

Service Bulletin

DX-D 10/20/Fixed detector software VRN 7.4 released

Task		
Timing	Category	Scope
Next service as agreed with customer	<input type="radio"/> Apply at all sites	Problem Record: PR1501150005, PRB0055385
	<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:

DD+DIS040.17E

*

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

Purpose of this document:

- This document introduces Varian detector software VRN 7.4 for DX-D 10/20/Fixed detectors.
- It contains the solution for the listed Problem Records.

Affected serial number(s) / batch:

Install VRN 7.4 on all systems with DX-D 10/20/Fixed detectors.

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 Varian detector software VRN 7.4 has been introduced.

- It contains an adaptation calibration factor which is used for exposure index calculations (applicable for DX-D 10/20 C/G detectors only). Details see section 1.1.1.
- It is a solution for the PRB cases described below.

For installation instructions refer to section 3.1.

1.1 Resolved Problems

1.1.1 Modified calibration factor for correct calculation of Exposure Index (EI)

A modification was made of the calibration factor for the calculation of the Exposure Index for images from the detectors DX-D 10C/G and DX-D 20C/G (not applicable for fixed detectors).

As a result the Exposure Index of images from these detectors will be lower by approximately 23% compared to values before the upgrade to VRN 7.4 even though the images were made with the same exposure technique.

In order to avoid unnecessary increase of the exposure dose the users have to be notified that the image quality shall be closely monitored. The exposure dose shall not be adjusted to compensate for the lower exposure index alone, provided that the image quality is sufficient. The Target Exposure Index should be adjusted accordingly.

Customers using "Dose Monitoring" must set new reference values for images from DX-D 10C/G and DX-D 20C/G. For details about Exposure Index and Dose Monitoring refer to the NX User Manual.

1.1.2 Overheat error displayed on the NX [PR150115000]

Symptom The following error messages are shown on the NX workstation in combination with VRN 7.3, DX-D 10/20 and detector firmware build 39:

```
"Over temp on panel Mess 374"
"xMESS58 (0°C) "
"VRNMESS7036 (DR Detector error 105) "
```

Cause Software bug

Solution Solved with VRN 7.4 software version.

1.1.3 Horizontal and vertical intermittent line artifact on fixed detectors [PRB0055385]

Symptom Images show black, white and gray lines in the images.

Cause Software bug

Solution Solved with VRN 7.4 software version.

1.2 System overview table

Changes compared to previous version are marked **bold blue** in the table:

		DX-D 100 System version		
	System Component	8.2.10	9.0	9.0.60
NX and related installers	Workstation Software NX	NX 8950	NX 9000	NX 9000
	Varian Detector Software VRN	7.3	7.3	7.4
	X-Ray Device Interface XRDl	18.0	18.1	18.1
	Sedecal SoftConsole SC	5.6	5.7	5.7
	Agfa Softconsole ASC	4.1	4.1	4.1
	CR/DR Service Toolbox	3.0	3.0	3.0
Generator	Sedecal TechServ	6.15	6.17	6.17
	Generator firmware ATP Console	V7R1B78	V7R1B92	V7R1B92
	Generator firmware HT controller	V5R8.9	V5R8.10	V5R8.10
	Motion Control Board firmware	V11R3b7	V11R3b7	V11R3b7
Network	Atheros driver	10.0.0.297	10.0.0.297	10.0.0.297

2 Prerequisites



SOFTWARE:

- Download 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 Licensing Service Manual, Document ID [24522499](#).
- Download the software from the Agfa HealthCare Library and store it on a USB-Flash drive (checked to be virus-free):
VRN 7.4
Direct Radiography > DR Detectors > DX-D 10/DX-D 20/DX-D Fixed > Software



REFERENCED DOCUMENTS:

- DX-D 10 / DX-D 20 / DX-D Fixed Detector - Service Manual, Document ID [41222172](#)
- Electronic Licensing Management System - Service Documentation, Document ID [24522499](#)



IMPORTANT:

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

3 Instructions

3.1 Installation of VRN 7.4



REQUIRED TIME:
15 minutes

- (1) Install the VRN software on all systems with DX-D10/20/Fixed detectors as described in the DX-D 10 / DX-D 20 / DX-D Fixed Detector - Service Manual, Document ID [41222172](#).

3.1.1 Inform the customer about modified calibration factor

- (1) Inform the customer about the modified calibration factor as described in section 1.1.1.

4 Verification

- (1) Perform a workflow test with one Varian detector.

5 Keywords

Varian 7.4; VRN7.4, panel software

6 Version history

Version	Change	Date
1.0	Initial Version	03-2017



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Signatures:

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