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# synedra View Professional

Feature Overview

Version 18 "Apollon"

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synedra information technologies

[www.synedra.com](http://www.synedra.com)

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## 1. Feature Overview

### 1.1. General features

- Available in German, English, French, Russian and Turkish
- Documentation available in German, English, French
- Supported operating systems: Windows 7, Windows 7 x64, Windows 10 Windows 10 x64, OS X x64
- Can be run as a native 64-bit application; for an optimized performance and quick loading of big studies > 4GB
- Integration of synedra View Professional with RIS, HIS, or web applications
- Browser integration of archives via a URL call
- Users may create a local catalog, thus enabling them to access data without accessing the archive
- Search function: Search in local catalog and/or in synedra Archive via a configurable web portal; easy search for previous examinations of a patient
- Options for the export of data to local media:
  - Data can be anonymized
  - Export of one image out of n, marked images

- Convenient production of patient CDs/DVDs, optionally with synedra View Personal; support of DICOMDIR and possibility to anonymize data
- Integrated file and CD browser with preview function; optional web browser
- Keyboard shortcuts for an efficient access to tools and functions for key users
- Functions can be assigned individually to mouse keys
- Numerous possibilities for format conversions of images and videos; creation of conversion templates
- Easy compilation of key images to print on film (or paper), as PDF or as a new DICOM series

## 1.2. Diagnostic imaging, image viewing and editing

- Direct display of all common image formats without the need to change the application
- Integrated PDF viewer with many features, including search, page preview, rotate, print
- Integrated media player based on ffmpeg providing extensive support of different video formats
- DICOM display:
  - All DICOM image types, including x-ray (CR), MR, CT, nuclear medicine, PET, angiography, fluoroscopy
  - Data embedded in DICOM, including MPEG2, MPEG4, PDF
  - DICOM Structured Reports
  - DICOM ECG data
- Support of HL7 CDA
- Support of image and multimedia file formats, including JPEG, JPEG 2000, Photoshop, TIFF, PNG, BMP (Windows Bitmap), XPM, PNM, GIF
- Single- and multi-monitor set-ups:
  - Standard clinical application on standard PCs with 1 monitor on each workstation in the hospital
  - Workstations for radiological image interpretation usually consist of three monitors: 1 control monitor and 2 high-resolution monitors (2, 3 or 5 megapixels)
- Specified elements, e.g., presentation states, localizers, can be shown and hidden in the documenttree with a toggle button
- Wide range of image viewing functions, including window, zoom, magnifier, shutter, scroll, rotate, mirror, false colors
- Individually configurable window presets for CT examinations, including bone window, lung window
- Localizer display when scrolling in series of slice images
- Cine Loops: play-back of multiframe sequences (e.g., angiography, nuclear medicine, ultrasound) and series of slice images (e.g., CT, MR) as film

- Synchronize tools for synchronous scrolling, windowing as well as zooming and panning in several series
- Support of multiplanar reconstructions (MPR):
  - Rotation cube for an easy handling of multiplanar reconstructions
  - Support of Thick Slab reconstructions (MinIP, MIP, AVG, MED); users may configure up to three Thick Slab projections
  - Configurable initial view of MPR examinations
  - In the reconstructed view, it is possible to display two topograms (scouts), which inform users about the position of the reconstructed slice
- Specific tools for mammographic image interpretation
- Wide range of measurement tools, including distance, area and angle measurements, freehand and spline measurements, density/gray values measurements
- Image calibration tool; support of different measurement units
- Undo and redo for image editing functions
- Flexible configuration of hanging protocols; specific GUI for the creation and adaptation of hanging protocols
- Automated hanging of examinations/series/sequences based on default hanging protocols supplied with synedra View Professional
- Users can adjust the priority and activation of the hanging protocols available
- Configuration of comparative protocols
- Hanging protocols can be activated with buttons and keyboard shortcuts
- Mammo-specific hanging protocols (vertical image alignment and edge orientation)

### 1.3. Integrated special features

- DICOM Query/Retrieve: requests can be made to a DICOM archive or a modality; data can be transferred from this external system to synedra View Professional
- Support of DICOM ECG documents including specific tools (i.e., ECG time measurement, ECG heart rate measurement, ECG tension measurement) and display of interpretation
- DICOM/EXIF Dump: display of the DICOM and EXIF information contained in the image
- Support of punctures (puncture cube):
  - Automatic recognition and display of the puncture cube in CT exams in the MPR view
  - Display of the top and bottom template of the puncture cube
  - Tool for the positioning of the puncture needle
  - Preset window values for an optimized image rendering

## 1.4. Usage and support

synedra View Professional is a class IIb medical device certified to directive 93/42/EEC.

synedra View Professional may be used for medical purposes.

synedra View Professional includes a professional e-mail and telephone support.

synedra View Professional may be used on diagnostic workstations.