



VidiView R4 Client Loader

Release notes

IHE Integrating
the Healthcare
Enterprise



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1. General information

1.1 The VidiView System

The VidiView system is a medical image management system for all types of medical images. It provides the user with an ecosystem for collecting/recording, storing, sharing and reviewing medical images in a workflow efficient manner within the healthcare organization.

The VidiView System consists of three separate parts;

- The **VidiView Controller**, which is responsible for recording the video signals from the connected video devices (such as cameras, x-ray, ultrasound or endoscopic equipment). During recording the controller stores the images on locally till the recording is finished. In live broadcast mode it streams the video to the VidiView Server for re-broadcasting to the VidiView Clients. After a recording is finished the image material is moved to the VidiView Server storage solution, located elsewhere, permanently
- The **VidiView Capture**, which is a mobile application (designed for true mobile devices such as smartphones and tablets) that utilizes the built-in camera unit, touch panel screen and general computing power to capture images and video in medically relevant environments. During recording the images are stored locally but as soon as possible (or when connectivity allows for it) the images material is moved to the VidiView Server storage solution, located elsewhere, permanently.
- The **VidiView Server**, which is responsible for storing the recorded images along with metadata (such as patient information, image information and technical data from the recording). The Server also includes a scheduling module, a database engine for storing metadata in a safe and secure way, a live streaming proxy for re-broadcasting live sessions, a DICOM-interface, a user management module, a logging module, a reporting module, an integration API and a few other modules.
- The **VidiView Client**, which is mainly used for reviewing the images (still and video images), view live broadcasts and document examinations, and;
 - edit the recorded material
 - provide real time human feedback to the user of the VidiView Controller (participating in live in the examination) for support and/or educational purposes
 - work with examinations logistics (planning and scheduling)

1.2 Intended purpose of the product

This software is intended for use within a healthcare environment but is not considered a medical device. Hence is it not regulated under the Medical Device Directive (MDD) and bears no CE-mark. The development is done in coherence with IEC62304, IEC82304-1, IEC62366-1-2 using an ISO13485-based management process for quality and safety assurance purposes.

The VidiView system is intended to be used for medical image management of various kinds. Its major functionality revolves around

- Documenting (recording) images from various image source in the medical environment of the examination/procedure
- Real time distribution of those images inside the local medical environment (the OR/examination room, etc.)
- Real time distribution of those images outside of the local medical environment by the use of network-based infrastructure and existing PC-technology (hardware and software)
- Control (by means of integration) various external equipment located in the medical environment of the examination/procedure/examination. Such equipment could be camera units, medical imaging units, lighting solutions, operating tables etc.
- Storing (saving) images previously documented with the system. This functionality is remotely located and centralized (the VidiView Server) and also relies on the network infrastructure and existing PC-technology (hardware and software)
- Review of images previously documented with the system. Also, this functionality relies on the network infrastructure and existing PC-technology (hardware and software)

All network communication is based on the IP-protocol. All software modules are designed to exist and function on the Microsoft Windows platform. Common technology concepts such as encryption, encoding and decoding, authentication, transmission, etc. are widely used throughout the product and are not the invention nor property of Distributed Medical.

The end user organization should ensure that the physical network infrastructure complies with ISO 80001-1. Specifically, the following parts of the ISO guidelines should be assessed.

- Part 2-1: Step-by-step risk management of medical IT-networks; Practical applications and examples.
- Part 2-2: Guidance for the disclosure and communication of medical device security needs, risks and controls.
- Part 2-3: Guidance for wireless networks.
- Part 2-4: General implementation guidance for healthcare delivery organizations.

1.3 Intended use (regulatory)

English

The intended use for the product is to; record and distribute image material from medical examinations, treatments and procedures carried out by medically authorized personal using the, by the user supplied, existing network infrastructure, as an intermediate, in real time and/or retroactively.

Svenska

Produktens avsedda syfte är att; spela in, lagra och distribuera bildmaterial från medicinska undersökningar, behandlingar och ingrepp utförda av medicinskt behörig personal förmedlat via den av användarens organisation tillgängliga nätverksbaserade infrastruktur, i realtid och/eller retroaktivt.

1.4 Non-intended use

The following use of the product is non-intended and should under no circumstances be the purpose of the system. The below described non-intended use is non-exclusive.

The VidiView system in its current form and revision is not designed to serve as the primary visual aid in diagnose, treatments or analyses in any discipline or school of medical care. It should serve as an extension and expansion of visual aids and imaging products.

The VidiView system must be installed, configured and maintained by authorized personal only. Systems in violations of this condition are subject to regulatory disqualification (temporary or permanent).

Use that is not based on locally compiled routines (explicit for the system) and by trained personal (internally or externally trained) might set the system in a state of regulatory disqualification.

1.5 Purpose of the release notes

This document is intended for trained and technical personnel, such as distributors. The release notes cover new functionality and improvements, and should not be used as an end user manual.

1.6 Disclaimer

Upgrades should only be performed by trained personnel and backups should be available. Distributed Medical AB is not responsible for any loss of data or problems caused by changes in the operating characteristics of the computer hardware or operating system, which are made after the delivery of the software, or for problems that occur as a result of the use of Distributed Medical software in conjunction with non-Distributed Medical software other than the software explicitly covered in this documentation.

2 Release notes Client Loader Version 4.5

2.1 Requirements

- Microsoft Windows 10 32/64-bit operating system or Microsoft Windows 7 32/64-bit operating system
- Microsoft .NET Framework 4.6.1 or newer

2.2 Compatibility

This release is compatible with

- VidiView Server V4.5.3 or later

2.3 Current release

v4.5.1, 2018-12-14

New and improved functionality:

- None

Bug fixes:

- Solved issue with forwarding command line arguments to the VidiView Client

Known issues:

- None

3 Release log history

v4.5.0, 2018-07-25

- The VidiView Client Loader is now a single executable file which does not require any installation on the client computer to work. However, by running the installation program a start menu shortcut is created and it is added to Add/remove programs.
- The client loader default parameter values can be specified, either in the registry or in an .xml file. To create such a file, or to set registry values on a computer – start the client loader with the /defaults switch.
- The client loader will now use the new default port of 443 (https) in all communication with the VidiView server.
- Solved issue with Shift keyboard-key not working in the server name field
- Solved issue with leaking TCP sessions with the server

v4.4.0, 2017-09-01

- The client loader now displays the hostname or IP address in the previously used servers list
- Increased security by validating the identity of the connected VidiView Server. Note! This results in a warning message being displayed if connecting to a server older than V4.4.
- The client loader would sometimes default to a different VidiView Server than the previously used one when starting
- The client loader would download some client package files even if those were not updated

v4.3.0, 2016-09-27

- Support for Microsoft Windows 10 operating system.
- Added support for command line switch /server to select a specific server on startup.
- Solved error when connecting to an explicit IPv6 address.

v4.2.1, 2016-01-13

- If the Active Directory forest contains domains that are slow to respond to queries, or that is not answering at all, the list of available VidiView servers may not populate within the timeout period. This has been improved and the list is now updated for every domain that answers within the timeout period.

v4.2.0, 2015-12-16

- The application checks for necessary registry entries and temporary file folders on startup and enables the user to recreate any missing things.

v4.1.2, 2015-07-07

- Configured interface language is now saved on user level
- The first server in the list is now selected by default, if there is one and no other server has been chosen earlier

v4.1.1, 2014-03-23

- Fixed issue with server duplicates in the drop-down menu

v4.1.0, 2014-03-11

- New user interface design

v4.0.2, 2014-03-11

- Added VidiView Server lookup in trusted AD domains

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- Solved problem with non-aero enabled Windows stations with button click
 - Added Norwegian and Danish translations

v4.0.0, 2013-08-15: Initial release

- Requires VidiView R4 Server 4.0.0 or later
- Initial application release