AGFA *Agfa*
HealthCare
Imaging Services

Service Bulletin

New WLAN Adapter Available for Solving Performance and Connection Reliability Issues

Task

Timing	Category		Scope
Next service as agreed with customer	○	**Apply at all sites**	**PowerHelp complaint / HQ issue: HQ_1110270002**
	⊙	**Apply at affected sites as listed below**	
	○	**Optional to improve functionality of product**	

Task Tracking

After completion of your task the following entry in your Service Report is required:	DD+DIS179.12E	*

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

Purpose of this document:

This document informs about the availability of a new WLAN Adapter for the DX-D 100 solution.

This WLAN Adapter will support the IEEE802.11n protocol to ensure operation in all hospital environments.

The upgrade to Windows 7 improves log-off and battery conservation functionalities

Affected serial number(s) / batch: This Service Bulletin is only applicable for XP-based DX-D 100 systems.

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.

✓ NOTE:

This Bulletin replaces the earlier Service Bulletin No. 11 - DD+DIS086.12E, External USB Adapter available for Solving Performance and Connection Reliability Issues.

1 Introduction/purpose

Symptoms   Several (connectivity) issues with the current WLAN Adapter on XP-based
DX-D100 installations.

Cause   The IEEE802.11n protocol was not supported by the temporary solution
(see Service Bulletin No. 11 - DD+DIS086.12E).

Solution   Install the Upgrade Kit as described in section 3.

2 Prerequisites

SPARE PARTS:

DX-D 100 Upgrade Kit, Spare Part Number CM+6056420, consisting of the following
components:

- SparkLAN WUBR-507N WiFi network card
- DX-D 100 on/off board
- Installation instruction (WiFi on/off antenna)
- WIN7 upgrade license sticker on PC (WIN XP to WIN7)

NOTE:

The upgrade license is limited to a quantity of 40 pieces and can not be ordered anymore
because only a limited number of XP systems (< 40) were delivered to the field.

SOFTWARE:

Download the T605220.0 Sparklan Driver RT2870_V3.2.1.0 from the HealthCare Library:
Direct Radiography → DR Equipment → DX-D 100 → Software

TOOLS:

Standard service engineers' tool kit
Flash storage device for storing the T605220.0 Sparklan Driver RT2870_V3.2.1.0

REFERENCED DOCUMENTS:

DX-D 100 - Clean Install Procedure, DD+DIS040.11E
Direct Radiography → DR Equipment → DX-D 100

3   Instructions

REQUIRED TIME:

Approximately 45 minutes for installing the Upgrade Kit, the driver for the SparkLAN WUBR-507N WiFi network card and the softconsole.

CAUTION:

Keep the unit turned off and isolated from the power supply.

3.1   Replacement procedure for the WiFi board kit:

(1)   Remove the frame that encloses the touch screen monitor.
(2)   Remove the rear cover.

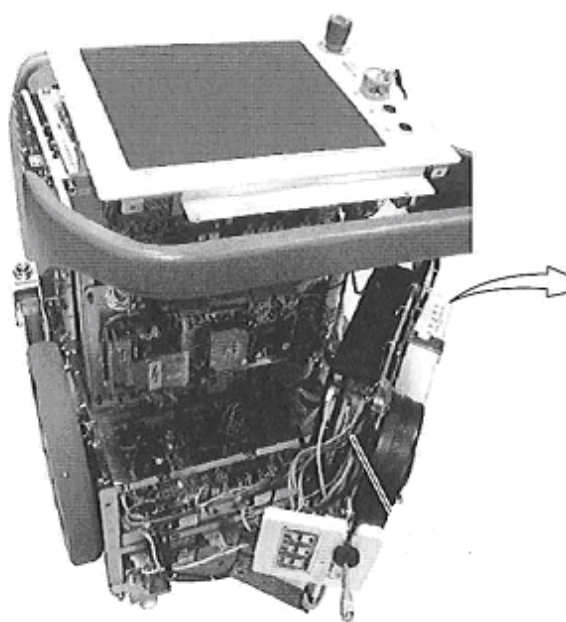(3)   Open the PC unit (pivot PC module on the right).

Figure 1

(4)   Once the back cover has been
       dismounted from the mobile unit, open
       the PC module and unplug all the PC
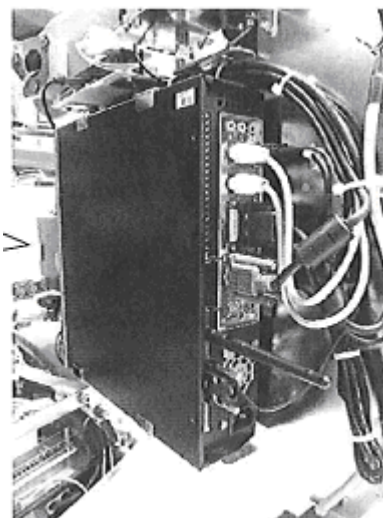   connectors (see Figure 3 below).

Figure 2

(5)   Loosen the screws of the PC
       fixing system to dismount the PC.

(6)   Place the PC on a table and dismount
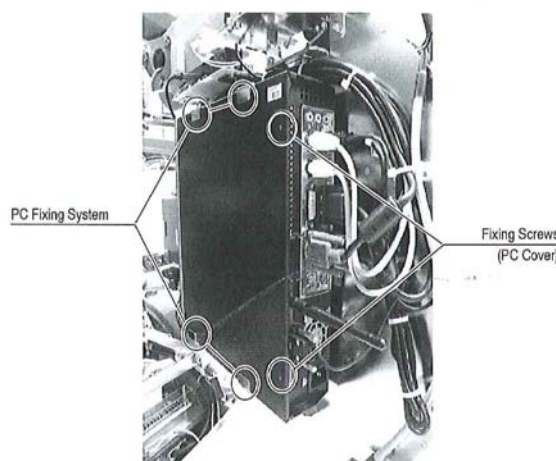   the cover by removing the fixing screws
       (see figure 3).

Figure 3

(7)   At he back of the PC, remove the fixing
       screw and dismount the fixing plate in
       order to remove the auto ON/OFF PCB
       in the next step.

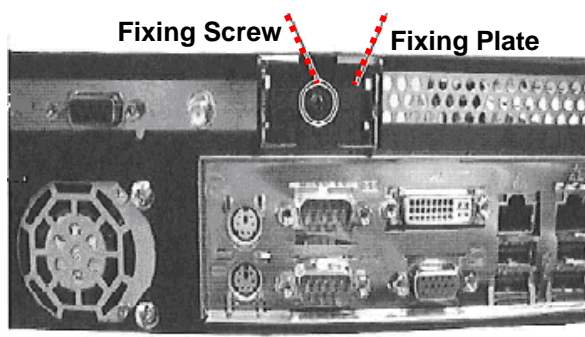Figure 4

(8)   Inside the PC, remove the WiFi fixing screws, disconnect the power supply cables of the WiFi PCB and the auto ON/OFF PCB, then remove both boards.
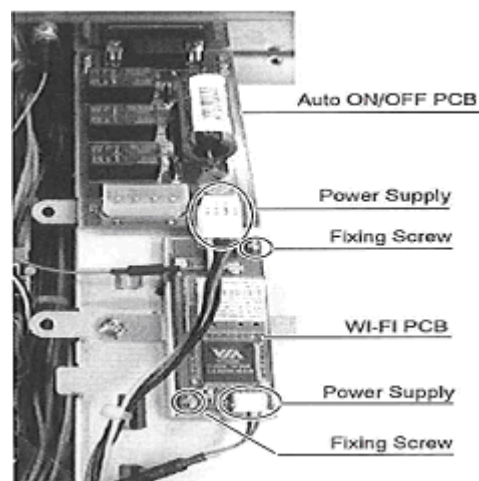

Figure 5

(9)   Install the PCB inside the PC.

Figure 6

(10) Install the new auto ON/OFF mobile PCB inside the PC.
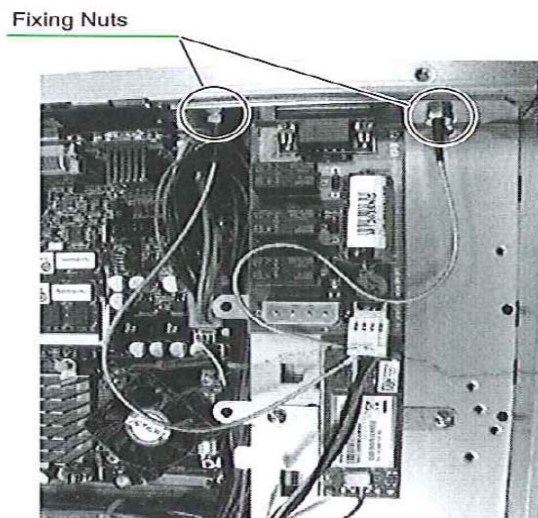
(11) Connect the power supply cables of each board.

Figure 7

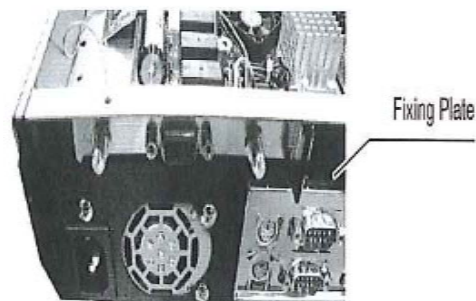(12) At the back of the PC housing, fasten
      the fixing plate.

Figure 8

(13) Mount the PC cover, install the PC in the PC module with the fixing system and
      connect all the pc connectors.
(14) Close the PC housing.
(15) Restart the PC.

After restart, install the driver for the SparkLAN WUBR-507N WiFi network card:

(1) Insert the Flash drive medium at the PC.
(2) Extract `Sparklan Driver RT2870.zip` from flash drive.
(3) Double-click the exe inside: `IS_AP_STA_RT2870_D-3.2.1.0_VA-3.2.1.0_W7-`
     `3.2.1.0_RU-4.1.0.0_AU-4.1.0.0_051011_1.5.12.0WP_Free.exe`
(4) Select `<install driver only>` and continue installation.

3.2   Installation of WINDOWS7

(1) Install Windows 7 according to the DX-D 100 Clean Install Procedure
     (see 'Referenced Documents' above).
(2) Put the Microsoft WIN7 license sticker on the PC when the upgrade has been
     performed. (License key is asked during install O.S).

IMPORTANT:
Check if the Sparklan Driver is still installed after finishing the Clean Install Procedure!

4 Verification

Check if performance and connection reliability of the DX-D100 are stable after installation of the Upgrade Kit.

Check if the IEEE802.11n protocol is supported after installation of the Upgrade Kit.

Check if the connection to the hospital network is working.

5 Keywords

WiFi, WLAN, Upgrade Kit, IEEE802.11n protocol

6 Version history

Version	Change	Date
1.0	Initial Version	08-2012

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