

Service Bulletin

Release of NX 2.0.8900 / 3.0.8900, XRDI 16, ASC 2.0 and CDI 3.3 with system version 5.1

Task			
Timing		Category	Scope
Next service as agreed with customer	<input type="radio"/>	Apply at all sites	PowerHelp complaint / HQ issue:
	<input checked="" type="radio"/>	Apply at affected sites as listed below	PR1304190002 PR1408130002
			PR1309050002 PR1409020005
			PR1401070003 PR1409190001
			PR1404240002 PR1411180007
			PR1405220010 PR1411110008
	<input type="radio"/>	Optional to improve functionality of product	PR1407230001 PR1406050004

Task Tracking

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

DD+DIS168.14E

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

Purpose of this document:

- This document lists the new features of the released software items.
- It contains the installation instructions for these new software items.
- It also contains the solution for the listed PR cases.

Affected serial number(s) / batch: Upgrade those sites which require the new features or where the solved issues need to be implemented.

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.

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1 Introduction/purpose

The following software was released for world-wide delivery in January 2015 for the DX-D 100 / DX-D 100 Wireless systems:

- NX 2.0.8900 / 3.0.8900
- XRDI 16 (X-Ray Device Interface)
- CDI 3.3 (Canon Detector Device Interface) for DX-D 100 Wireless only
- ASC 2.0 (Agfa Softconsole)



IMPORTANT:

Always install the following components together.

XRDI 16, and, if applicable CDI 3.3 (Canon Detector Device Interface)

XRDI 16 does not support previous versions of ASC CDI 3.3.

1.1 Features

NX 2.0.8900 / 3.0.8900

For a detailed overview refer to separate Service Bulletin:

NX 2.0.8900 - 3.0.8900 - SB 01 - Release of NX 2.0.8900 - 3.0.8900

See section *Referenced Documents* in chapter 2 of the present document.

XRDI 16

- There are some changes to make XRDI 16 compatible with NX 2.0.8900 / 3.0.8900.

CDI 3.3

- XRDI software version 16 integrates the Detector Software CDI 3.3 and improves Wifi reliability and recovery.

ASC 2.0

- The new Agfa Softconsole version makes the ASC software compatible with the other components of this release.

1.2 Solved Problem Records

1.2.1 Exposure not possible after modality configuration with imported configuration [PR1304190002]

Symptom Error message (e.g. "please retry max power") when trying to set exposure parameters at the soft console. This happens after modality configuration by using an exported NX configuration from another modality.

Cause NX configuration tool below NX 2.0.8900/3.0.8900 not designed to use NX configuration files across different modalities.

Solution In the NX configuration tool of NX 2.0.8900/3.0.8900 several mechanisms are implemented to facilitate or prevent (depending on the modality types) usage of NX configurations across modalities.
For details refer to the *Application Note - Configuration Improvements in NX 2.0.8900 - 3.0.8900*, Document ID 47340342.

1.2.2 Line artifacts at images recorded with DX-D 30C DR detector [PR1309050002]

Symptom Line artifacts at images recorded with DX-D 30C DR detector in combination with a grid. Without grid the artifact does not occur. It may also appear at DX-D 35C DR detectors.

Cause The line artifact is caused by the dead-pixel removal algorithm of Canon. In cases where the anti scatter grid is parallel with a dead column or dead row, the interpolation technique of Canon filters out parts of the anti-scatter grid and generates an aliasing pattern. The gridlines suppression software is not built to take the Canon filters into account.

Solution The new image processing software of NX 2.0.8900/3.0.8900 checks if a line has been corrected during the dead pixel removal and adapts the grid line suppression accordingly.

1.2.3 Grid line artifacts visible on DX-D 600 exposures with widely open collimator [PR1401070003]

Symptom Line artifacts (grid lines) are visible on all pelvis exposures in the DX-D 600 table, generally on all exposures with widely open collimator. The symptom appears with the stationary grid 100 cm, 130 lines/inch, 8:1 ratio. It is independent on the used DR detector (Canon or Varian).

Cause Grid line suppression is not designed to work with grids where the frequency at the edges of the image is different from the center.

Solution In the new image processing software of NX 2.0.8900/3.0.8900 an improved grid line suppression algorithm is implemented which is able to cope with grids where the frequency at the edges of the image is different from the center.

1.2.4 Operator identification textbox sometimes very slow in reaction [PR1404240002]

Symptom With operator identification at start of new exam enabled, it takes sometimes quite a long time until the related text box gets active. The text box appears when a new exam is started.

This option can be enabled or disabled in the NX Service and Configuration Tool
See menu: **General > Workflow Management > Identification > Operator > Force operator identification on start exam**

Cause Suboptimal memory management.

Solution In NX 2.0.8900/3.0.8900 the memory management for the operator identification as well as for the reject reason dialog box is optimized by pre-loading the required data (list of operators/reject reasons) in memory at startup of the process.

1.2.5 Worklist query not possible anymore after loss of network [PR1405220010]

Symptom When the DX-D 100 loses the network connection while it is processing a worklist query, the manual and automatic query no longer works when the network becomes available again. The only way to re-enable the manual or automatic query is by resetting the NX application ("restart NX completely").
This issue only appears if the network is available at the start of the worklist query and becomes non-available during the execution of the query.

Cause Software issue in the DICOM library.

Solution In NX 2.0.8900/3.0.8900 the Dicom Library is adapted to handle this situation properly.

1.2.6 Musica 3 performance issues on DX-D100 [PR1407230001]

Symptom Musica 3 performance issues on DX-D100: Musica 3 shows significant longer processing time compared to Musica 2.

Cause Combination of high performance software application and medium performance PC.

Solution In NX 2.0.8900/3.0.8900 an improved Musica image processing software reduces image processing time for Musica 3 images on DX-D 100 significantly.

1.2.7 Moving image in the editing pane [PR1408130002]

Symptom Very sporadically an image is moving in the editing pane without user interaction.

Cause When using the autopan feature and working in print mode on true size images this behavior is possible.

Solution Workaround: Reconfigure the UI Configuration – Viewing & Editing Environment Settings from print mode to normal mode.
Solution: In NX 2.0.8900/3.0.8900 a software change is implemented to prevent the moving of images.

1.2.8 Frequent autocollimation failures on pediatric exposures [PR1409020005]

- Symptom* The automatic collimation feature fails frequently on pediatric exposures, especially on images with very low dose (e.g. premature infants) in combination with NIP cassettes. In this case the user needs to collimate manually.
- Cause* The dynamic range in these low dose speed class free images is very small, which makes it difficult to detect the black border. Usually speed class free images have a very large dynamic range.
- Solution* In the new image processing software of NX 2.0.8900/3.0.8900 an algorithm is implemented which limits the dynamic range compression to detect the black border more reliably.

1.2.9 Translation issue: Wrong used names for Patient sex in Veterinary NX German [PR1409190001]

- Symptom* After upgrade from NX 2.0.8000 to NX 2.0.8800 SU1 at an NX for Veterinary application the German translation for the patient sex changed from "Männlich, Weiblich, Sonstig" to "Männchen, Weibchen, Sonstige".
- Cause* Translation issue.
- Solution* In NX 2.0.8900/3.0.8900 the translation is corrected.

1.2.10 DX-D100 Wireless: Image did not process and image was lost after NX reboot [PR1411180007]

- Symptom* DX-D100 Wireless where the image did not process and image was lost after NX reboot.
- Cause* Perhaps incorrect Cisco access point firmware is used.
- Solution* Solved with the introduction of CDI 3.3.



1.2.11 Detector calibration cannot be done after upgrade to version 3.6 [PR1411110008]

Symptom The customer cannot calibrate a detector in Agfa user mode.

Cause There was an error in the XRDl calibration tool.

Solution Solved with the introduction of XRDl 16.

1.2.12 Broken wire in the magnetic brakes of the telescopic arm [PR1406050004]

Symptom Cable error GE041

Cause Telescopic arm has been retracted or extended without releasing the brakes.

Solution Improved design of the telescopic arm brakes.

2 Prerequisites



REFERENCED DOCUMENTS:

- For a detailed NX 2.0.8900 - 3.0.8900 installation description refer to separate available Service Bulletin:
NX 2.0.8900 - 3.0.8900 - SB 01 - Release of NX 2.0.8900 - 3.0.8900
Computed Radiography > CR Workstation Software > NX 2.0.8900 - 3.0.8900 > Service Bulletin
- Simplified ELMS DR Subproduct Interoperability Matrix
General Info > Agfa HealthCare > Publications > Service Manual
- DX-D 100 - Service Bulletin No. 28 - DR Service Toolbox version 2.0 available
Direct Radiography > DR Detectors > DX-D 100 Generic > Service Bulletin
- Application Note - NX 2.0.8900 - 3.0.8900 Configuration Improvements
Computed Radiography > CR Application > Service Application Notes
- Service Plan NX 2.0.8900 / 3.0.8900 Document ID 47792804
Computed Radiography > CR Workstation Software > NX 2.0.8900 - 3.0.8900 > Service Plan

Organize a new license file (ALF) for the NX via ELMS.

For further information concerning obtaining or creating the ALF (Application License File), refer to the Simplified ELMS DR Subproduct Interoperability Matrix.
See section Referenced Documents further down in this paragraph.



NOTE:

Downloading plug-ins for the new installers for the NX offline configuration tool is not required. By loading the installer on the Service PC with the NX offline configuration tool installed, the plug-in is installed automatically.

See *SOFTWARE* section further down in this paragraph.

The plug-ins are integrated for the following installer versions:

XRDI >= 15

CDI >= 3.0

VRN >= 7.1

VDI >= 1.1

**SOFTWARE:**

- For upgrades order the NX 2.0.8900 / 3.0.8900 upgrade kit (Starter kit DVDs 1 and 2):
 - Via spare part code*: CM+6118670 (= Clean Installation Kit)
or via Sales ABC code: 53F8H
- Download the XREDI 16 software from the Agfa HealthCare Library to a USB flash drive (checked to be virus-free):
Direct Radiography > DR Components > XREDI > Software
- Download the ASC 2.0 software from the Agfa HealthCare Library to a USB flash drive (checked to be virus-free):
Direct Radiography > DR Components > Generator > Software

DX-D 100 wireless only:

- Download the CDI 3.3 software from the Agfa HealthCare Library to a USB flash drive (checked to be virus-free):
Direct Radiography > DR Components > DR Detectors > DX-D 30C/DX-D 35C

* The last digit in the spare part number indicates the spare part revision at release of this document. When ordering, the current revision of the spare part is delivered.

3 Instructions

**REQUIRED TIME:**

- Installation of a new system:
The Mean Time to Install (MTTI) of a staged system is specified for 4 hours. For details refer to the *Service Plan NX 2.0.8900 / 3.0.8900* Document ID 47792804 ([Intranet Link](#) / [Extranet Link](#)).
- Upgrade installation: Approximately 5 hours.
Note that installing hotfixes may already take between 1 and 2 hours, depending on the hotfixes status.

3.1 Installation of NX 2.0.8900 / 3.0.8900

Install NX 2.0.8900 / 3.0.8900 as described in the separate Service Bulletin:

NX 2.0.8900 - 3.0.8900 - SB 01 - Release of NX 2.0.8900 - 3.0.8900

Computed Radiography > CR Workstation Software > NX 2.0.8900 - 3.0.8900 > Service Bulletin

3.2 Installation of XRDI 16, CDI 3.3, ASC 2.0



IMPORTANT:

Note that the following error may occur during installation!

Symptom During installation, Windows security triggers a pop-up message

Cause

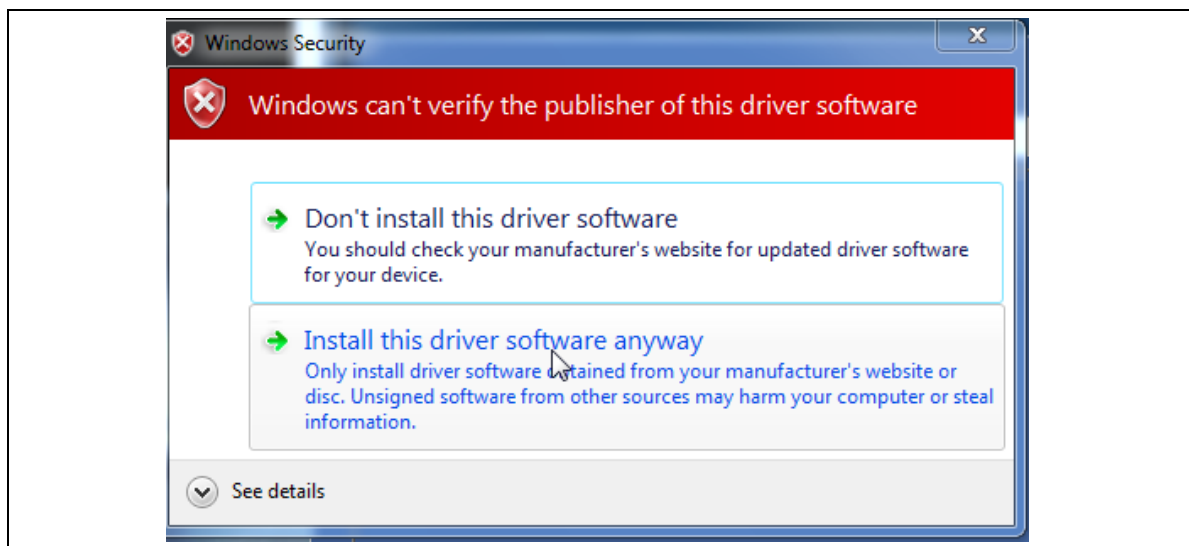


Figure 1

Solution Workaround solution: Select “Install this driver software anyway”.

Perform the following steps on NX workstation:

- (1) Stop NX.
- (2) Copy the installers for **XRDI 16, CDI 3.3, ASC 2.0** to **C:\Agfa\Healthcare\NX\Installers** into the appropriate subdirectory on the NX.

Create the folder if it doesn't exist.



NOTE:

CDI 3.3 is only applicable for DX-D 100 Wireless.

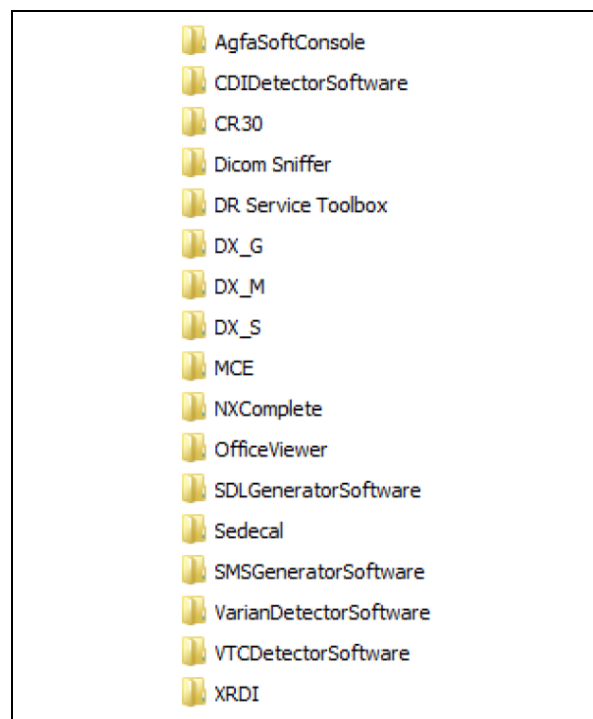


Figure 2

- (3) Export the current NX configuration via NX configuration tool.
- (4) Load the updated NX license file (.alf) via the license manager.
- (5) Load the new installers by using the Activation Utility Helper.
- (6) Reload the previously saved NX configuration via NX configuration tool.
- (7) Activate the configuration.

3.2.1 Microsoft Security Essentials Autoconfigurator (MSEA)



NOTE:

As from XRDI version 15, it is necessary to run the Microsoft Security Essentials Autoconfigurator (MSEA) after a higher XRDI version has been installed. For details on how to work with the MSEA, refer to the following Service Bulletin: *DR Service Toolbox version 2.0 available*. See *Referenced Documents* in section 2 Prerequisites of the present document.

4 Verification

Correct functionality of the respective DX-D system is verified by performing the following Acceptance Test procedures:

- On system level: System Acceptance Test
- On component level: NX workstation Acceptance Test procedure

5 Keywords

NX 2.0.8900 - 3.0.8900, XREDI 16, CDI 3.3, ASC 2.0

6 Version history

Version	Change	Date
1.0	Initial version	01-2015



Details as of PDF Creation Date

Document Metadata

Title:	DX-D 100 - Service Bulletin No. 61 - Release of NX x.0.8900_XRDI 16_ASC 2.0_CDI 3.3 with version 5.1
Livelink ID:	47812640
Version#:	14
Version Date:	2015-01-22 09:47 AM CET
Status:	Approved on 2015-01-27 11:06 AM CET
Owner:	Michael Roeser (exfrm)
Created By:	Michael Roeser (exfrm)
Created Date:	2014-11-26 10:31 AM CET
PDF Creation Date:	2015-01-27 11:07 AM CET

This document was approved by:

Signatures:

1. Josef Wagner (agwj) on 2015-01-22 10:29 AM CET
2. Paul Merckx (amdag) on 2015-01-22 04:03 PM CET
3. Bernard Schollaert (ammrn) on 2015-01-23 07:38 AM CET
4. Bart Biesemans (amajm) on 2015-01-26 03:47 PM CET
5. Daniel Senft (awnld) on 2015-01-23 05:53 PM CET
6. Lieven Lauwers (awibr) on 2015-01-27 10:57 AM CET

Detailed Approver History:

- **Approval Workflow started on 2015-01-22 09:59 AM CET**
 - Approval task originally assigned to and completed by Paul Merckx (amdag) on 2015-01-22 04:03 PM CET
 - Approval task originally assigned to and completed by Lieven Lauwers (awibr) on 2015-01-27 10:57 AM CET
 - Approval task originally assigned to and completed by Josef Wagner (agwj) on 2015-01-22 10:29 AM CET
 - Approval task originally assigned to and completed by Daniel Senft (awnld) on 2015-01-23 05:53 PM CET
 - Approval task originally assigned to and completed by Bernard Schollaert (ammrn) on 2015-01-23 07:38 AM CET
 - Approval task originally assigned to and completed by Bart Biesemans (amajm) on 2015-01-26 03:47 PM CET

Version & Status History

Version#	Date Created	Status
14	2015-01-22 09:47 AM CET	Approved - 2015-01-27
13	2015-01-22 09:42 AM CET	
12	2015-01-22 09:39 AM CET	
11	2015-01-21 05:45 PM CET	Reviewed - 2015-01-22
10	2015-01-21 05:44 PM CET	
9	2015-01-21 05:15 PM CET	
8	2015-01-14 11:32 AM CET	Reviewed - 2015-01-21
7	2014-12-10 09:53 AM CET	Approved - 2014-12-16
6	2014-12-10 09:41 AM CET	
5	2014-12-09 12:52 PM CET	Reviewed - 2014-12-10