

# IT Cybersecurity

## Definium & AMX HD X-ray Systems\*



DETECT. PROTECT. SECURE.

Today's healthcare environment is seeing rapid changes in the areas of data privacy and security due to increased risk of cyberattacks, malware and security vulnerabilities.

Are your medical devices protected? GE Healthcare is committed to safeguarding Protected Health Information (PHI) and Personal Information (PI) on medical devices by helping provide barriers to unauthorized access with multiple levels of protection.

### SYSTEM PROTECTION

#### Anti-virus



Definium & AMX HD X-ray Systems **provide anti-virus for protection from malicious software** which monitors files (read or execute) and reports errors to user.

**Benefit:** Monitors **complete X-ray system for malicious viruses** and provides the ability for local and enterprise X-ray system scan.

#### Intrusion detection



Host Based Intrusion Detection evaluates and detects an alteration to X-ray system software.

**Benefit:** **Ensures the integrity of system files** and alerts suspected compromised data.

### INFORMATION PROTECTION

#### Data at rest security



Patient Information (PI) data is **encrypted and stored** on the X-ray system internal hard drive.

**Benefit:** Prevents **compromising of data** in case of remote access or physical theft or hard drive.

#### DICOM® data in transit

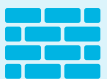


Supports secure interconnections to **external storage systems**. This includes connections to DICOM servers and supports optional DICOM Transport Layer Security (TLS).

**Benefit:** **Provides encryption** when sent to PACS.

### NETWORK CONNECTIVITY

#### Host Firewall Configuration



The X-ray system is protected by a **network firewall**. By default, it is turned on for every network interface.

**Benefit:** Restricts remote access to **ensure security**.

#### System computer (host) characteristics\*\*



Both **DHCP and static IP allocation** are supported, along with **IPv6**.

**Benefit:** Improved performance and **enhanced wireless security features**.

#### Secured detector network



Each wireless network is secured and encrypted by a **passphrase that is automatically computed** upon configuration of the site.

**Benefit:** **Locks down** access to the X-ray system to non-hospital users.

#### Hospital wireless network



The X-ray system can connect to the hospital network via **Wi-Fi, as well as Ethernet cable**.

**Benefit:** **Supports all modern** hospital wireless encryption methods.

## AUDIT & ACCOUNTABILITY

### Audit logging



On device Privacy & Security Audit Logging and Accountability Controls **support security surveillance and privacy investigations.**

**Benefit:** Provides **integrated functionality for audit logging**, including audit logging of privacy related events. Also provides support of local log viewer and remote audit log transfer.

## IDENTIFICATION & AUTHENTICATION

### Access controls



Access control includes user account creation and assigning privileges. Supports enterprise account management.

**Benefit:** Helps control access to **sensitive information.**

### User authentication



The user authentication step verifies the user attempting to access the system is the user **associated with the account given.**

**Benefit:** **Controls access** and provides traceability to exams by users.

### Operating system



The system is based on **HELiOS Linux**, a GE version of Scientific Linux, which is based on RedHat Enterprise Linux.

**Benefit:** Not sensitive to **Windows-based cyber attacks.**

## SERVICE

### Continuity Advance



Allows you to **receive computing system hardware and regular base system software upgrades** to keep your imaging equipment working at modern performance and secure.

**Benefit:** Helps ensure your **technology investments remain current** over the lifecycle of your X-ray systems.

### Remote Service Platform (RSvP)



Enables **remote monitoring, diagnostics and system alerts.** Customer requested remote access sessions for interactive training & troubleshooting.

**Benefit:** Provides **secure connectivity** between GE Healthcare products and GE Healthcare Experts.

### Skeye



Our **Security Operations Center** monitors networked medical devices & responds to cyber events by employing cyber professionals who **proactively leverage artificial intelligence.**

**Benefit:** Cybersecurity solution for networked medical devices, can help **protect your healthcare system** from the ever increasing risk of cyber events.

Compatibility: AMX 240\* AMX Navigate, Definium 646 HD\* Definium 656 HD\* Definium Tempo, Definium Tempo Pro

\* Definium™ 656 HD is a configuration of the Discovery™ XR656HD, Definium 646 HD is a configuration of the Optima™ XR646 HD, AMX 240 is a configuration of the Optima XR240amx.

\*\* Portable X-ray has both DHCP and static IP allocation. Fixed X-ray only has static.

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