

Cenova™

Image Analytics Servers



Cenova™ Image Analytics Server
Cybersecurity Product Report
Software Version 4.0
MAN-03654 Revision 004

HOLOGIC®

Cenova™

Image Analytics Server

Cybersecurity Product Report

For Software Version 4.0

Part Number MAN-03654

Revision 004

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Product Support

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Table of Contents

- 1. Introduction** **1**
- 1.1 Audience 1

- 2. Cybersecurity** **1**
- 2.1 Manufacturer Disclosure Statement for Medical Device Security 1
- 2.2 Windows Domain and Active Directory 1
- 2.3 Third-Party Software Packages..... 2
 - 2.3.1 Antivirus 2
 - 2.3.2 Intrusion Detection 2
 - 2.3.3 Encryption..... 2
- 2.4 Operating System Patches 3

1. Introduction

Hologic® is a leading developer, manufacturer and supplier of premium diagnostics, medical imaging systems and surgical products dedicated to serving the healthcare needs of women. Making sure the integrity of our systems and the business continuity of our customers is a top concern for Hologic. The Cenova™ image analytics server from Hologic processes 2D and 3D Mammography™ images using proprietary software algorithms such as ImageChecker® computer-aided detection (CAD) and Quantra™ volumetric breast density assessment.

1.1 Audience

The intended audience includes the systems administrator, network administrator, and/or security personnel. The reader of this document should be familiar with operating systems, networking, and security of computer systems.

2. Cybersecurity

The following sections of this document outline security features and guidelines specific to Cenova. For additional guidance or assistance in implementing security features on Cenova systems, please consult Hologic Technical Support.

2.1 Manufacturer Disclosure Statement for Medical Device Security

For many products, Hologic uses the Manufacturer Disclosure Statement for Medical Device Security (MDS2) to provide HIPAA-related security information about its products. The latest version of the Cenova MDS2 is found in the Image Analytics Resources section of the Hologic website.

2.2 Windows Domain and Active Directory

Starting with version 2.1, Cenova supports the use of Active Directory as a mechanism for user authentication. Prior versions do not support this functionality.

2.3 Third-Party Software Packages

2.3.1 Antivirus

The use of antivirus software is recommended for Cenova. Use the installation instructions supplied with the antivirus software product for installation and configuration. If antivirus software is installed, exclude the following application and image data directories¹ from real-time scanning. If the directories are not excluded, they may affect product performance.

- Cenova 4.0 and later:
 - C:\Program Files (x86)\Hologic\
 - C:\CasesFolders
 - C:\ProgramData\Hologic\Cenova
- Cenova 3.0 and earlier:
 - 64-bit system: C:\Program Files (x86)\Hologic\
 - 32-bit system: C:\Program Files\Hologic\
 - C:\CasesFolders

2.3.2 Intrusion Detection

Real-time intrusion detection monitoring software is not recommended to be run when Cenova software is active because it may affect the system performance. When Cenova software is idle, intrusion detection can be run in an offline manner on the system.

2.3.3 Encryption

Some Cenova hardware implements FIPS 140-2 security standard for encryption. If encryption is desired, disk encryption is the recommended method of implementation. Software encryption running on the system may affect performance of Cenova. Use installation instructions provided with the encryption software product for installation and configuration. Folder encryption can be employed on the folders listed in the previous Antivirus section. It is recommended to consult Hologic Technical Support to better understand the implications of such encryption on performance.

¹ The paths for these directories may be different for Cenova software-only installation.

2.4 Operating System Patches

Cenova 3.0 and earlier run on the Microsoft® Windows® 7 operating system, and Cenova 4.0 and later run on Windows 10. Microsoft frequently creates patches, service packs, and critical security updates to address potential vulnerabilities in these operating systems.

Because vulnerabilities and updates may occur on a more frequent basis, and the risk due to vulnerabilities is generally greater than the impact of a fix, customers may implement Automatic Updates for Microsoft Windows. For additional guidance on implementing Automatic Updates, consult Hologic Technical Support.

Patch release reports of approved patches are available on the Hologic website. It is recommended to have a rollback strategy when applying patches that are not included in the Hologic patch release reports.