AGFA *Agfa*

Radiology Solutions Services

DR 100e	Type 6012	No. 56
DR 100s	Type 6013	No. 56
DR 400	Type 5520	No. 178
DR 600	Type 5530/100	No. 227
DR 800	Type 6010	No. 67
DR Retrofit	Type 5400	No. 141
DX-D 100	Type 5410	No. 143
DX-D 100 Wireless	Type 5411	No. 196
DX-D 300	Type 8207	No. 181
DX-D 400	Type 5420	No. 134
DX-D 600	Type 5430	No. 202
Valory	Type 5540	No. 22

Document ID: 80887377

Service Bulletin

Service Quality Test Tool version 3.0 released

Task

Timing	Category		Scope
⦿ **Next service as agreed with customer**	◯ **Apply at all sites**		⦿ **Problem Record: PRB2000900**
	⦿ **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:	**80887377**	*

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

Purpose of this document:

This document announces the release of Service Quality Test (SQT) Tool version 3.0.
Main goal of SQT 3.0: Make the SQT more efficient.

Affected systems:
The Service Quality Test Tool is used for all DR systems listed on the front page of this document.

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.

Version 1.0
12-2022

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1 Introduction

Version 3.0 of the Service Quality Test Tool (SQT) is available for download.
It replaces the previous version 2.3.
Purpose of SQT 3.0:
- Improve the SQT by implementing several enhancement requests. Main goal: Reduce the overall effort.
- Solve one Problem Record.

It is recommended to use only the SQT 3.0 from now on.

1.1 Solved Problem Record

1.1.1 SQT test 1.3 "ms accuracy" fails [PRB2000900]

Symptom SQT test 1.3 "ms accuracy" fails on DX-D 100, DX-D 400, DX-D 300 and DX-D 600.

Cause Requested value "63 ms" not selectable on the Sedecal Generator and the related limit values for measured ms values are not realistic.

Workaround None

Solution In SQT 3.0 the limit values are adapted so that the test can be performed successfully.

1.2 Improvements

- Several tests are classified as optional. A test can be skipped, for example, if this test is not mandatory in a specific region. If the test is skipped, a reason must be given in the SQT comment field.
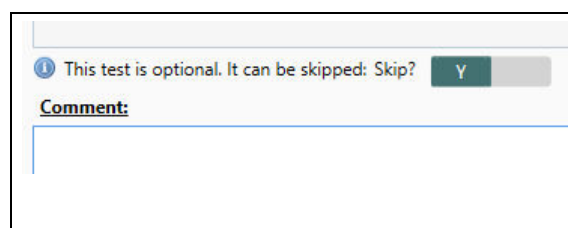

Figure 1: SQT comment field for optional tests

- Improved test sequences of specific activities (for example first make tests on Table, then on Wallstand) to have the tests performed in a more efficient order.
- A "Next" button is included in the test screen. This allows to immediately go to the next test instead of having to go back to the Test Run Overview screen.
- Combined several tests to increase efficiency:
  - Tests 1.1, 1.2 and 1.3 are combined to tests 1.1.1 and 1.1.2.
  - Tests 5.4, 5.5 and 5.6 are combined to test 5.4.
  - Tests 5.11, 5.12 and 5.13 are combined to test 5.11.
- The limit value ranges are improved, taking the measurement accuracy into account.
- For test 4.5, 4.6 and 5.10 the Bucky selection is improved: When only one option exists, this is automatically selected.
- Test 1.8 "Half Value Layer" is now an optional test for all DR systems. Before it was a mandatory test for DR 800 only [RITM2142416].

- For all DR systems, the effort for preventive maintenance activities is reduced to what is minimum required.
- Clarified focal spot size selection for several tests.
- Removed step for DR 800, to look up dose values in a conversion table for AEC cut-off-dose tests Table (Test 3.1) and Wallstand (Test 3.6). Now the conversion factor is included in the SQT.
- For test 4.8 (Collimation Accuracy - Wallstand / Table), the collimation sizes 43 x 43 cm, 30 x 30 cm, 15 x 15 cm are checked only to reduce the effort.
- Improved navigation by TAB and Enter key on several tests.
- SQT guidance for the dosimeter position is optimized.
- For DR 400, DR 600 and Valory the acceptance criteria for AEC tests 3.1, 3.5, 3.6 and 3.10 have been changed, to be open for new types of AECs.
  Before: Allowed deviation = ± 0.5 µGy. New: Allowed deviation = ± 10%.
  For AEC tests 3.4 and 3.9 the acceptance criteria have been changed to ± 10% for all DR systems.
- Test 1.9.1 "Maximum Patient Dose Rate Adults" is shifted to the end to prevent ghosting artifacts on other tests.
- Free detector position is not possible for test "2.3 DAP Meter Accuracy Fluoro". This is corrected now.
- Several details in the SQT Service Manual (Document ID 54513844) have been improved.

2   Prerequisites

SOFTWARE:
- Service Quality Test Tool 3.0 ZIP File (≈ 13 MB), Document ID 55022710, comprising:
  - SQT_3.0.0200.exe incl. test instructions* (Online help)
  - Using the SQT.PDF (short instructions)
- Excel ≥ 2007
- Adobe Acrobat Reader or Adobe Acrobat.
  Other PDF readers in general also work, but they will not open the SQT instructions with the specific page for the test.

Download the SQT 3.0 from the Agfa Medimg Library or directly from the AgfaBox. For details refer to the Service Information Bulletin "AgfaBox replaces Fileshare for software downloads", Document ID 71987422.

* SQT instructions can also be downloaded separately with Document ID 54513844.

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:

- 5 minutes: Download of SQT 3.0
- 1 minute: SQT 3.0 installation
- 5 minutes: Installation of .NET Framework 4.8 if not yet available

(1) Download and install the SQT 3.0.
SQT 3.0 automatically uninstalls SQT 2.3 (or earlier versions) and preserves the available SQT site and system database. The SQT is installed in directory C:\Agfa\HealthCare\SQT.

IMPORTANT:

- The list of "Incomplete Test Runs" is not preserved during SQT upgrade.
- When installing the same or previous SQT version, the "site and system database" (function "Select from History") is deleted. Reason: When the same or previous version is installed, it is assumed that it was intended to repair the SQT.

4   Verification

⚠️ IMPORTANT:
After the service intervention, make sure that the device is operational as intended, before you hand it over to the customer.
Follow the instructions in this section precisely.

(1)   Start the SQT 3.0 using the shortcut in the start menu
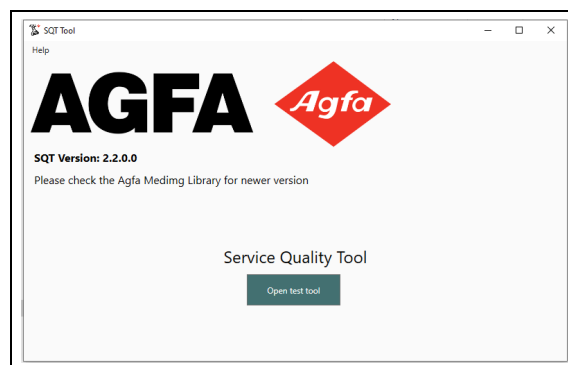

(2)   Confirm that the SQT 3.0 start page appears.

Figure 2

(3)   If error message **This application requires …. .NETFramework,Version=v4.8** appears, click **Yes** and follow the instructions to install it.

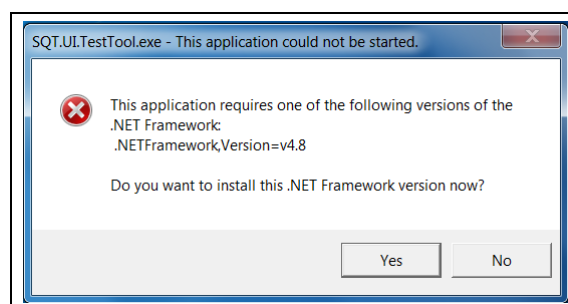This error should only appear for new SQT installations.

Figure 3

5   Keywords

SQT, ATP

6   Version history

Version	Change	Date
1.0	Initial Version	12-2022