



Provincial Health Services Authority

SOFTWARE UPGRADES TO BREAST IMAGING SYSTEMS PROCEDURE: BREAST SCREENING

(QUALITY MANAGEMENT – SG-DG 700)

Summary of Changes

	NEW	Previous
BC Cancer	Terminology and New template	February 2018; July 2011

Last Revised:	15/JUNE/2023	Next Review:	15/JUNE/2026	
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1. Introduction

1.1. Focus

Software upgrades or changes are considered by the Program to be major repairs. A medical physicist will determine the proper extent of their involvement in evaluating the software change.

The focus of this procedure is to outline the process for software upgrades to Breast Imaging systems that undergo changes.

1.2. Health Organization Site Applicability

All BC Cancer Breast Screening Centres

1.3. Practice Level

- Breast Screening Program Chief Technologists
- Breast Screening Program Radiologists
- Breast Screening Quality Assurance Support Group
- Provincial Practice Leader
- Breast Screening Centre Managers

1.4. Need to Know

Upgrades may change the equipment's SDNR values, or DICOM information.

Upgrades may cause delays in Virtual Private Network (VPN) access to those centres whom access MagView through a VPN tunnel.

2. Procedure

2.1. Steps and Rationale

Workflow Step	#	Procedure	Role
Notify The Program	1.	<p>Inform the Provincial Practice Leader and Breast Screening Quality Assurance (QA) Support Group by email, regarding all software upgrades or changes for all digital mammography equipment 30 days prior to installation; include the software version.</p> <p>This includes any upgrades to the following:</p> <ul style="list-style-type: none">• Acquisition Workstation• Review Workstation	<p>Centre Managers</p> <p>Chief Technologists</p>

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Workflow Step	#	Procedure	Role
		<ul style="list-style-type: none"> Image Archive (PACS) Firmware Internet Service Provider and/or related hardware/software RIS Systems <p>If the upgrade is not listed above/ or the facility is unsure as to the full extent of the upgrade, the Centre Manager should consult their program medical physicist and/or the Provincial Practice Leader to determine the proper extent of their involvement in evaluating the item.</p>	
	1.2	Forward to the Provincial Practice Leader and Breast Screening Quality Assurance (QA) Support Group by email any information or bulletins received by the Screening Centre regarding equipment updates.	Centre Managers Chief Technologists
Software Upgrade Approval	2.	Consult with the Service Engineer prior to software installation to determine the degree of evaluation necessary before participant examinations may continue.	Program Physicist
	2.2	Determine if testing is required for evaluation by the Breast Screening Centre's Program Physicist or Chief Technologist, under the supervision of the physicist. Note: If there is an equipment upgrade or change which results in changes to the SDNR value output, the Centre's baselines may need to be re-established.	QA Support Group
	2.3	Approve the software upgrade; the software can then be installed.	QA Support Group
Perform Acceptance Testing	3.	Perform Acceptance Testing if determined by the QA Support Group.	Program Physicist Chief Technologists
	3.2	<p>If there are changes to the SDNR values, the Centre's baselines may need to be re-established.</p> <p>Contact your Program Physicist prior to resetting your values.</p>	Centre Managers Chief Technologists

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3. Related Documents and References

3.1. Related Documents

[SG 100 - Equipment Testing Post Initial Install and Following Service Repairs Procedure](#)

[SG 110 – Equipment Test Failure Protocol](#)

SG 210 – Breast Screening Home Reporting Standards

[SG-DG 400 – Breast Screening Standard for Soft Copy Display \(Workstations\)](#)

[SG-DG 500 – Breast Screening Standards for DICOM Header Required Tags](#)

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