

Codonics[®] Virtua[™] Operating Software

Release Notes

Version 2.0.1 Release Notes

Summary

Version 2.0.1 software provides a new viewer and corrects defects for the Codonics Virtua Medical Disc Publisher. The software is compatible with all Virtua systems.

This document details only changes from Version 2.0.0 software. If you are upgrading from an older software version, previous Virtua Release Notes can be downloaded from the Codonics web site.

New Features

- ◆ **Support for Siemens *syngo*[®] Imaging XS Viewer.** 2.0.1 software provides support for Siemens *syngo* Imaging XS as an optional DICOM viewer. The addition of this viewer allows existing Siemens modality and PACS customers to generate discs on Virtua that match what they are currently creating on their Siemens equipment. See the Codonics Virtua *syngo* Imaging XS Viewer technical brief (Codonics part number 901-174-001) for details. Contact Codonics Technical Support or your Sales Representative to acquire a feature key that will activate the viewer and installation on the SmartDrive.

NOTE: The Siemens *syngo* XS Viewer will display images properly when a study is sent from a Siemens MagicView 300 PACS system and then recorded by Virtua.

The viewer will NOT display images properly if a study is anonymized, spans discs, stored across multiple associations, stored multiple times to Virtua without being deleted, or a Job Profile `dicomFileExtension` is specified.

Defects Repaired

- ◆ **Software Installation Hang Up in Phase 4.** A fix was implemented to correct an issue where, in certain network situations, a software installation could hang up in Phase 4.

Known Common Issues

This section details common issues with Virtua Version 2.0.1 software that are likely to be experienced by most users.

- ◆ **Print label quality and ink selection setting is only read from default Job Profile.** On standard Virtua models, the `printMode` parameter is currently only supported in the default Job Profile and cannot be changed once the system is running. Any `printMode` settings in other Job Profiles will be ignored. On Virtua XR models, the `printMode` parameter can be set in all Job Profiles and be controlled for each individual job.
- ◆ **Slight loss of performance over time.** To maximize system performance and reliability, it is recommended that the Virtua be rebooted at least every two to three weeks and more often for heavy usage.
- ◆ **Two button presses on Controller are required to shutdown (Virtua XR only).** Press the green power down button twice on the Controller, or shutdown from the user interface.
- ◆ **Flash card reader / USB2 port on front of Controller not supported.** These interfaces might be supported in a future software release.
- ◆ **The system cannot detect the type of media loaded.** The Dashboard media indicators will show which bin is configured for which media. **Only load the media that is configured for each bin.** Loading the wrong kind of media will result in incorrect operation (for example, a DVD disc being labeled as a CD disc). The problem does not occur on Virtua XR.
- ◆ **For Virtua XR, Windows will not recognize the optical drives if the recorder is off at bootup because they are SATA.** Make sure the recorder is ON before turning on the controller.
- ◆ **Studies can be lost or corrupted if a hard power-off occurs.** Loss of power during some operations can result in lost or corrupt data. An uninterruptible power supply and proper shutdown procedure are strongly recommended.
- ◆ **Some system configuration parameters cannot be programmed from the Touch Screen.** Refer to the *Virtua User's Manual* for instructions on configuring Virtua using the SmartDrive.
- ◆ **Green LEDs do not flash when receiving studies.** Green LEDs only flash when recording or printing discs.
- ◆ **Green LED on Controller does not flash during system activity.** Only the LED on the Touch Screen flashes during system activity.

- ◆ **Shutdown does not wait for studies or jobs to complete.** Shutting down the system (in either Shutdown or Reboot modes) does not wait for receiving studies to be completed or for currently recording or printing discs to complete. The system should not be shutdown while studies are being received or while discs are currently recording or printing.
- ◆ **Discs-required counts inaccurate for multi-disc backup jobs.** When multi-disc backup jobs (all studies included in the job will not fit on one disc) are queued, the Discs Required count in the Status Details tab and the “X of Y” discs-recorded count on the Discs tab might contain inaccurate counts. Typically, the count will not increment until the entire set is completed.
- ◆ **Studies / Jobs database capacity is 40 GB.** This typically allows storage of between 400 and 2000 studies before old (recorded) studies are removed to make room for new studies. Larger Studies / Jobs databases may be supported in a future software release.
- ◆ **Compatibility problems with Internet Explorer 7.** There are minor cosmetic problems when remotely connecting with Internet Explorer 7. Internet Explorer 6 is recommended for remote connections to Virtua.
- ◆ **DICOM association limit may be exceeded.** DICOM clients which open many simultaneous associations might exceed Virtua’s limit of 24 simultaneous connections. This can cause the system to stop receiving DICOM jobs, requiring the system to be rebooted.
- ◆ **Unexpected drive-selection pop-up.** In rare cases, a Windows pop-up box will ask the user to indicate which drive is the top one and which is the bottom one. Following the on-screen instructions clears the condition. The problem does not occur on Virtua XR.
- ◆ **Robot Arm Alignment utility failures.** Occasionally, the system gets into a state where the Robotic Arm Alignment utility does not work properly. The problem can normally be cleared by rebooting the system. The problem does not occur on Virtua XR.
- ◆ **Time-remaining indicators for jobs inaccurate if more than one page.** If there is more than one page of jobs queued (eight or more jobs), the time-remaining indicator on the Discs tab will not be accurate on any pages other than the first page. Each page starts the time-estimation over again without accounting for the jobs on the previous page.
- ◆ **Install disc remains in closed drive after software install.** The first startup after a software install closes the drive tray. If another reboot is performed, the installation process repeats. To work around this problem, remove the disc as soon as it ejects (during installation) or manually open the drive and remove the disc after installation is complete.
- ◆ **HTTP 500 errors.** Occasionally attempting to delete a large study or a group of studies results in an HTTP 500 error. The operation normally is successful upon retrying.
- ◆ **Drive Time-out errors when recording DVDs.** Occasionally, a Drive Time-out error will be reported and a disc will be rejected when recording DVDs. If this problem persists, please contact Codonics Technical Support.
- ◆ **Opening cover does not always silence error beep.** If the system is out of only one media (CD or DVD) and the top cover is opened, the error beep will not stop. The Touch Screen must be touched to stop the error beep.
- ◆ **Page number incorrect after deleting multiple studies.** When deleting multiple studies, the current page number does not correctly update.
- ◆ **Deleting in-process jobs may cause drives to lock up.** Deleting jobs that are recording or printing should be avoided if possible. The problem does not occur on Virtua XR.

Known Uncommon Issues

This section details uncommon or obscure issues with Virtua Version 2.0.1 software that are unlikely to be experienced by most users.

- ◆ **Discs ejected into input bin.** The Recorder configuration file might be corrupted, causing the Recorder to eject discs into the left input bin instead of the output bin. If a system reboot does not correct this problem, try running the Select Disc Drives utility from the General tab on the Utilities screen. This will replace the corrupted file with a fresh one. If this problem persists, please contact Codonics Technical Support. The problem does not occur on Virtua XR.
- ◆ **Progress bars inaccurate or stuck.** The job progress bars may prematurely jump to zero time remaining or become stuck even through the job has completed. Rebooting the system will clear this condition.
- ◆ **Recorder lock-up.** Occasionally the Recorder will lock up with a status of “Robotic Arm Error,” “No Drive Connection” or “No Recorder Drives Found.” To clear this condition, clear any stray discs from the Recorder, cycle power on the Recorder, wait for any receiving studies to be completed, and reboot the system.

- ◆ **System fails to completely start up.** Very rarely, the system will not completely start up and will display a message "Problem loading page." Touching the **Try again** button will complete the startup sequence.

Known Issues For International Regions

◆ Issues with Arabic Locales:

- ◆ Arabic characters may be clipped on disc labels.
- ◆ Arabic characters are currently not supported by the Codonics Virtua Medical Image Viewer.

- ◆ **Cannot set date and time from Virtua user interface in some Tier 2 locales.** The workaround for this problem is to run the system in the **en_US** locale (which is the factory setting), set the local time and date correctly, and then change the system to the desired operating locale. A list of Tier 2 locales and instructions for changing the locale are in Version 1.2.1 of the *Virtual User's Manual* (Codonics part number VIRTUA-MNLU).

- ◆ **No Unicode support in Viewer.** The Codonics Virtua Medical Image Viewer does not correctly display Unicode characters. It is uncommon for DICOM files to be encoded in Unicode.

- ◆ **Limited Viewer support for international characters.** Refer to the Codonics Virtua Medical Image Viewer Release Notes (Codonics part number 901-356-001) for details.

- ◆ **User interface issue with Hong Kong locale.** Problems with date formatting may distort the user interface in the Chinese-Hong Kong - **zh_HK** locale. For Chinese language, it is recommended that one of the other Chinese locales be used.

- ◆ **No support for Turkish and Indian locales.** The Turkish - Turkey - **tr_TR** locale may cause errors and should not be used. The Tamil - India - **ta_IN** locale does not correctly support Tamil characters.

Technical Support

If problems occur during software installation, contact Codonics Technical Support between the hours of 8:30AM and 5:30PM EST (weekends and U.S. holidays excluded).

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