, and its lightning-fast access to images make MedStation Professional the ideal choice as a PACS and teleradiology workstation.



Main Features

Management

- ✓ exports images to standard formats (JPEG, BMP, TIFF etc.);
- ✓ writes test results and DSR reports onto CD/DVD with an integrated viewer;
- ✓ integrated with the most widespread office and slide production software;
- ✓ powerful print composition environment for printing images on film and paper;
- ✓ synchronised two-way integration with RIS systems;
- ✓ transmits tests to/from workstations/remote servers (teleradiology) with configurable compression factors;
- ✓ global queries: transparent access to several storage servers distributed across local or geographical networks.

Reporting

- ✓ reports can be created in Structured Dicom Report format;
- ✓ support for the definition of structures, compilation of SDR reports and synchronisation with RIS reporting systems;
- ✓ semi-automatic generations of key images and measurements in SDR format;
- ✓ integration of voice recognition technology reporting tool from the PhoneidoS range.

Presentation

- ✓ hanging protocols customisable by mode, anatomical region, study description, referring physician, etc.;
- ✓ change size of user interface to adapt to ultra high resolution monitors;
- ✓ immediate display of images as they are received from the communications network;
- ✓ cine-loop display with speed adjustment.

Imaging

- ✓ Win/Level primitives, WL preset, zoom, pan, rotation, mirroring, lens, measurements of angles, distances, ellipses;
- ✓ definition of ROI and notes, interactive calibration, equalisation filters, extrapolation of non-linear curves, various image-enhancement algorithms, detailed display of greytone values and histograms, etc.;
- ✓ serial display: cineloop environment for temporary sequences, specialised views for spatial series, scanogram display, localizer, 3D cursor, stack view for CT/MRI/PET;
- ✓ integrated 3D environment with MPR/MIP and 3D reconstruction, segmentation and bone removal, W/L 3D with system presets for selected anatomical sites (released in Q307), cardiac measurements such as M-mode, pressure gradients and volumetric calculation for EF measurements.

MedStation Web, by contrast, runs directly inside an Internet Explorer browser window and directly accesses the web server integrated in the DicomWare storage server. It requires no client-side installation and can be accessed by HIS systems with a simple URL call (HIS Integration).

Apart from a few features exclusive to professional use by Radiology departments (multimonitor support, integrated DICOM server, export to CD, synchronization with RIS), MedStation Web provides all the functional features of MedStation Professional, including hanging protocols, structured DICOM reports, cine-loop functions and comparison studies, using the same interface and architecture as the Professional version.