

**Manufacturer Disclosure Statement for Medical Device Security – MDS<sup>2</sup>**

**DEVICE DESCRIPTION**

Device Category <b>Specimen Radiography System</b>	Manufacturer <b>Hologic</b>	Document ID <b>MAN-07031</b>	Document Release Date <b>03-13-2020</b>
Device Model <b>Faxitron OR, Core, Path, Path+ and VersaVision</b>	Software Revision <b>3.1.4</b>		Software Release Date <b>July-02-2019</b>
Manufacturer or Representative Contact Information	Company Name <b>Hologic</b>	Manufacturer Contact Information <b>3440 E Britannia Dr, Ste 150 Tucson, AZ 85706 Ph: 520.399.8180 www.hologic.com</b>	
	Representative Name/Position <b>Derek Guikema / Escalation Manager</b>		

**Intended use of device** in network-connected environment:

The Faxitron OR, Core, Path, Path+ and VersaVision are Cabinet x-ray systems that are used to provide digital x-ray images of harvested specimens from various anatomical regions in order to provide rapid verification that the correct tissue has been excised during the biopsy procedure. These images can be transmitted to a PACS network for storage and then reviewed at other radiological stations.

**MANAGEMENT OF PRIVATE DATA**

Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in this form.		Yes, No, N/A, or See Note	Note #
A	Can this <b>device</b> display, transmit, or maintain <b>private data</b> (including <b>electronic Protected Health Information [ePHI]</b> )?	Yes	—
B	Types of <b>private data</b> elements that can be maintained by the <b>device</b> :		
	B.1 Demographic (e.g., name, address, location, unique identification number)?	Yes	—
	B.2 Medical record (e.g., medical record #, account #, test or treatment date, <b>device</b> identification number)?	Yes	—
	B.3 Diagnostic/therapeutic (e.g., photo/radiograph, test results, or physiologic data with identifying characteristics)?	Yes	—
	B.4 Open, unstructured text entered by <b>device user/operator</b> ?	Yes	—
	B.5 <b>Biometric data</b> ?	No	—
	B.6 Personal financial information?	No	—
C	Maintaining <b>private data</b> - Can the <b>device</b> :		
	C.1 Maintain <b>private data</b> temporarily in volatile memory (i.e., until cleared by power-off or reset)?	Yes	—
	C.2 Store <b>private data</b> persistently on local media?	Yes	—
	C.3 Import/export <b>private data</b> with other systems?	Yes	—
	C.4 Maintain <b>private data</b> during power service interruptions?	Yes	—
D	Mechanisms used for the transmitting, importing/exporting of <b>private data</b> – Can the <b>device</b> :		
	D.1 Display private data (e.g., video display, etc.)?	Yes	—
	D.2 Generate hardcopy reports or images containing <b>private data</b> ?	Yes	—
	D.3 Retrieve <b>private data</b> from or record <b>private data</b> to <b>removable media</b> (e.g., disk, DVD, CD-ROM, tape, CF/SD card, memory stick, etc.)?	Yes	—
	D.4 Transmit/receive or import/export <b>private data</b> via dedicated cable connection (e.g., IEEE 1073, serial port, USB, FireWire, etc.)?	Yes	—
	D.5 Transmit/receive <b>private data</b> via a wired network connection (e.g., LAN, WAN, VPN, intranet, Internet, etc.)?	Yes	—
	D.6 Transmit/receive <b>private data</b> via an integrated wireless network connection (e.g., WiFi, Bluetooth, infrared, etc.)?	No	—
	D.7 Import <b>private data</b> via scanning?	Yes	—
	D.8 Other?	N/A	—

Management of Private Data notes:

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**SECURITY CAPABILITIES**

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<b>1</b>	<b>AUTOMATIC LOGOFF (ALOF)</b>		
	The <b>device's</b> ability to prevent access and misuse by unauthorized <b>users</b> if <b>device</b> is left idle for a period of time.		
1-1	Can the <b>device</b> be configured to force reauthorization of logged-in <b>user(s)</b> after a predetermined length of inactivity (e.g., auto-logoff, session lock, password protected screen saver)?	See Note	1
1-1.1	Is the length of inactivity time before auto-logoff/screen lock <b>user</b> or administrator configurable? (Indicate time [fixed or configurable range] in notes.)	See Note	1
1-1.2	Can auto-logoff/screen lock be manually invoked (e.g., via a shortcut key or proximity sensor, etc.) by the <b>user</b> ?	See Note	1
ALOF notes:	1. The system utilizes the Windows Operating System, and can be configured to use relevant Windows tools for User Control, Auditing, Logging, etc. Additionally, the system can be joined to a Active Directory for additional administration capabilities.		

<b>2</b>	<b>AUDIT CONTROLS (AUDT)</b>		
	The ability to reliably audit activity on the <b>device</b> .		
2-1	Can the <b>medical device</b> create an <b>audit trail</b> ?	See Note	1
2-2	Indicate which of the following events are recorded in the audit log:		
2-2.1	Login/logout	See Note	1
2-2.2	Display/presentation of data	No	—
2-2.3	Creation/modification/deletion of data	No	—
2-2.4	Import/export of data from <b>removable media</b>	No	—
2-2.5	Receipt/transmission of data from/to external (e.g., network) connection	No	—
2-2.5.1	<b>Remote service</b> activity	See Note	2
2-2.6	Other events? (describe in the notes section)	N/A	—
2-3	Indicate what information is used to identify individual events recorded in the audit log:		
2-3.1	<b>User ID</b>	See Note	1
2-3.2	Date/time	See Note	1
AUDT notes:	1. The system utilizes the Windows Operating System, and can be configured to use relevant Windows tools for User Control, Auditing, Logging, etc. Additionally, the system can be joined to a Active Directory for additional administration capabilities. 2. Not required or set by default, but may be set up using customer-preferred method (e.g. VPN, etc)		

<b>3</b>	<b>AUTHORIZATION (AUTH)</b>		
	The ability of the device to determine the authorization of users.		
3-1	Can the <b>device</b> prevent access to unauthorized <b>users</b> through <b>user</b> login requirements or other mechanism?	See Note	1
3-2	Can <b>users</b> be assigned different privilege levels within an application based on 'roles' (e.g., guests, regular <b>users</b> , power <b>users</b> , administrators, etc.)?	See Note	1
3-3	Can the <b>device</b> owner/ <b>operator</b> obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?	See Note	1
AUTH notes:	1. The system utilizes the Windows Operating System, and can be configured to use relevant Windows tools for User Control, Auditing, Logging, etc. Additionally, the system can be joined to a Active Directory for additional administration capabilities.		

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<b>4</b>	<b>CONFIGURATION OF SECURITY FEATURES (CNFS)</b>			
The ability to configure/re-configure <b>device security capabilities</b> to meet <b>users'</b> needs.				
4-1	Can the <b>device</b> owner/operator reconfigure product <b>security capabilities</b> ?		See Note	1
CNFS notes:	1. Within the Windows OS the customer can administer the system as needed from a security standpoint. The only requirement is that all users must have the Read/Write capability, otherwise the daily automatic system calibration and image storage will not complete successfully. Contact manufacturer if there are specific questions about additional security.			
<b>5</b>	<b>CYBER SECURITY PRODUCT UPGRADES (CSUP)</b>			
The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade <b>device's</b> security patches.				
5-1	Can relevant OS and <b>device</b> security patches be applied to the <b>device</b> as they become available?		Yes	
5-1.1	Can security patches or other software be installed remotely?		Yes	—
CSUP notes:				
<b>6</b>	<b>HEALTH DATA DE-IDENTIFICATION (DIDT)</b>			
The ability of the <b>device</b> to directly remove information that allows identification of a person.				
6-1	Does the <b>device</b> provide an integral capability to de-identify <b>private data</b> ?		No	—
DIDT notes:				
<b>7</b>	<b>DATA BACKUP AND DISASTER RECOVERY (DTBK)</b>			
The ability to recover after damage or destruction of <b>device</b> data, hardware, or software.				
7-1	Does the <b>device</b> have an integral data backup capability (i.e., backup to remote storage or <b>removable media</b> such as tape, disk)?		No	—
DTBK notes:	System acts as a temporary store of patient data before it is transmitted to PACS			
<b>8</b>	<b>EMERGENCY ACCESS (EMRG)</b>			
The ability of <b>device users</b> to access <b>private data</b> in case of an emergency situation that requires immediate access to stored <b>private data</b> .				
8-1	Does the <b>device</b> incorporate an <b>emergency access</b> ("break-glass") feature?		No	—
EMRG notes:				
<b>9</b>	<b>HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)</b>			
How the <b>device</b> ensures that data processed by the <b>device</b> has not been altered or destroyed in an unauthorized manner and is from the originator.				
9-1	Does the <b>device</b> ensure the integrity of stored data with implicit or explicit error detection/correction technology?		No	—
IGAU notes:				

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<b>10</b>	<b>MALWARE DETECTION/PROTECTION (MLDP)</b>			
	The ability of the <b>device</b> to effectively prevent, detect and remove malicious software ( <b>malware</b> ).			
10-1	Does the <b>device</b> support the use of <b>anti-malware</b> software (or other <b>anti-malware</b> mechanism)?		Yes	—
10-1.1	Can the <b>user</b> independently re-configure <b>anti-malware</b> settings?		Yes	—
10-1.2	Does notification of <b>malware</b> detection occur in the <b>device user</b> interface?		No	—
10-1.3	Can only manufacturer-authorized persons repair systems when <b>malware</b> has been detected?		No	—
10-2	Can the device owner install or update <b>anti-virus software</b> ?		See Note	1
10-3	Can the device owner/ <b>operator</b> (technically/physically) update virus definitions on manufacturer-installed <b>anti-virus software</b> ?		Yes	—
MLDP notes:	1. Yes, the user can install anti-virus software, however it can not be actively run during a procedure. The CT system consumes almost all of the computer processing power (CPU, GPU and RAM) during acquisition and reconstruction of the image data and any programs running in the background would affect the image quality.			
<b>11</b>	<b>NODE AUTHENTICATION (NAUT)</b>			
	The ability of the <b>device</b> to authenticate communication partners/nodes.			
11-1	Does the <b>device</b> provide/support any means of node authentication that assures both the sender and the recipient of data are known to each other and are authorized to receive transferred information?		See Note	1
NAUT notes:	1. In the intended workflow, the device communicates to the RIS/Worklist and PACS servers via DICOM protocol. This communication has a handshake component that provides authentication/verification.			
<b>12</b>	<b>PERSON AUTHENTICATION (PAUT)</b>			
	Ability of the <b>device</b> to authenticate <b>users</b>			
12-1	Does the <b>device</b> support <b>user/operator</b> -specific username(s) and password(s) for at least one <b>user</b> ?		Yes	1
12-1.1	Does the device support unique <b>user/operator</b> -specific IDs and passwords for multiple users?		See Note	1
12-2	Can the <b>device</b> be configured to authenticate <b>users</b> through an external authentication service (e.g., MS Active Directory, NDS, LDAP, etc.)?		See Note	1
12-3	Can the <b>device</b> be configured to lock out a <b>user</b> after a certain number of unsuccessful logon attempts?		See Note	1
12-4	Can default passwords be changed at/prior to installation?		See Note	1
12-5	Are any shared <b>user</b> IDs used in this system?		Yes	2
12-6	Can the <b>device</b> be configured to enforce creation of <b>user</b> account passwords that meet established complexity rules?		See Note	1
12-7	Can the <b>device</b> be configured so that account passwords expire periodically?		See Note	1
PAUT notes:	1. The system utilizes the Windows OS, and can be configured to use relevant Windows tools for User Control, Auditing, Logging, etc. Additionally, the system can be joined to a Active Directory for additional administration capabilities. 2. The User Interface has a shared ID for service login			
<b>13</b>	<b>PHYSICAL LOCKS (PLOK)</b>			
	Physical locks can prevent unauthorized <b>users</b> with physical access to the <b>device</b> from compromising the integrity and confidentiality of <b>private data</b> stored on the <b>device</b> or on <b>removable media</b> .			
13-1	Are all <b>device</b> components maintaining <b>private data</b> (other than <b>removable media</b> ) physically secure (i.e., cannot remove without tools)?		Yes	—
PLOK notes:				

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<b>14</b>	<b>ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)</b>			
	Manufacturer's plans for security support of 3rd party components within <b>device</b> life cycle.			
14-1	In the notes section, list the provided or required (separately purchased and/or delivered) operating system(s) - including version number(s).		Yes	—
14-2	Is a list of other third party applications provided by the manufacturer available?  <a href="#">Windows 10 IOT 2019</a>		Yes	—
RDMP notes:				
<b>15</b>	<b>SYSTEM AND APPLICATION HARDENING (SAHD)</b>			
	The <b>device's</b> resistance to cyber attacks and <b>malware</b> .			
15-1	Does the <b>device</b> employ any hardening measures? Please indicate in the notes the level of conformance to any industry-recognized hardening standards.		No	—
15-2	Does the <b>device</b> employ any mechanism (e.g., release-specific hash key, checksums, etc.) to ensure the installed program/update is the manufacturer-authorized program or software update?		No	—
15-3	Does the <b>device</b> have external communication capability (e.g., network, modem, etc.)?		Yes	—
15-4	Does the file system allow the implementation of file-level access controls (e.g., New Technology File System (NTFS) for MS Windows platforms)?		Yes	—
15-5	Are all accounts which are not required for the <b>intended use</b> of the <b>device</b> disabled or deleted, for both <b>users</b> and applications?		N/A	—
15-6	Are all shared resources (e.g., file shares) which are not required for the <b>intended use</b> of the <b>device</b> , disabled?		N/A	—
15-7	Are all communication ports which are not required for the <b>intended use</b> of the <b>device</b> closed/disabled?		No	—
15-8	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the <b>intended use</b> of the <b>device</b> deleted/disabled?		No	—
15-9	Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) which are not required for the <b>intended use</b> of the <b>device</b> deleted/disabled?		No	—
15-10	Can the <b>device</b> boot from uncontrolled or <b>removable media</b> (i.e., a source other than an internal drive or memory component)?		No	—
15-11	Can software or hardware not authorized by the <b>device</b> manufacturer be installed on the device without the use of tools?		Yes	—
SAHD notes:				
<b>16</b>	<b>SECURITY GUIDANCE (SGUD)</b>			
	The availability of security guidance for <b>operator</b> and administrator of the system and manufacturer sales and service.			
16-1	Are security-related features documented for the <b>device user</b> ?		No	—
16-2	Are instructions available for <b>device</b> /media sanitization (i.e., instructions for how to achieve the permanent deletion of personal or other sensitive data)?		No	—
SGUD notes:				

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<b>17 HEALTH DATA STORAGE CONFIDENTIALITY (STCF)</b>				
The ability of the <b>device</b> to ensure unauthorized access does not compromise the integrity and confidentiality of <b>private data</b> stored on <b>device</b> or <b>removable media</b> .				
17-1	Can the <b>device</b> encrypt data at rest?		See Note	1
STCF notes:	1. Data encryption can be accomplished using Windows compatible third party software/methods, but is not set up by default.			
<b>18 TRANSMISSION CONFIDENTIALITY (TXCF)</b>				
The ability of the <b>device</b> to ensure the confidentiality of transmitted <b>private data</b> .				
18-1	Can <b>private data</b> be transmitted only via a point-to-point dedicated cable?		No	—
18-2	Is <b>private data</b> encrypted prior to transmission via a network or <b>removable media</b> ? (If yes, indicate in the notes which encryption standard is implemented.)		No	—
18-3	Is <b>private data</b> transmission restricted to a fixed list of network destinations?		See Note	1
TXCF notes:	Device is configured to only transmit to a Specific IP address. DICOM provides no native method to encrypt data but TLS (Transport Layer Security) can be used on a local network.			
<b>19 TRANSMISSION INTEGRITY (TXIG)</b>				
The ability of the <b>device</b> to ensure the integrity of transmitted <b>private data</b> .				
19-1	Does the <b>device</b> support any mechanism intended to ensure data is not modified during transmission? (If yes, describe in the notes section how this is achieved.)		No	—
TXIG notes:				
<b>20 OTHER SECURITY CONSIDERATIONS (OTHR)</b>				
Additional security considerations/notes regarding <b>medical device</b> security.				
20-1	Can the <b>device</b> be serviced remotely?		Yes	—
20-2	Can the <b>device</b> restrict remote access to/from specified devices or <b>users</b> or network locations (e.g., specific IP addresses)?		Yes	—
20-2.1	Can the <b>device</b> be configured to require the local <b>user</b> to accept or initiate remote access?		Yes	—
OTHR notes:				