

Radiology Solutions Services

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DX-D 100 / DX-D 100 Wireless

Type 5410/Type 5411

NX Workstation: Clean Installation Procedure for Windows 7 PC (Intel Core i7)

Purpose of this document

This enclosure describes the Clean Installation procedure for the NX Workstation (Windows 7 PC with Intel Core i7 processor) of DX-D 100/100 Wireless systems.

This document is added to the applicable software package and available from the Agfa Medimg Library.

The confidentiality note in the document footer classifies this document as confidential. Dispose of this document when the task is finished.

Referenced documents

Referenced documents are listed on page 5.

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WARNING:

Improper operation or service activities may cause damage or injuries.

- (1) Read the *Generic Safety Directions* prior to attempting any operation, repair or maintenance task on the equipment. Refer to Document ID 11849633.
- (2) Strictly observe all safety directions within the *Generic Safety Directions* and on the product.



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.

DOCUMENT CONTROL NOTE:

LIST OF CONTENTS

1	PREP	ARATIONS	5
	1.1	Prepare required software	6
	1.1.1	Store image of Operating System on USB storage device	8
	1.1.2	Create PartedMagic DVD	8
	1.1.3	Create NX DVD or prepare NX USB storage device	8
	1.2	Create backups	9
	1.3	Write down the Windows product key	9
	1.4	Connect USB keyboard and USB mouse	10
2	CLEA	N INSTALLATION SEQUENCE	10
3	INSTA	ALL THE OPERATING SYSTEM	11
	3.1	Activate Windows (Windows 7)	16
4	ADJUSTMENTS & OPTIONS		
	4.1	If required: Change monitor rotation	17
	4.2	Adjust touch screen setting	18
	4.3	Adjust PC's date and time and timezone	19
	4.4	Optionally remove MSE	19
	4.5	Option for use with wireless mouse: Install Bluetooth stick driver	20
5	INSTA	ALL NX SOFTWARE	21
6	INSTALL ALL NECESSARY NX SUBCOMPONENTS AND HOTFIXES		
	6.1	Install applicable subcomponent software	22
	6.2	Install latest Hofixes	22
	6.3	Load ALF (license file) and activate NX	23
	6.3.1	Load existing ALF - PC not exchanged	23
	6.3.2	Create new ALF File- PC exchanged	23
	6.3.3	Activate NX	24
	6.4	Optionally: Install LED Status Indicator drivers	25
7	NETW	ORK SETTINGS (IP ADDRESS)	27
8	INSTALL AND CONFIGURE DETECTORS		
	8.1	DX-D 10/20 detectors (DX-D 100 only)	31
	8.2	Wireless detectors (DX-D 100 Wireless only)	31
9	CONF	IGURE NX	32
	9.1	Load backup in NX Configuration Tool	32
10	CONF	IGURE SEDECAL SOFTCONSOLE	32

	10.1	Adjust Sedecal SoftConsole files	32
11	VERIF'	Y CLEAN INSTALLATION	32
12	CREAT	TE BACKUP OF NX CONFIGURATION DATA	33
13	EXPLA	NATION OF NOTES	34
11	CONV	ENTIONS	24

Subject

This clean installation instruction is for a DX-D 100/100 Wireless system in case Windows 7 PC with Intel Core i7 processor has to be set up from scratch, for example

- when the Operating System is corrupted or
- after replacement of the hard disk drive or NX PC.

It applies only to NX PC (Intel Core i7) with Operating System Windows 7.

1 Preparations



REQUIRED TIME:

Approximately 3 hours

- 30 minutes: Loading Operating System and NX software
- Up to 1.5 hours: Loading latest hotfixes
- 30 minutes: Configuration30 minutes: Calibration



REQUIRED TOOLS:

- USB keyboard and USB mouse
- USB storage device (for example USB flash drive, USB hard disk)
- External USB CD/DVD reader



REFERENCED DOCUMENTS:

Make sure you have the Referenced Documents downloaded from Agfa Medimg Library before going on site.

- NX/MUSICA Acquisition Workstation Service Manual, Document ID 74737949
- FUSE Service Manual, Document ID <u>23977509</u>
- For applicable detector Manuals, DR wireless networking Service Manual and DR Detector - basic configuration guide refer to the Agfa Medimg Library:
 Direct Radiography > DR Detectors > Service Manual (click here).

1.1 Prepare required software



REQUIRED SOFTWARE:

- Win 7 image ver.6.0
 6.0.zip, Document ID <u>52415023</u>
 provided as ten split zip files only
- NX software
 Required NX version depends on the version which was installed before:
 The NX version must match the NX license file.



NOTE:

The NX Starter DVD / USB files contain all additional required installers, which were released at the time of the corresponding NX software release in

Service Software\NX Application NX X* \AdditionalInstallers directory.

So, if needed, more recent versions of the components must be installed. Create the respective software installer via Electronic License Management System (ELMS) Software Collection Tool or download the software items from the Agfa Medimg Library.

Only those installers are started by the activation utility that have been selected in ELMS and with which the Application License File (ALF) file has been constructed.

During clean installation or software upgrades the NX copies the files from Starter DVD/USB to C:\Agfa\Healthcare\NX\Installers\<installer directory>.

^{*} X = released NX version



ADDITONALLY REQUIRED SOFTWARE:

Organize the following software items:

Software	Comment	
Additional installers (also on NX Starterkit DVD)	For additional required software refer to the Simplified ELMS DR Subproduct Interoperability Matrix, Document ID 35878296, or release bulletin for the appropriate version.	
Application License File (ALF)	When performing clean installation on the same PC: Re-use the license file, if still available, or get a copy from ELMS.	
	 When performing clean installation on a new PC: A new license file is required. Refer to section 6.3.2. 	

DOCUMENT CONTROL NOTE:

Software	Comment	
Latest NX hotfixes	Use the ELMS software collection tool to obtain the latest hotfixes. As alternative: The latest hotfixes can be downloaded via Fast Update Service (FUSE) installed on the Service PC. For instructions to obtain and install the FUSE software refer to the FUSE Service Manual, Document ID 23977509.	
LED beacon driver (optional)	Download the required installer from the Agfa Medimg Library.	
Bluetooth driver (optional)		
PartedMagic DVD	Download from the from the Agfa Medimg Library: DX-D 100/100 Wireless - Software - Parted Magic DVD, Document ID 52401952	
CR/DR service toolbox	Contains DR Installation Checker and the Agfa DR Dead Pixel Count Tool (ADPT, formerly DMAT). Download latest version from the Agfa Medimg Library.	
XML editor	Download for example Microsoft XML notepad from www.microsoft.com or use Notepad++.	



REQUIRED BACKUPS:

Refer to section 1.2 Create backups

1.1.1 Store image of Operating System on USB storage device

- (1) Download from the AgfaBox the ten split files of **6.0.zip**, combine them as described in the readme.txt file and unzip.
- (2) Create a **DXD100_BCK** folder in the root of the USB storage device.
- (3) Copy the folder with the image in the DXD100_BCK folder. Do not use spaces in the folder name below "DXD100_BCK" (the imaging software will not recognize the image if there are spaces).

The following figure shows how the structure should look like:

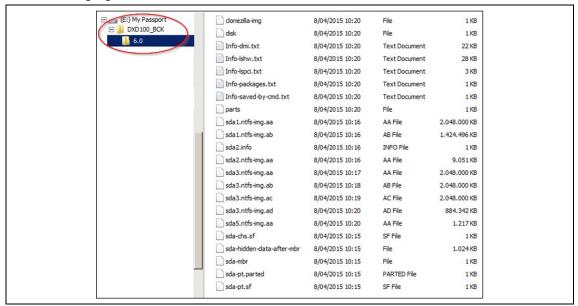


Figure 1: Required folder structure on USB storage device

1.1.2 Create PartedMagic DVD

(1) Create a DVD from the **pmagic_2012_12_25.iso** file.

1.1.3 Create NX DVD or prepare NX USB storage device

(1) Identify the previously installed NX version and have the NX DVD or NX USB flash drive available.

If the NX software is not available at site and depending on NX version: Download the applicable iso file from the AgfaBox and create a DVD or download the files and store on an USB storage device.

DOCUMENT CONTROL NOTE:

1.2 Create backups

- (1) Export the NX configuration.
- (2) Create a backup of the following files:
 - C:\Agfa\Healthcare\Sedecal\SiteConfig.xml
 - C:\Agfa\Healthcare\Sedecal\SedecalConfig.xml
 - C:\Agfa\Healthcare\Sedecal\ExtConsoleConfig.xml
 - C:\Agfa\Healthcare\Sedecal\Leds.xml
- (3) Note down:
 - IP address settings for all Network Interface Cards (NIC)
 - Detector configuration (IP / SSID / Passkey)
- (4) DX-D 100 Wireless: Have the detector CD (calibration data) available.
- (5) DX-D 100: Copy the Varian Detector DAT file of the original installation.
- (6) Copy NX license file (when performing clean installation on the same PC).

1.3 Write down the Windows product key

- (1) Switch off and disconnect the device from the mains.
- (2) Open the device to get access to the PC.
- (3) On the PC cover a sticker is located with the Windows 7 product key: Write down the product key, or take a picture of the sticker.
- (4) Close the device again.



Figure 2

1.4 Connect USB keyboard and USB mouse



NOTE:

It is recommended to put a small table close to the DX-D 100 mobile unit for the use of mouse and keyboard.

(1) Connect the USB keyboard, USB mouse and if required USB CD/DVD reader to the external USB connectors of the NX PC.

2 Clean installation sequence

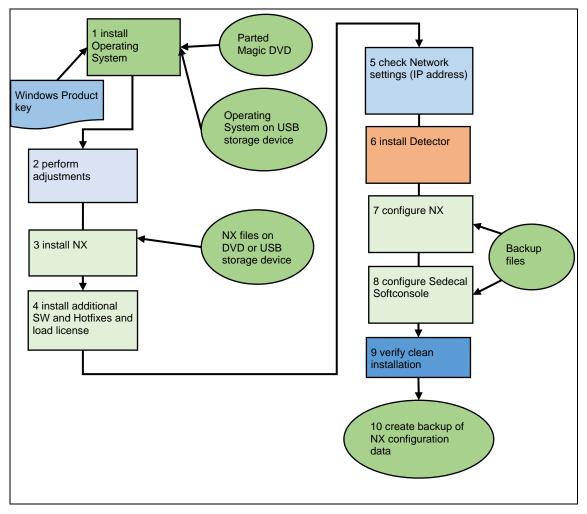


Figure 3: Clean Installation flow

DOCUMENT CONTROL NOTE:

3 Install the Operating System



Data loss possible.

Do *not* connect the external USB storage device (containing the Operation System) yet!

- (1) Start the NX PC: At start-up press **Del** key several times to enter BIOS.
- (2) Check BIOS version: It should be **v. 1.42**.

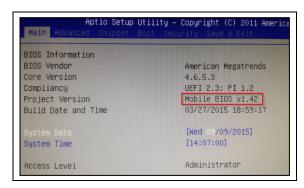


Figure 4

(3) Select **AHCI** from the SATA mode selection menu.

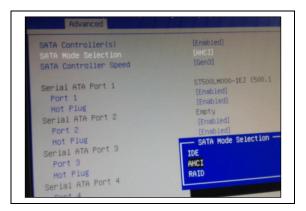


Figure 5

- (4) Set Boot priority for 1st Boot to USB CD/DVD.
- (5) Insert the PartedMagic DVD.
- (6) Press F4 Save and exit.

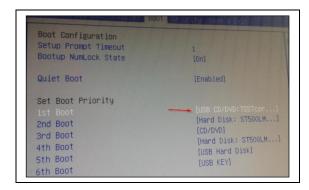


Figure 6

DOCUMENT CONTROL NOTE:

- (7) Wait until the Parted Magic Boot screen shows up.
- (8) Do *not* continue. The software will continue automatically after a while.



Figure 7

(9) Wait until PartedMagic has started.



Figure 8

(10) On the desktop double-click **Disk Cloning**.



Figure 9

- (11) Select the first option:

 Device-image work with disks or partitions using images.
- (12) Press Enter.

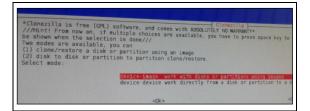


Figure 10

DOCUMENT CONTROL NOTE:

- (13) Select Local_dev.
- (14) Press Enter.

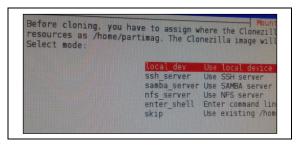


Figure 11

- (15) Connect the USB storage device containing the Operation System.
- (16) Wait 10 seconds.
- (17) Press Enter.



Figure 12

- (18) Select the USB storage device, which is typically **sdb...**
- (19) Press Enter.

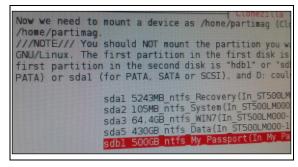


Figure 13

- (20) Select **DXD100_BCK**.
- (21) Press Enter.



Figure 14

- (22) Select Expert. The following steps require expert mode.
- (23) Press Enter.

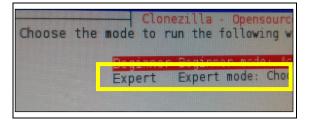


Figure 15

DOCUMENT CONTROL NOTE:

- (24) Select restoredisk.
- (25) Press Enter.

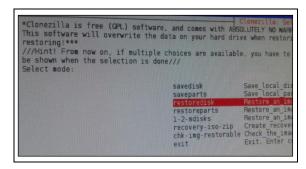


Figure 16

- (26) Select the image that should be used (naming of image can be different compared to screenshot).
- (27) Select **OK** to continue.

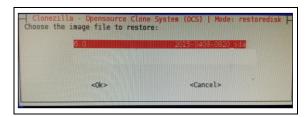


Figure 17: Example

- (28) Select target disk.
- (29) Select **OK** to continue.
- (30) Press Enter.

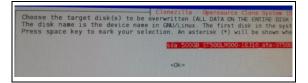


Figure 18

- (31) Confirm a few times with y.
- (32) Wait 10 minutes until the disk is loaded.
- (33) Press Enter.



Figure 19

(34) Click Logout.



Figure 20

- (35) Select Shutdown the computer.
- (36) Click OK.
- (37) Power off the system completely.
- (38) Remove the USB flash drive.
- (39) Remove the PartedMagic DVD.
- (40) Start the system.
- (41) Select Restart later if asked.



Figure 21

3.1 Activate Windows (Windows 7)



NOTE:

Internet access is required to perform the next steps.

- (1) Make sure that the product key is available (see section 1.3).
- (2) Go to Start Menu > Control Panel > System.
- (3) Click Change product key.
- (4) Type the product key.



Figure 22: Activating Windows

4 Adjustments & Options

4.1 If required: Change monitor rotation



NOTE:

In case the Windows login screen is upside down, follow the instructions below.

(1) On the Windows desktop, right-click and select **Graphics properties**.

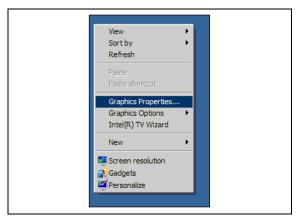


Figure 23

- (2) Select Basic Mode.
- (3) Click OK.

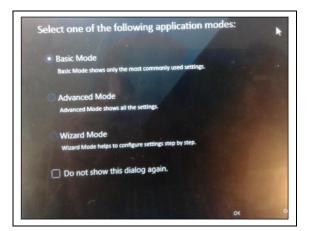


Figure 24

- (4) Change settings if needed.
- (5) If settings were changed, apply them.
- (6) Click **OK**.
- (7) The monitor rotation must always be followed by a touch screen calibration procedure as described in section 4.2.



Figure 25

4.2 Adjust touch screen setting



NOTE:

On some systems it is possible that the touch screen is connected to another COM port than the default COM2 inside the PC (touch screen will not work then). In that case, remove touch screen driver, restart PC and reinstall the EloTouchDriver to adjust for COM2.

To remove touch screen driver, go to **Control Panel > Programs and features**. The driver can be found under: **C:\Drivers\SW602211 EloMouseTouch 5.5.3**

- (1) Run **Setup.exe**.
- (2) Select Install serial Touchscreen Drivers.
- (3) Select Autodetect.
- (4) Make sure that COM2 is used.
- (5) Right-click the **Elo** icon in the task bar.
- (6) Click **Align** and follow the further instructions on the screen.

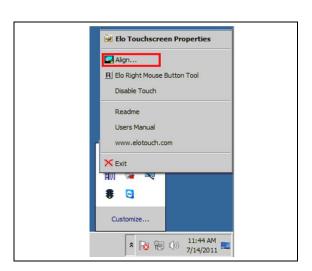


Figure 26

DOCUMENT CONTROL NOTE:

(7) Again, right-click the **Elo** icon in the task bar.

(8) To use the right mouse button tool, click Elo Right Mouse Button Tool. This opens the right mouse button tool.



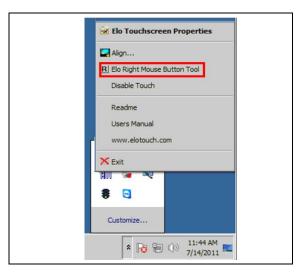


Figure 27



NOTE:

It is recommended to complete installation and setup with USB mouse and USB keyboard connected.

4.3 Adjust PC's date and time and timezone

- (1) Go to Start menu > Control Panel > Date and Time.
- (2) Adjust to your local date and time if necessary.

4.4 Optionally remove MSE

The clean installed disk image contains an installed version of Microsoft Security Essentials (MSE, antivirus software). If this feature is not required, it is possible to uninstall this feature via **Control Panel > Programs and Features**.

Be aware that the MSE software can have a serious performance impact on the NX. For more details see section *Installation appendix* of the *NX/MUSICA Acquisition Workstation - Service Manual*, Document ID <u>74737949</u>.

4.5 Option for use with wireless mouse: Install Bluetooth stick driver

- (1) Download the driver installer software from the Agfa Medimg Library.

 Direct Radiography > DX-D 100 Wireless > Software
- (2) Unzip the downloaded file (DX-D100_SW_Parani-UD100a_CDROM_Bluetooth.zip).
- (3) Navigate to the **Install_files** folder.
- (4) Execute the **setup.exe** file.
- (5) The **Choose Setup Language** dialog box appears.
- (6) Select a language.
- (7) Click **OK**.

The InstallShield wizard starts.

(8) Follow the instructions of the wizard to install the Bluetooth driver.



Figure 28

5 Install NX software

- (1) Log in using crservice account.
- (2) Insert the NX Starterkit DVD 1 or the NX USB flash drive.
- (3) Browse to:
 - Service Software > NX Application NX X* folder (* latest released NX version)
- (4) Double-click the **NX X* (Build.X.X.XXXX).exe** file and follow the installation wizard.
- (5) Shut down the NX Workstation after finishing the installation wizard.
- (6) Restart the NX Workstation.
- (7) Remove the Starterkit DVD 1 / USB flash drive.



NOTE:

After the first restart of the system, Windows may detect the USB dongle as "new hardware" and the installation wizard pops up.

Follow the instructions of the wizard to install the WIBU drivers.

6 Install all necessary NX subcomponents and Hotfixes

6.1 Install applicable subcomponent software

- (1) It is strongly recommended to use the ELMS Software Collection Tool to install all necessary NX related installers (e.g. XRDI, Sedecal SoftConsole, detector software).
- (2) In case of manual installation, refer to the NX/MUSICA Acquisition Workstation Service Manual, Document ID 74737949, chapter Loading installers, licenses and activating configuration.

6.2 Install latest Hofixes

Observe the information in the NX Bulletins *Current status of NX Windows 7 and Windows 10 hotfixes*, e.g. Document ID <u>73386055</u>.

Windows 7 hotfixes are available from

- FUSE or
- ELMS (it is possible to create a Windows 7 hotfix installer using the ELMS Software Collection Tool).

For details see also *NX/MUSICA Acquisition Workstation - Service Manual*, Document ID 74737949 and FUSE - Service Manual, Document ID 23977509.

6.3 Load ALF (license file) and activate NX



NOTE:

Re-using the existing license is only possible if the used hardware and the software versions (including the NX version) after the clean installation are identical to the ones before the clean installation.

If there is any difference in hardware (for example when the PC has been exchanged) or software versions, a new license from ELMS is required.

6.3.1 Load existing ALF - PC not exchanged

A license file needs to be loaded to NX to allow activation of the NX.

Skip this step when the ALF that was created with the ELMS Software Collection Tool has been executed on the NX. This installs the license file automatically.

For more information how to load the ALF, refer to *NX/MUSICA Acquisition Workstation - Service Manual*, Document ID <u>74737949</u>, chapter *Loading Licenses and Activating the Installation*.

6.3.2 Create new ALF File- PC exchanged

When replacing a PC, a new NX license file (ALF) is required.

It is important to follow the "ELMS swap PC workflow" to obtain the new ALF file.

- For instructions refer to the NX/MUSICA Acquisition Workstation Service Manual, Document ID 74737949, chapter Installation and configuration, chapter Obtaining a new ALF file when replacing a PC (ELMS Swap PC workflow).
- Refer also to the Online Help in ELMS, section "Licensing flow for a new MAC address".

Enclosure

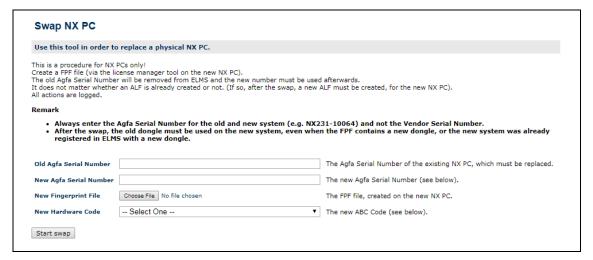


Figure 29: Screenshot of NX Swap PC procedure in ELMS

6.3.3 Activate NX

Via activation the NX features are loaded depending on the license file.

When executing the ALF, created with the ELMS Software Collection Tool, this step is initiated automatically.



NOTE:

When installing a system with a DX-D 40/45 detector and System Control Unit (SCU), make sure to connect and power ON the SCU.

For more information how to activate the NX, refer to *NX/MUSICA Acquisition Workstation - Service Manual*, Document ID <u>74737949</u>, chapter *Loading installers, licenses and activating configuration.*

6.4 Optionally: Install LED Status Indicator drivers



NOTE:

This step is only necessary if the LED Status Indicator ("beacon light") is installed.

- (1) Download the software driver installer from the Agfa Medimg Library. Direct Radiography > DX-D 100 Wireless > Software
- (2) Execute the CP210x_VCP_Win_XP_S2K3_Vista_7.exe file.



NOTE:

The following routine will run two installers. When the first installer has finished, the second one will follow automatically.

- (3) Open the Windows Control Panel.
- (4) In the Windows Control Panel, select **Device Manager > Ports.**
- (5) Right-click Silicon Labs
- (6) Select Properties / Port Settings / Advanced.
- (7) Check the COM Port Number.
- (8) Write down the COM port number (example "7").

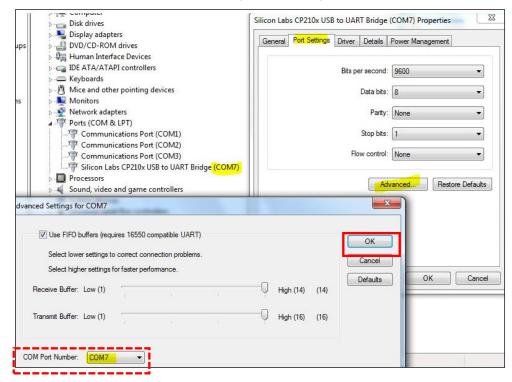


Figure 30

DOCUMENT CONTROL NOTE:

- (9) Click **OK** to finish this procedure.
- (10) Open a text editor.
- (11) In the editor, open the **Leds.xml** file in the **C:/Agfa/Healthcare/Sedecal** directory.
- (12) In the text file, search for <port> </port>.
- (13) Change the port as noted down in step (8) (for example <port>7</port>).
- (14) Close the editor.
- (15) Save the Leds.xml file.
- (16) Open SserialConfigXML.xml file in the C:/Agfa/Healthcare/Sedecal directory.
- (17) In the text file, search for **<LED> </LEDS>**.
- (18) Change the value to 1 (<LEDS>1</LEDS>).
- (19) Close the editor.
- (20) Save the SserialConfigXML.xml file.

7 Network settings (IP address)

This section describes the settings that will be applied by production.

(1) Adapt the default network settings if needed. See previously noted IP addresses (see section 1.2).

Default settings:

The configured IP address of the Access Point and IP address of the network interface card (NX) depends on the detector used:

	Recommended IP address			
	Network interface	e in NX	Access point	
Detector	IP address	Related subnet mask		
DX-D 30/35	192.168.100.20	255.255.255.0	192.168.100.200	
DR 10s/14s	192.168.100.20	255.255.255.0	192.168.100.200	
DX-D 40/45	169.254.0.50	255.255.0.0	External AP: 169.254.2.200 Mini SCU: 169.254.2.100	
XD 10/14/17	169.254.0.50	255.255.0.0	169.254.2.100	
DR 10e/14e/17e	192.168.0.10 *	255.255.255.0	192.168.0.20	

^{*} The IP address must be 192.168.YYY.10 (YYY = 0 for IRI \leq 2.1 or YYY = 0 to 255 for IRI \geq 3.0); Adapter name must be Eth1.

Refer also to figures below, the *DR wireless networking - Service Manual*, Document ID <u>58221971</u> and the respective detector manual.

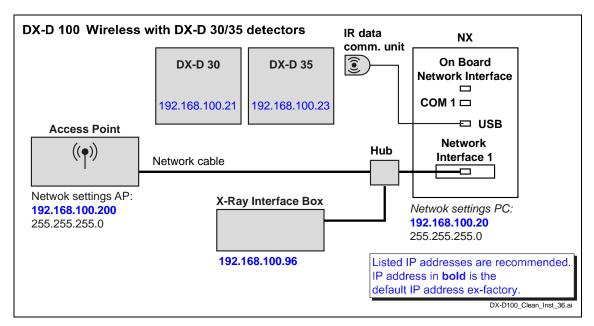


Figure 31: Network setting DX-D 30/35

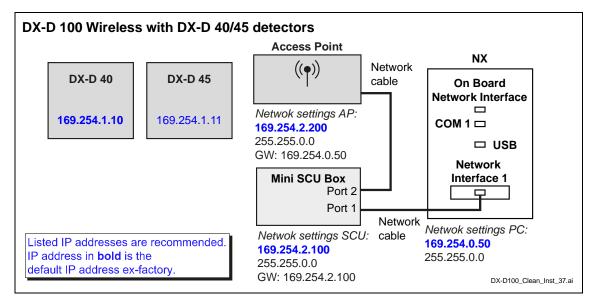


Figure 32: Network setting DX-D 40/45

DOCUMENT CONTROL NOTE:

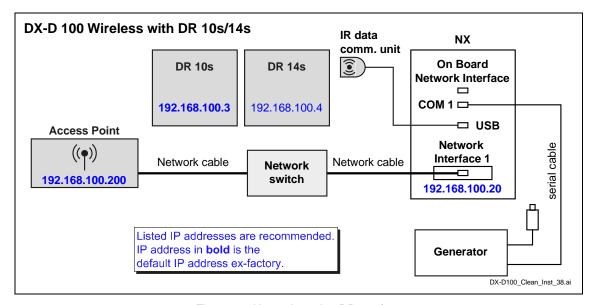


Figure 33: Network setting DR 10s/14s

NOTE:

For DR 10e/14e/17e detectors the name of the wireless network adapter has to be changed to "Eth1".

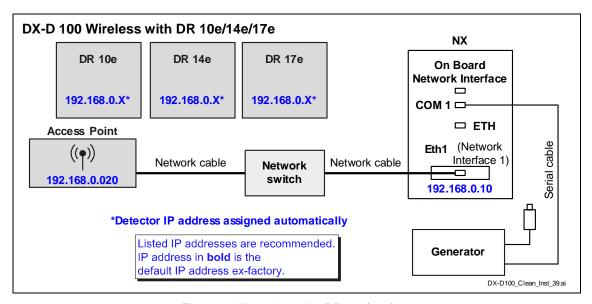


Figure 34: Network setting DR 10e/14e/17e

DOCUMENT CONTROL NOTE:

Enclosure

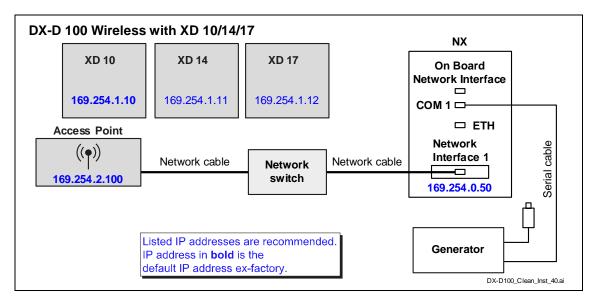


Figure 35: Network setting XD/XD+10/14/17

Document ID: 74291906

8 Install and configure detectors

8.1 DX-D 10/20 detectors (DX-D 100 only)



NOTE:

On a WIN 7 PC an upgrade to VRN 8.0 with Intel® PRO/1000 or with Intel® I210-T1 network cards is possible.

For details refer to DX-D 100 - SB111 - DX-D 10/20/Fixed detector software VRN 8.0 released, Document ID 67257724.

For installation instructions refer to

- DX-D 10 / DX-D 20 / DX-D Fixed Detector Service Manual, Document ID 41222172
- (1) Make sure to use the Varian Detector DAT file of the original installation.

For detector configuration refer to section 9 Configure NX.

8.2 Wireless detectors (DX-D 100 Wireless only)



NOTE:

When using DX-D 40/45 Detectors, make sure to *disable* the Access Point functionality on the mini SCU, if there is one.

For installation instructions refer to the dedicated detector manuals:

- DX-D 30C / DX-D 35C Detector Service Manual, Document ID 41477269.
- DX-D 40 / DX-D 45 / DX-D 60 Service Manual. Document ID 45016244.
- DR 10s / DR 14s Service Manual, Document ID 53659727.
- DR 10e / DR 14e / DR 17e Service Manual, Document ID 58669036.
- XD 10 / XD 14 / XD 17 Service Manual, Document ID 74858636.

For detector configuration refer to section 9 Configure NX.

9 Configure NX

9.1 Load backup in NX Configuration Tool

By loading the backup, the detector configurations are restored also.

- (2) Stop NX.
- (3) Start NX Configurator, e.g.: Start > All Programs > AGFA > NX > Start NX Configurator
- (4) Click Load a configuration from an external file and load the backup of the NX configuration file (see section 1.2).

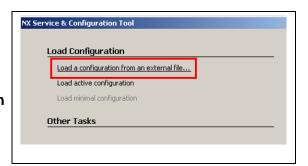


Figure 36

10 Configure Sedecal SoftConsole

10.1 Adjust Sedecal SoftConsole files

- (1) Use the backup files (see section 1.2) to change the following files.
- (2) It is recommended to compare backup and new file and then adapt the *new* file accordingly.
 - C:\Agfa\Healthcare\Sedecal\SiteConfig.xml
 - C:\Agfa\Healthcare\Sedecal\SedecalConfig.xml
 - C:\Agfa\Healthcare\Sedecal\ExtConsoleConfig.xml
 - C:\Agfa\Healthcare\Sedecal\Leds.xml

11 Verify clean installation

(1) Perform a DR workflow as described in *Service Quality Test – Instructions*, Document ID <u>54513844</u>.

DOCUMENT CONTROL NOTE:

12 Create backup of NX configuration data

After the clean installation, it is recommended to create a backup of the NX configuration data, refer to the *NX/MUSICA Acquisition Workstation - Service Manual*, Document ID 74737949.

Enclosure Document ID: 74291906

Explanation of notes 13

Safety-relevant notes

Icon	Signal word	Situation
<u> </u>	CAUTION:	Hazardous situation which, if not avoided, can lead to a minor injury to a user, engineer, patient or any other person.
<u>^</u>	WARNING:	Hazardous situation which, if not avoided, can lead to a potential serious injury to a user, engineer, patient or any other person.
<u> </u>	DANGER:	Direct, immediate danger: If not avoided, it can lead to a serious injury to a user, engineer, patient or any other person
	-	Instruction to avoid damage to equipment and/or environmental pollution.
0	-	Prohibition to avoid damage to equipment and/or environmental pollution.

Non-safety-relevant notes

Icon	Name	Type of information	
	IMPORTANT:	Highlights very important actions which have to be carried out to prevent malfunction.	
	NOTE:	Indicates advice to facilitate the following step or action without having a direct influence on the step or action.	
		Highlights unusual points.	
		Indicates background information.	
		Can be used to explain or highlight displays of the graphical user interface.	

Conventions 14

Style	Use case	Example
(1) Step 1 (2) Step 2	Step by step task description	(1) Connect the cables.(2) Mount the cover.
Bold	Menu topics, keyboard keys, device buttons, commands, and so on	Press F9 or double-click the Refresh button.
Italic	Emphasizing a word or indicating references in continuous text	Do <i>not</i> insert the USB flash drive yet. Refer to section 10, <i>Release</i> information.
Courier bold	System messages	When the success message appears, close the window.