

Service Bulletin

Release of NX 3.0.21.00 with XRDl 20.0 and ASC 6.0

Task

Timing	Category	Scope
<input checked="" type="radio"/> Next service as agreed with customer	<input type="radio"/> Apply at all sites	<input checked="" type="radio"/> Problem Record: PRB0053525 PRB2000023 PRB2000084
	<input checked="" type="radio"/> Apply at affected sites as listed below	
	<input type="radio"/> Optional to improve functionality of product	

Task Tracking

After completion of your task the following entry in your Service Report is required:

66086365

*

* Insert the document number into the field "Comment" (SMS form).

Purpose of this document:

It announces the introduction of:

- MUSICA Acquisition Workstation software NX 3.0.21.00 (abbreviated "NX 21.00")
- XRDl 20.0 (X-Ray Device Interface)
- ASC 6.0 (Agfa Soft Console)

Affected sites:

Upgrade these systems to NX 21.00 which require the new features or where the listed problems shall be solved.

The signatures on the approval page indicate the solutions described in this Service Bulletin have been reviewed and are NOT reportable because no actions are taken to reduce a "Risk to Health" according to our risk assessment process.

1 Introduction

The MUSICA Acquisition Workstation software version NX 3.0.21.00 is released, together with the following related DR system components:

- XRDI 20.0 (X-Ray Device Interface)
- ASC 6.0 (Agfa Soft Console)

NX 3.0.21.00 is the successor of NX 3.0.20.00 (SU1)

Purpose of NX 3.0.21.00:

- Introduction of some new features. For details refer to NX 3.0.21.00 / NX 4.0.21.00 SB01, Document ID [65879905](#).
- Solution of some Problem Records. For details refer to sections 1.1.1, 1.1.2 and 1.1.3.

Purpose of XRDI 20.0 and ASC 6.0:

- XRDI 20.0 solves one problem record. For details refer to section 1.1.2.
- The updated DR software components introduce some new features and solve several minor software issues. For details refer to sections 1.2.



NOTE:

NX 3.0.21.00 becomes NX 4.0.21.00 when the NX_MULTI_FRAME_IMAGING license for dynamic is enabled. Dynamic imaging is currently supported by DR 800 only.

NX 3.0.21.00 is further abbreviated NX 21.00 in this document.



IMPORTANT:

When upgrading to NX 21.00, the related DR components (XRDI 20.0, ASC 6.0) need to be upgraded, too.

The system version is increased to V 10.0.30. See the enclosed excerpt of chapter 10, Release information of the DX-D 100 V10 - Service Manual, Document ID [64225411](#).

	System Component	System V 10.0.10	System V 10.0.13	System V 10.0.30
Release date		06/2018	07/2018	09/2018
NX and related installers	Workstation Software	NX 20.00	NX 20.00	NX 21.00
	Canon Detector Software	CDI 3.6	CDI 3.6	CDI 3.6
	Vieworks Detector Software	VDI 3.3	VDI 3.3	VDI 3.3
	Trixell Detector Software	TRI 2.5	TRI 2.5	TRI 2.5
	Innolux Detector Software	IRI 2.0	IRI 2.0	IRI 2.0
	Agfa Softconsole	ASC 5.0	ASC 5.0	ASC 6.0
	Sedecal SoftConsole	SC 5.7	SC 5.8	SC 5.8
	X-Ray Device Interface	XRDI 19	XRDI 19	XRDI 20
	CR/DR Service Toolbox *	V 3.2	V 3.2	V 3.2
Generator	Sedecal TechServ	6.17	6.17	6.17
	Generator firmware ATP Console (U24 EPROM)	V7R1b94	V7R1b94	V7R1b94
	HT controller software (U5 Controller)	V5R8.10 **	V5R8.10 **	V5R8.10 **
Mobile X-Ray Unit	Motion Control Board firmware	V11R3b7	V11R3b7	V11R3b7

* Updates do not trigger a system version. For CR/DR Service Toolbox only: Install the latest available version.

** V5R8.10 only ex factory

¹⁾ The firmware depends on detector Part Number and its revision index.

1.1 Solved Problem Records with NX 21.00 in combination with XRFI 20.0**1.1.1 Displayed Exposure Index sometimes too high for speed class free digitizers [PRB0053525]**

<i>Symptom</i>	<p>In case of high dose examinations, for example Lumbar Spine, and low dose examinations with little contrast, the automatically calculated Exposure Index (EI) may be too high for speed class free digitizers (CR 10-X, CR 12-X, CR 15-X, CR 30-X 2nd, CR 30-Xm, DX-G, DX-M). The EI display is not direct proportional to the dose on the image plate, but increases exponentially with increasing dose.</p> <p>Digitizers using speed class (for example CR 85-X; CR 30-X) as well as all DR detectors are not affected.</p>
<i>Cause</i>	<p>Inappropriate EI calculation in case of speed class free digitizers.</p>
<i>Workaround</i>	<p>Specifically in case of lateral lumbar spine images, or in cases where the exposure dose is very low, instruct the user to use the manual EI tool in the NX Editing Screen for quality control.</p>
<i>Solution</i>	<p>Upgrade to NX 21.00. There the EI calculation for speed class free digitizers has been corrected.</p>

1.1.2 NX system snapshot not complete for some configurations [PRB2000023]

Symptom The NX system snapshot is not complete for some configurations on NX 20.00 / XRDI 19.0 or XRDI 19.1 systems. They are lacking SDL (Sedecal Generator Software) or SC (Sedecal Console) logfiles. In some cases also DR detector logfiles can be missing.

This can lead to an additional customer visit to obtain the required logfiles, in case the system is not part of the SRSS (Secure Remote Service System).

Cause Software fault in XRDI 19.0 and XRDI 19.1.

Workaround A configuration file is available on the Agfa HealthCare Library to solve the issue in NX 20.00 (SU1) systems. For details refer to NX 20.00 SB05, Configuration file available to include Sedecal logfiles in NX system snapshot, Document ID: [63460339](#).

Solution The issue is solved in XRDI 20.0.

1.1.3 Licensing error after each NX restart in CR only configuration [PRB2000084]

Symptom At DR systems with a CR only configuration, a Licensing Error is displayed with each restart of NX. Contents of the error message (displayed in user language): **Emergency or recovery images will be lost because the required license(s) have been expired [Ref. MESS584]**.

When clicking OK, NX operates normal. This error has no influence on emergency or recovery images.

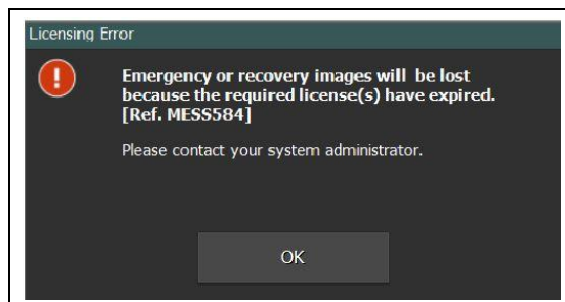


Figure 1

Cause Software issue in NX 20.00 (SU1).

Workaround Click OK to close the window. Message can be ignored.

Solution The issue is solved in NX 21.00.

1.2 New features and solved bugs with XRDI 20.0

New features compared to XRDI 19.0:

- DR 800 only: Added checkbox “Manual Collimation allowed” in **Device Configuration > Generator Settings > General Settings** tab. Default: Enabled. This allows to remove the manual collimation button in the soft console (required for installations in the US).
- DR 800 only: Due to the resolution of the current diagnostic monitor, no room is left for the soft console. To solve this issue, the soft console can be placed on the monitor for the reference image*.
- DR Retrofit systems only, without soft console: The NX indicates room state “ready” by a green bar on top of the user interface*.
- DR 800 only: Added possibility to invert Tube Column Movement and Table Transversal Movement in DR 800 **Device Configuration > Room Settings > Positioner** tab*.
- Added XRDI Status Monitor (Idis.StatusMonitor.exe) in the service menu on NX*.
- DR 100e only: Improved detector calibration with Innolux detectors (DR 10e / DR 14e / DR 17e).

*For details refer to Application Note “Functional Changes in NX 21.00”, Document ID [65879907](#)

Solved bugs compared to XRDI 19.0

- DR 800 only: Very sporadically, when changing modality position (Table → free → Table); this change is not executed.
- DR 600 only: Small deviation was present for de-centering values in APC Config tool and NX Config tool.
- DR 600 only: When no detector is inserted in the Bucky and a horizontal FLFS is started (configured for detector in landscape position), error message MESS108 was not displayed and the ROI confirm button was not disabled.
- When switching modality position to manual when the door was opened this took about 10 seconds.
- DR 400 only: Max. patient movement parameter was not available for FLFS configuration.
- Very sporadically, when moving the detector out of WiFi range and back in range, the thumbnail was deselected in NX.
- When performing a FLFS exam and releasing the expose button, it took a while before the FLFS exam was aborted (about 10 seconds).
- Several additional minor bug fixes.

1.3 New features and solved bugs with ASC 6.0

New features compared to ASC 5.0:

- DR 800 only: Allows soft console to be placed on a second monitor.
- DR 800 only: Added check for SID \leq 175 cm in case of vertical FLFS.

Solved bugs compared to ASC 5.0

- DR 800 only: When selecting a new study (patient), the fluo timer was not reset.
- When performing a FLFS exam and releasing the expose button during the FLFS sequence (after a first exposure was already taken), sometimes it takes some time (about 10 seconds) before the FLFS exam is aborted.
- DR 800 only: Webcam image in the soft console was not 180 degrees rotated when patient orientation 'head right' is configured.
- DR 800 only: It took 5 minutes or longer before the webcam image appeared. Expected were about 2 minutes only.
- Very sporadically, the detector switch showed "unknown" for the detector instead of the detector name. A reset of NX was required to solve this issue.
- Several additional minor bug fixes.

2 Prerequisites



SOFTWARE:

- NX 21.00 Starterkit
For details refer to NX 21.00 SB01, Document ID [65879905](#).
- The NX 21.00 Starterkit includes the following software items (which are also separately available):
 - XREDI 20.0, Document ID [66091001](#)
 - ASC 6.0, Document ID [66091689](#)

Download the files from the global secure FTP server using an FTP client. For details see Service Information Bulletin "Global Secure FTP Server – Imaging Services Software Download", Document ID [36831163](#).



TOOLS:

- Service PC



DOCUMENTS:

- NX 21.00 Service Manual, Document ID [65880936](#)



IMPORTANT:

The installation and service of the product(s) described herein is to be performed by qualified personnel who are employed by Agfa NV or one of its affiliates or who are otherwise authorized by Agfa NV or one of its affiliates to provide such services.



IMPORTANT:

Strictly observe all safety directions within the "Generic Safety Directions", Document ID [11849633](#).

3 Instructions

**REQUIRED TIME:**

Approximately 1 hour

- Perform the upgrade to NX 21.00 as described in section 7 of the Service Manual NX 21.00, Document ID [65880936](#).

**IMPORTANT:**

For upgrades starting from NX 3.0.8950, do not use the automatic NX software upgrade wizard, but perform manual uninstall and install steps as described in NX 21.00 Service Manual section 7, Upgrade Installation, Document ID [65880936](#). Reason: SQL Server 2014 to SQL Server 2014 SP2 upgrade fails with the automatic upgrade wizard.

4 Verification

- NX: Verify the upgrade as described in chapter 6, Acceptance Test, of the Service Manual NX 21.00, Document ID [65880936](#).
- DX-D 100 / DX-D 100 Wireless system: Perform a DR workflow. Refer to the SQT (Service Quality Test) instructions, Document ID [54513844](#).

5 Keywords

NX 21, SW, update, upgrade

6 Version history

Version	Change	Date
1.0	Initial Version	09-2018



Details as of PDF Creation Date

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