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Document #\*: RD.REC.071



# MEDICAL DEVICE DISCLOSURE STATEMENT FOR MEDICAL DEVICE SECURITY Aixplorer MACH30 and MACH20 SW V3.X

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|  |  | Manufacturer Disclo   | sure Statement for M           | edical Device S          | Security – MI                   | DS <sup>2</sup>   |
|--|--|---|--------------------------------|--------------------------|---------------------------------|---|
|  |  |   | DEVICE DESCRI                  | PTION                    |                                 |   |
| Device Category  |  | Manufacturer  | Document ID                    | Document                 | t Release Date                  |   |
| Ultrasound imag  | ing modality   | SuperSonic Imagine  | RD.DD.533                      | 20201109                 | )                               |   |
| Device Model   |  | Software Revision   |                                | Software I               | Release Date                    |   |
| Aixplorer Mach   | 0  | V3.X  |                                | 20201115                 | i                               |   |
| Aixplorer Mach   |  |   |                                |                          |                                 |   |
| Manufacturer or  | SuperSonic I   | nagine  | Manufacturer Contact           | Information              |                                 |   |
| Representative   | _  |   |                                |                          |                                 |   |
| Contact Informat                                       | ion Representativ  | ve Name/Position  |                                |                          |                                 |   |
| The device is an<br>- a PACS in or<br>- a Worklist ser | ultrasound scann<br>ler to archive the<br>ver in order to re | k-connected environment:<br>er. It is intended to be connecte<br>images acquired by the device<br>ceive patient and exam informa<br>device to query exam an retriev | ; and<br>ton.                  |                          |                                 |   |
|  |  | IVI   |                                | IVALE DATA               |                                 |   |
| Refer to S   | ection 2.3.2 of thi  | s standard for the proper interp  | etation of information reque   | sted in this form.       | Yes, No,<br>N/A, or<br>See Note | Nate #  |
| Informat   | on [ePHI])?  | ansmit, or maintain <b>private data</b>   |                                | ected Health             | Yes                             | If a hacker gains access to the patient's database hosted by the Medical Equipment, there is typically no Social Security numbers, addresses, credit cards or other potentially lucrative personal information stored in it.<br>A more likely scenario would be that Medical Equipment could be used to provide a "backdoor" into the PACS, or hospital information system to shut that down and use it as a potential ransomware threat.<br>Ultrasound devices are less likely to be targeted as they are not 100% up and running. This Medical Equipment has no remote port opened except the DICOM one which do not provide remote access on the Ultrasound device. Thanks to design decision, an attack on this port would only limit the capability to receive image and not affect the capability to produce and exchange images with the PACS. |
|  |  | nents that can be maintained by   |                                |                          |                                 |   |
|  |  | name, address, location, uniqu<br>., medical record #, account #, 1   |                                | <b>ce</b> identification | Yes                             | —   |
|  | imber)?  | ., mouloai recoru #, accoull #, l   | Lost of treatment uate, UEVI   |                          | Yes                             | _   |
|  | agnostic/therape<br>aracteristics)?                          | utic (e.g., photo/radiograph, test  | results, or physiologic data   | with identifying         | Yes                             |   |
| B.4 O  | pen, unstructured  | text entered by device user/or  | perator?                       |                          | Yes                             | Operator can save text in annotation<br>displayed on images   |
|  | ometric data?  |   |                                |                          | No                              | _   |
|  | ersonal financial i  |   |                                |                          | No                              | —   |
| C.1 M  | -  | ta temporarily in volatile memor  | ry (i.e., until cleared by pow | er-off or reset)?        | Yes                             | _   |
|  | -  | persistently on local media?<br>te data with other systems?   |                                |                          | Yes<br>Yes                      | Export Exam to PACS, and removable  |
|  | aintain mainte   |   | tiono?                         |                          |                                 | media   |
|  | -  | ata during power service interrup<br>ransmitting, importing/exporting   |                                | device:                  | Yes                             | —   |

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| D.1                        | Display private data (e.g., video display, etc.)?  | Yes | - 1             |
|----------------------------|--|-----|-----------------|
| D.2                        | Generate hardcopy reports or images containing private data?   | 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.)?                                | Yes | _               |
| D.7                        | Import private data via scanning?  | Yes | Barcode scanner |
| D.8                        | Other?   | No  | -               |
| Management<br>Private Data |  |     |                 |

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| Device         | e Category  | Manufacturer   | Document ID                                  | Document Re                 | lease Date                      |  |
|----------------|---|--|--|-----------------------------|---------------------------------|--|
| Ultras         | ound imaging modality   | SuperSonic Imagine   | RD.DD.533                                    | 20201109                    |                                 |  |
| Device         | e Model   | Software Revision  |  | Software Rele               | ase Date                        |  |
|                | orer Mach30   | V3.X   |  | 20201115                    | abo Dato                        |  |
| -              | orer Mach20   | 10.11  |  | 20201115                    |                                 |  |
| <u> </u>       |   |  |  |                             |                                 |  |
|                |   |  | SECURITY CAPAB                               | ILITIES                     |                                 |  |
|                | Refer to Section 2.3.2 of this s                                      | standard for the proper interp                                   | pretation of information reques              | ted in this form.           | Yes, No,<br>N/A, or<br>See Note | Note #   |
| 1              | AUTOMATIC LOGOFF (ALO   | DF)  |  |                             |                                 |  |
|                | The device's ability to preven  | t access and misuse by una                                       | uthorized users if device is le              | ft idle for a period of tin | ne.                             |  |
| 1-1            | Can the <b>device</b> be configured inactivity (e.g., auto-logoff, se |  |  | etermined length of         | Yes                             | _  |
|                |   | ity time before auto-logoff/sc<br>r configurable range] in notes | creen lock <b>user</b> or administrat<br>s.) | or configurable?            |                                 |  |
|                |   |  |  |                             | Yes                             | Configurable to the following values 10 min (default), 20 min, 30min or never  |
|                | 1-1.2 Can auto-logoff/screen the <b>user</b> ?                        | n lock be manually invoked (                                     | e.g., via a shortcut key or pro              | ximity sensor, etc.) by     | Yes                             | _  |
| ALOF<br>notes: |   |  |  |                             |                                 |  |
|                |   |  |  |                             |                                 |  |
| 2              | AUDIT CONTROLS (AUDT)   | i it the decides   |  |                             |                                 |  |
|                | The ability to reliably audit act                                     |  |  |                             |                                 |  |
| 2-1            | Can the <b>medical device</b> crea                                    | ate an <b>audit trail</b> ?                                      |  |                             | Yes                             | The audit logs are stored on the device.<br>Their are not exported to an audit<br>repository   |
| 2-2            | Indicate which of the following                                       | events are recorded in the                                       | audit log:                                   |                             |                                 |  |
|                | 2-2.1 Login/logout  |  |  |                             | Yes                             | _  |
|                | 2-2.2 Display/presentation of   | of data  |  |                             | Yes                             |  |
|                | 2-2.3 Creation/modification/  | deletion of data   |  |                             | Yes                             |  |
|                | 2-2.4 Import/export of data f   | from <b>removable media</b>                                      |  |                             | Yes                             |  |
|                | 2-2.5 Receipt/transmission  | of data from/to external (e.g.                                   | , network) connection                        |                             | Yes                             | _  |
|                | 2-2.5.1 Remote service  |  |  |                             | No                              |  |
|                | 2-2.6 Other events? (descril  | -  |  |                             | NO                              | _  |
|                |   |  |  |                             | Yes                             | The following event are logged:<br>- Instance deleted (when exam are<br>deleted from device)<br>- Study used (when an exam is<br>reviewed)<br>- Security alert (when setup are<br>changed)<br>-Actor start/stop<br>-Audit Log used |
| 2-3            | Indicate what information is us                                       | sed to identify individual even                                  | nts recorded in the audit log:               |                             |                                 |  |
| Í              | 2-3.1 User ID   |  |  |                             | Yes                             |  |
|                | 2-3.2 Date/time   |  |  |                             | Yes                             |  |
|                |   |  |  |                             |                                 |  |
| AUDT<br>notes: |   |  |  |                             |                                 |  |
| 3              | AUTHORIZATION (AUTH)  |  |  |                             |                                 |  |
|                | The ability of the device to de                                       | termine the authorization of                                     | users.                                       |                             |                                 |  |
| 3-1            | Can the <b>device</b> prevent acces                                   | ss to unauthorized <b>users</b> thr                              | ough <b>user</b> login requirements          | or other mechanism?         |                                 |  |
|                |   |  |  |                             | Yes                             |  |
|                |   |  |  |                             |                                 |  |
|                |   |  |  |                             |                                 |  |

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|----------------|--|-----|--|
| 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.)? | Yes | 3 roles are defined: Emergency access<br>can only acquire images, Sonographer<br>create, review, delete, export exams and<br>admin can configure the device in<br>addition to what a sonographer can do. |
| 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)?       | yes | User interface does not allow user to<br>interact with operating system. There is<br>no access for a user to the underlying<br>OS  |
| AUTH<br>notes: |  |     |  |

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|---------------------|---|---|------------------------------------|-----------------------------------|---------------------------------|---|
| Device              | Category  | Manufacturer  | Document ID                        | Document Re                       | elease Date                     |   |
| Ultrase             | ound imaging modality   | SuperSonic Imagine  | RD.DD.533                          | 20201109                          |                                 |   |
|                     | Model   | Software Revision   |                                    | Software Rel                      | ease Date                       |   |
| Аіхріо              | rer Mach30  | V3.X  |                                    | 20201115                          |                                 |   |
|                     | Refer to Section 2.3.2 of thi                                       | s standard for the proper interp                                  | pretation of information reque     | ested in this form.               | Yes, No,<br>N/A, or<br>See Note | Note #  |
| 4                   |   | CURITY FEATURES (CNFS)  |                                    |                                   |                                 |   |
| 4-1                 |   | configure device security capa<br>rator reconfigure product secu  |                                    | ds.                               | Yes                             | Only admin users can change security<br>features  |
| CNFS<br>notes:      |   |   |                                    |                                   |                                 |   |
| 5                   |   | DUCT UPGRADES (CSUP)<br>e staff, remote service staff, or         | authorized customer staff to       | o install/upgrade <b>device</b> ' | s security pat                  | ches.   |
|                     |   |   |                                    |                                   |                                 |   |
| 5-1                 | Can relevant OS and device  | ce security patches be applied                                    | to the <b>device</b> as they becom | ie available?                     | Yes                             | Quick installe: Security patch are<br>applyied by SSI's Field service<br>engineers.   |
|                     | 5-1.1 Can security patche   | es or other software be installed                                 | d remotely?                        |                                   | Yes                             | For Online service contact SSI  |
| CSUP<br>notes:      |   |   |                                    |                                   |                                 |   |
| 6                   | HEALTH DATA DE-IDEN   |   |                                    |                                   |                                 |   |
| 6-1                 |   | directly remove information than integral capability to de-identi |                                    | erson.                            | Yes                             | For Logs: Clear logs in system config<br>For non DICOM export on<br>USB/CD/DVD:<br>-Jpeg export of US images are<br>anonymised (as soon as operator does<br>not entre PHI in annotation)<br>- screenshot of patient folder are not<br>anonymised (patient name, DOB,<br>Patient ID, accession# may be visible)<br>- report are not anonymised (patient<br>name, DOB, Patient ID, accession# may<br>be visible)<br>For printed images: no anonymisation<br>(patient name, DOB, Patient ID,<br>accession# are visible)<br>For DICOM :<br>Basic Profile, for US images being<br>exported on DICOM Store and DICOM<br>Media<br>no anonymisation for<br>- DICOM Print (patient name, DOB,<br>Patient ID, accession# will be visible)<br>- screenshot of patient folder are not<br>anonymised (patient name, DOB,<br>Patient ID, accession# may be visible)<br>- report are not anonymised (patient<br>name, DOB, Patient ID, accession# may<br>be visible) |
| DIDT<br>notes:<br>7 |   |   |                                    |                                   |                                 |   |
| 7                   |   | ASTER RECOVERY (DTBK)<br>damage or destruction of device          | ce data, hardware, or softwa       | ire.                              |                                 |   |
| 7-1                 | Does the <b>device</b> have an in <b>media</b> such as tape, disk)? | ntegral data backup capability (<br>?                             | (i.e., backup to remote stora      | ge or <b>removable</b>            | Yes                             | Export to DICOM<br>Backup Restore   |
| DTBK<br>notes:      |   |   |                                    |                                   |                                 |   |

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| 8     | EMERGENCY ACCESS (EMRG)   |                      |                                    |
|-------|---|----------------------|------------------------------------|
|       | The ability of <b>device users</b> to access <b>private data</b> in case of an emergency situation that requires imme | ediate access to sto | red <b>private data</b> .          |
| 8-1   | Does the <b>device</b> incorporate an <b>emergency access</b> ("break-glass") feature?                                | Yes                  |                                    |
| EMR   | G   |                      |                                    |
| notes |   |                      |                                    |
|       | n   |                      |                                    |
| 9     | HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)   |                      |                                    |
|       | How the device ensures that data processed by the device has not been altered or destroyed in an una                  | uthorized manner ar  | nd is from the originator.         |
|       |   |                      |                                    |
| 9-1   | Does the <b>device</b> ensure the integrity of stored data with implicit or explicit error detection/correction       | Yes                  | The mechanisms are provided by the |
|       | technology?   |                      | OS                                 |
| IGAL  |   |                      |                                    |
| notes |   |                      |                                    |
|       | n   |                      |                                    |
|       |   |                      |                                    |

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| - <b>J</b> -   | -   |  |                                       |                           |                                 |  |  |
|----------------|---|--|---------------------------------------|---------------------------|---------------------------------|--|--|
|                | • Category<br>ound imaging modality                           | Manufacturer<br>SuperSonic Imagine   | Document ID<br>RD.DD.533              | Document Re<br>20201109   | elease Date                     |  |  |
|                | e Model   | 1 5  |                                       |                           | Software Release Date           |  |  |
|                | orer Mach30   | V3.X   |                                       | 20201115                  | ease Dale                       |  |  |
| - mpro         |   |  |                                       | 20201110                  |                                 |  |  |
|                | Refer to Section 2.3.2 of thi                                 | s standard for the proper inter  | pretation of information reques       | sted in this form.        | Yes, No,<br>N/A, or<br>See Note | Note #   |  |
| 10             | MALWARE DETECTION/  | PROTECTION (MLDP)  |                                       |                           |                                 |  |  |
|                |   | effectively prevent, detect and  | remove malicious software (           | malware).                 |                                 |  |  |
| 10-1           | Does the <b>device</b> support the                            | he use of anti-malware softwa  | are (or other <b>anti-malware</b> me  | chanism)?                 |                                 |  |  |
|                |   |  |                                       | ,                         |                                 | Malicious code protection mechanisms   |  |
|                |   |  |                                       |                           | Yes                             | by:<br>- Use of secure Open-source operating<br>system<br>- Pervasive configuration management<br>and comprehensive software integrity<br>controls are used to prevent execution of<br>unauthorized code<br>- secure coding practices, |  |
|                |   |  |                                       |                           |                                 | configuration management and control,<br>trusted procurement processes, and<br>monitoring practices to help ensure that<br>software does not perform functions<br>other than the functions intended                                    |  |
|                | 10-1.1 Can the user indep                                     | endently re-configure anti-ma  | Iware settings?                       |                           | No                              |  |  |
|                |   | malware detection occur in th  |                                       |                           | No                              |  |  |
|                | 10-1.3 Can only manufact                                      | urer-authorized persons repair   | systems when malware has l            | peen detected?            | Yes                             |  |  |
| 10-2           | Can the device owner insta                                    | all or update <b>anti-virus softw</b> a  | ro?                                   |                           | No                              |  |  |
|                |   | rator (technically/physically) up  |                                       | ufacturer-installed anti- |                                 |  |  |
|                | virus software?   | · · · · · · · · · · · · · · · · · · ·  |                                       |                           | No                              |  |  |
| MLDP<br>notes: |   |  |                                       |                           |                                 |  |  |
| 11             |   | 1 /A1 A1 I <del>T</del> \  |                                       |                           |                                 |  |  |
| L '' .         | NODE AUTHENTICATION   | authenticate communication p   | arthers/nodes                         |                           |                                 |  |  |
| 11-1           | Does the device provide/s                                     | upport any means of node authorized to each other and are authorized to each other authorized t | nentication that assures both t       |                           | No                              | _  |  |
| NAUT<br>notes: |   |  |                                       |                           |                                 |  |  |
| 12             | PERSON AUTHENTICAT  | ION (PAUT)   |                                       |                           |                                 |  |  |
|                | Ability of the device to aut                                  | nenticate users  |                                       |                           |                                 |  |  |
| 12-1           | Does the <b>device</b> support u                              | ser/operator-specific usernar  | ne(s) and password(s) for at le       | east one user?            | Yes                             | _  |  |
| <u> </u>       | 12-1.1 Does the device su                                     | pport unique <b>user/operator</b> -s <b>p</b>  | becific IDs and passwords for         | multiple users?           | No                              | 4 accounts exists: emergency access,<br>sonographer, admin and service   |  |
| 12-2           | Can the <b>device</b> be configu<br>Active Directory, NDS, LD | red to authenticate <b>users</b> throu<br>AP, etc.)?   | ugh an external authentication        | service (e.g., MS         | No                              | _  |  |
| 12-3           | Can the <b>device</b> be configu                              | red to lock out a <b>user</b> after a c  | ertain number of unsuccessfu          | I logon attempts?         | No                              | _  |  |
|                |   | changed at/prior to installation   | ?                                     |                           | Yes                             |  |  |
|                | Are any shared <b>user</b> IDs u                              | •  |                                       | 4 4 - b li - b d          | Yes                             | <u> </u>   |  |
| 12-6           | complexity rules?   | red to enforce creation of user  | account passwords that mee            | testablished              | No                              |  |  |
| 12-7           | Can the <b>device</b> be configu                              | red so that account passwords  | expire periodically?                  |                           | No                              | _  |  |
| PAUT<br>notes: |   |  |                                       |                           |                                 |  |  |
| 13             | PHYSICAL LOCKS (PLO   | ()   |                                       |                           |                                 |  |  |
|                | •   | unauthorized users with phys   | ical access to the <b>device</b> from | a compromising the inte   | grity and cor                   | fidentiality of private data stored on the   |  |
| 13-1           | Are all <b>device</b> components cannot remove without too    | s maintaining <b>private data</b> (oth<br>ls)?   | er than <b>removable media</b> ) ph   | nysically secure (i.e.,   | Yes                             | _  |  |
|                |   |  |                                       |                           |                                 |  |  |

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Page 21 Device Category Manufacturer Document ID Document Release Date Ultrasound imaging modality SuperSonic Imagine **RD.DD.533** 20201109 Device Model Software Revision Software Release Date Aixplorer Mach30 V3.X 20201115 Yes, No, # Refer to Section 2.3.2 of this standard for the proper interpretation of information requested in this form. N/A, or Note See Note ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP) Manufacturer's plans for security support of 3rd party components within device life cycle. 14-1 In the notes section, list the provided or required (separately purchased and/or delivered) operating system(s) Yes - including version number(s). 14-2 Is a list of other third party applications provided by the manufacturer available? Fusion (purcheasble option) Yes Debian GNU/Linux RDMP notes 15 SYSTEM AND APPLICATION HARDENING (SAHD) The device's resistance to cyber attacks and malware. 15-1 Does the device employ any hardening measures? Please indicate in the notes the level of conformance to The folowing compensation are any industry-recognized hardening standards. implemented to harden system - Single-function system: US - Address space layout randomization (ASLR) - Protected database link (only local Yes access enabled, password protection)Unused services disabled - Remote loging service disabled - Use of Mandatory Access Control (MAC) mecanism - Least privilege principle - Least functionality principle 15-2 Does the device employ any mechanism (e.g., release-specific hash key, checksums, etc.) to ensure the All the software included in the medical installed program/update is the manufacturer-authorized program or software update? device are provided by a trusted source provider (GNU/Linux Debian). The Debian packages that are included on Yes the medical devices are digitally signed by SuperSonic Imagine. Debian package is a tamper-evident packaging format. 15-3 Does the device have external communication capability (e.g., network, modem, etc.)? External communication capability: Yes Network: used for DICOM communication 15-4 Does the file system allow the implementation of file-level access controls (e.g., New Technology File System Yes (NTFS) for MS Windows platforms)? ReiserFS 15-5 Are all accounts which are not required for the intended use of the device disabled or deleted, for both Yes users and applications? 15-6 Are all shared resources (e.g., file shares) which are not required for the intended use of the device, The system does not used any shared Yes disabled? resources. 15-7 Are all communication ports which are not required for the intended use of the device closed/disabled? The DICOM port is the only port Yes opened. Its use is documented in the DICOM Conformance Statement 15-8 Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not Those services are not installed on the Yes required for the intended use of the device deleted/disabled? Medical Devices 15-9 Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) Only essentials packages are installed which are not required for the intended use of the device deleted/disabled? Yes on the medical device. No web browser are installed. 15-10 Can the device boot from uncontrolled or removable media (i.e., a source other than an internal drive or Booting from external device is not No memory component)? authorized 15-11 Can software or hardware not authorized by the device manufacturer be installed on the device without the No use of tools?

| 16   | SECURITY GUIDANCE (SGUD)   |         |  |
|------|--|---------|--|
| -    | The availability of security guidance for <b>operator</b> and administrator of the system and manufacturer sales and s | ervice. |  |
| 16-1 | Are security-related features documented for the <b>device user</b> ?  | Yes     | Security information are included in th<br>User Guide          |
| 16-2 | Are instructions available for <b>device</b> /media sanitization (i.e., instructions for how to achieve                |         |  |
| 1    | the permanent deletion of personal or other sensitive data)?   | No      | Permanent deletion of data require storage device destruction. |

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| Device Category<br>Ultrasound imaging modality               | Manufacturer<br>SuperSonic Imagine   | Document ID<br>RD.DD.533              | Document R<br>20201109  | elease Date  |   |
|--|--|---------------------------------------|-------------------------|--|---|
| Device Model   | Software Revision  | KD.DD.355                             | Software Re             | loaco Dato   |   |
| Aixplorer Mach30   | V3.X   |                                       | 20201115                | lease Dale   |   |
| 17 HEALTH DATA STORAG  | is standard for the proper inter<br>ECONFIDENTIALITY (STCF)  |                                       |                         | Yes, No,<br>N/A, or<br>See Note<br>of <b>private dat</b> | ≇<br>⊕<br>S<br>Z<br>a stored on <b>device</b> or <b>removable med</b>   |
|  |  |                                       |                         |  |   |
| 17-1 Can the <b>device</b> encrypt da                        | ata at rest?   |                                       |                         | Yes  | e-PHI contained in database, DICOl<br>objects, native archives and logs ar<br>stored on an encrypted partition usin<br>TPM1.2 |
| STCF<br>notes:   |  |                                       |                         |  |   |
| 18 TRANSMISSION CONFIL                                       | DENTIALITY (TXCF)  |                                       |                         |  |   |
| The ability of the device to                                 | o ensure the confidentiality of tra  | ansmitted private data.               |                         |  |   |
| 18-1 Can private data be trans                               |  |                                       |                         | No   | —   |
| 18-2 Is private data encrypted<br>notes which encryption sta |  | ork or removable media? (If           | yes, indicate in the    | No   |   |
| 18-3 Is private data transmissi                              |  | twork destinations?                   |                         | Yes  | _   |
| XCF<br>lotes:  |  |                                       |                         |  |   |
| 19 TRANSMISSION INTEGR                                       |  |                                       |                         |  |   |
| 19-1 Does the <b>device</b> support a                        | o ensure the integrity of transmi<br>any mechanism intended to ens<br>section how this is achieved.) | -                                     | transmission? (If       | Yes  | DICOM TLS   |
| TXIG<br>notes:   |  |                                       |                         |  |   |
| 20 OTHER SECURITY CON  | SIDERATIONS (OTHR)   |                                       |                         |  |   |
| Additional security consid                                   | erations/notes regarding medic   | al device security.                   |                         |  |   |
| 20-1 Can the <b>device</b> be service                        |  |                                       |                         | Yes  | —   |
| 20-2 Can the <b>device</b> restrict rep<br>IP addresses)?    | mote access to/from specified (  | devices or <b>users</b> or network lo | cations (e.g., specific | Yes  |   |
| 20-2.1 Can the <b>device</b> be                              | configured to require the local  | user to accept or initiate remo       | te access?              | Yes  | Local user acceptance is mandatory initiate a remote access   |
|  |  |                                       |                         |  |   |
|  |  |                                       |                         |  |   |
| DTHR<br>notes:   |  |                                       |                         |  |   |
|  |  |                                       |                         |  |   |
|  |  |                                       |                         |  |   |
|  |  |                                       |                         |  |   |
|  |  |                                       |                         |  |   |

the Healthcare Information and Management Systems Society.

## Manufacturer Disclosure Statement for Medical Device Security - MDS<sup>2</sup> Applorer MACH30 V3.X

|  | Aixplorer MACH30 V3.X  |   |   |                       |                              |  |
|--|--|---|---|-----------------------|------------------------------|--|
| SuperSonic imagine   | Aixplorer MACH20 V3.X  | RD.DD.533   | 15-Nov-2020   |                       |                              |  |
|  |  |   |   |                       |                              |  |
| Our stille in ID   | Question   |   | Con moto  | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
| Question ID  | Question   |   | See note  | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | 150 27002:2013                                 |
| DOC-1  | Manufacturer Name  | SuperSonic imagine  | -   |                       |                              |  |
| DOC-2  | Device Description   | Ultrasound imaging modality   | _   |                       |                              |  |
|  |  | Aixplorer MACH30 V3.X   |   |                       |                              |  |
| DOC-3  | Device Model   | Aixplorer MACH20 V3.X   | _   |                       |                              |  |
| DOC-4  | Document ID  | RD.DD.533   | _   |                       |                              |  |
|  |  |   |   |                       |                              |  |
|  |  | Cybersecurity questions shall be asked to cybersecurity@supersonicimagine.con |   |                       |                              |  |
| DOC-5  | Manufacturer Contact Information   | For other inquiries please contact your local representative.                 | _   |                       |                              |  |
|  |  | The device is an ultrasound scanner. It is intended to be connected to:       |   |                       |                              |  |
|  |  | - a PACS in order to archive the images acquired by the device ; and          |   |                       |                              |  |
|  |  | - a Worklist server in order to receive patient and exam information.         |   |                       |                              |  |
|  | Intended use of device in network-connected  | A purchasable option also allow device to query exam an retrieve images       |   |                       |                              |  |
| DOC-6  | environment:   | archived on the PACS.   |   |                       |                              |  |
| DOC-8  | Document Belease Date  | 15/11/20  | —   |                       |                              |  |
| DOC-7  |  | 15/11/20  | 20  |                       |                              |  |
|  | Coordinated Vulnerability Disclosure: Does the   |   | And the second  |                       |                              |  |
|  | manufacturer have a vulnerability disclosure program   |   | Vulnerabilities information available at:   |                       |                              |  |
| DOC-8  | for this device?   | Yes   | https://www.supersonicimagine.Com/security  |                       |                              |  |
|  | ISAO: Is the manufacturer part of an Information   |   |   |                       |                              |  |
| DOC-9  | Sharing and Analysis Organization?   | Yes   | _   |                       |                              |  |
|  |  |   |   |                       |                              |  |
|  | Diagram: Is a network or data flow diagram available   |   |   |                       |                              |  |
|  | that indicates connections to other system   |   |   |                       |                              |  |
| DOC-10   | components or expected external resources?   | Yes   | see Network and Data Flow Diagram   |                       |                              |  |
|  | SaMD: Is the device Software as a Medical Device (i.e.   |   | -   |                       |                              |  |
| DOC-11   | software-only, no hardware)?   | No  |   |                       |                              |  |
| DOC-11.1   | Does the SaMD contain an operating system?   | N/A   | -   |                       |                              |  |
| 500 11.1   | Does the SaMD rely on an owner/operator provided   |   | -   |                       |                              |  |
|  |  |   |   |                       |                              |  |
| DOC-11.2   | operating system?  | N/A   | _   |                       |                              |  |
|  | Is the SaMD hosted by the manufacturer?  |   |   |                       |                              |  |
| DOC-11.3   |  | N/A   |   |                       |                              |  |
| DOC-11.4   | Is the SaMD hosted by the customer?  | N/A   |   |                       |                              |  |
|  |  |   | _   |                       |                              |  |
|  |  | Yes, No,  |   |                       |                              |  |
|  |  | N/A, or   |   |                       |                              |  |
|  |  | See Note  | Note #  |                       |                              |  |
|  |  |   |   |                       |                              |  |
|  |  |   | Hote #  |                       |                              |  |
|  | MANAGEMENT OF PERSONALLY IDENTIFIABLE  |   |   |                       |                              |  |
|  | MANAGEMENT OF PERSONALLY IDENTIFIABLE<br>INFORMATION   |   |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
|  |  |   | This device download, display, transmit and store   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
|  |  |   | This device download, display, transmit and store the following PII:  | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
|  | INFORMATION  |   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
|  |  |   | This device download, display, transmit and store the following PII:  | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
|  | INFORMATION  |   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
| MPII-1   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic   | Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4        | ISO 27002:2013                                 |
| MPII-1   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHIJ)?  |   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 |                              |  |
|  | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic   | Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 |                              |  |
| MPII-1<br>MPII-2   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII))?<br>Does the device maintain personally identifiable<br>information?   |   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2                         | A.15.1.4                                       |
|  | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (eHt))?<br>Does the device maintain personally identifiable<br>information?<br>Does the device maintain personally identifiable   | Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2                         | A.15.1.4                                       |
| MPII-2   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII)?<br>Does the device maintain personally identifiable<br>information?<br>Does the device maintain personally identifiable<br>information temporarily in volatile memory (i.e., until   | Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
|  | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII)?<br>Does the device maintain personally identifiable<br>information?<br>Does the device maintain personally identifiable<br>information temporarily in volatile memory (i.e., until<br>cleared by power-off or reselt?  | Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2                         | A.15.1.4                                       |
| MPII-2<br>MPII-2.1   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII)?<br>Does the device maintain personally identifiable<br>information?<br>Does the device maintain personally identifiable<br>information temporarily in volatile memory (i.e., until<br>cleared by power-off or resel)?<br>Does the device store personally identifiable   | Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII)?<br>Does the device maintain personally identifiable<br>information?<br>Does the device maintain personally identifiable<br>information temporarily in volatile memory (i.e., until<br>cleared by power-off or reselt?  | Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII)?<br>Does the device maintain personally identifiable<br>information temporarily in volatile memory (i.e., until<br>cleared by power-off or reset?)?<br>Does the device store personally identifiable<br>information persistently on internal media?   | Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the  | Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased?  | Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased?  | Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient Ame<br>• Date of birth   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory unil explicitly reased? Does the device store personally identifiable  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION<br>Can this device display, transmit, store, or modify<br>personally identifiable information (e.g. electronic<br>Protected Health Information (ePHII)?<br>Does the device maintain personally identifiable<br>information?<br>Does the device maintain personally identifiable<br>information temporarily in volatile memory (i.e., until<br>cleared by power-off or reset)?<br>Does the device store personally identifiable<br>information persistently on internal media?<br>Is personally identifiable<br>information ensistently on internal media?<br>Is personally identifiable<br>information in a database?  | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Date of birth<br>• Date of bir | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device raintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically  | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient 10<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4                                     | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (e.g.) electronic Protected Health Information (e.g.) (e.g.) Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until deared by power-off or reset?) Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly rease? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information attention   | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A.15.1.4<br>A.15.1.4<br>A.15.1.4               |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3   | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device anintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information after i is stored to a long term solution?   | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient 10<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2                 | A.15.1.4<br>A.15.1.4                           |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4                                     | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information atter i is stored to a long term solution?   | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A.15.1.4<br>A.15.1.4<br>A.15.1.4               |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4                                     | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resei)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information a latabase? Does the device allow configuration to automatically delete local personally identifiable information allow information is a latabase? Does the device allow configuration to automatically delete local personally identifiable information allow information? Does the device allow configuration to automatically delete local personally identifiable information in the resystemes of the device information (e.g., a wearable information to the systeme (e.g., a wearable   | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Date of birth<br>• Date of birt  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A.15.1.4<br>A.15.1.4<br>A.15.1.4               |
| MPI-2<br>MPI-2.1<br>MPI-2.2<br>MPI-2.3<br>MPI-2.4  | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically dested local personal temport/personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information means the systems (e.g., a wearable monitoring device might export personally identifiable information means the monitoring device might export personally identifiable information means the systems (e.g., a wearable monitoring device might export personally identifiable information means and the systems (e.g., a wearable monitoring device might export personally identifiable information means the systems (e.g., a wearable monitoring device might export personally identifiable information means and the systems (e.g., a wearable monitoring device might export personally identifiable information means the systems (e.g., a wearabl | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>• Date of birth | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A15.1.4<br>A15.1.4<br>A15.1.4                  |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4                                     | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (e.g. electronic Information temporarily in volatile memory (i.e., until cleared by power-off or reset)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information resistently on internal media? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information after i is stored to a long term solution? Does the device anor solution? Does the device import/export personally identifiable information with other systems (e.g., a warable monitoring device might export personally identifiable information with other systems (e.g., a warable monitoring device might export personally identifiable information server)?   | Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Date of birth<br>• Date of birt  | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A.15.1.4<br>A.15.1.4<br>A.15.1.4               |
| MPI-2<br>MPI-2.1<br>MPI-2.2<br>MPI-2.3<br>MPI-2.4  | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly eraced? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information reserved in store to a long term solution? Does the device might export personally identifiable information with other systems (e.g., a warable information to a server?) Does the device maintain personally identifiable information is a server? Does the device maintain personally identifiable information is personally identifiable information to a server?   | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>• Date of birth | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A15.1.4<br>A15.1.4<br>A15.1.4                  |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4<br>MPII-2.5                         | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (e.g. electronic Information temporarily in volatile memory (i.e., until deared by power-off or reset)? Does the device store personally identifiable information persistently on Internal media? Is personally identifiable information reserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information with other systems (e.g., a wearable information to a server)? Does the device mignt/export personally identifiable information to a server)? Does the device mignt exponsel y identifiable information to a server)? Does the device mignt exponsel y identifiable information to a server)? Does the device mignt exponsel y identifiable information to a server)? Does the device mignt exponsel y identifiable information with other systems (e.g., a wearable monitoring device mignt exponsel y identifiable information with other systems (e.g., a wearable monitoring device mignt exponsel y identifiable information with other systems (e.g., a wearable monitoring device mignt exponsel y identifiable information with other systems (e.g., a wearable monitoring device mignt exponsel y identifiable information with other systems (e.g., a wearable monitoring device mignt exponsel y identifiable information with other systems (e.g., a wearable inf | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2<br>AR-2 | A15.14<br>A15.14<br>A15.14<br>A15.14<br>A15.14 |
| MPI-2<br>MPI-2.1<br>MPI-2.2<br>MPI-2.3<br>MPI-2.4  | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)? Does the device to personally identifiable information persistently on internal media? Is personally identifiable information personally identifiable information a database? Does the device allow configuration to automatically delete local personally identifiable information in a database? Does the device import/export personally identifiable information to as every? Does the device maintain personally identifiable information a server]? Does the device maintain personally identifiable information as every? Does the device maintain personally identifiable information when powered off, or during power service interruptions?  | Yes<br>Yes<br>Yes<br>Yes<br>Yes   | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>• Date of birth | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2         | A15.1.4<br>A15.1.4<br>A15.1.4                  |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4<br>MPII-2.5                         | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel?) Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information with other systems (e.g., a warable monitoring device maintain personally identifiable information to a server?) Does the device maintain personally identifiable information to a server? Does the device maintain personally identifiable information when powered off, or during power service interruptions?  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2<br>AR-2 | A15.14<br>A15.14<br>A15.14<br>A15.14<br>A15.14 |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4<br>MPII-2.5<br>MPII-2.6<br>MPII-2.7 | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g., electronic Protected Health Information (e.g., and the service Information Constitution) Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)? Does the device store personally identifiable information persistently on internal media? Is personally identifiable information personally identifiable information volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information after i is stored to a long term solution? Does the device maintain personally identifiable information with other systems (e.g., a werable monitoring device maintain personally identifiable information with other systems (e.g., a werable monitoring device maintain personally identifiable information with other systems (e.g., a verable monitoring device maintain personally identifiable information when powered off, or during power service interruptions? Does the device allow the internal media to be removed by a service technicitian (e.g., or separate   | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                 | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2<br>AR-2 | A15.14<br>A15.14<br>A15.14<br>A15.14<br>A15.14 |
| MPII-2<br>MPII-2.1<br>MPII-2.2<br>MPII-2.3<br>MPII-2.4<br>MPII-2.5                         | INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHII)? Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or resel?) Does the device store personally identifiable information persistently on internal media? Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased? Does the device store personally identifiable information in a database? Does the device allow configuration to automatically delete local personally identifiable information with other systems (e.g., a warable monitoring device maintain personally identifiable information to a server?) Does the device maintain personally identifiable information to a server? Does the device maintain personally identifiable information when powered off, or during power service interruptions?  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  | This device download, display, transmit and store<br>the following PII:<br>• Patient Name<br>• Patient ID<br>• Patient Age<br>• Date of birth<br>   | IEC TR 80001-2-2:2012 | AR-2<br>AR-2<br>AR-2<br>AR-2 | A15.14<br>A15.14<br>A15.14<br>A15.14<br>A15.14 |

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|---|--|------------|---|--|-----------------------|--|
| informa<br>from th                              | the device allow personally identifiable<br>nation records be stored in a separate location<br>the device's operating system (i.e. secondary   |            |   |  |                       |  |
| MPII-2.9 storage<br>Does th                     | the device have mechanisms used for the  | Yes        | The PHI are stored on a dedicated crypted partition<br>separated from the device's Operating System.<br>e-PHI can be transmitted over DICOM Storage                           |  | AR-2                  | A.15.1.4   |
| MPII-3 identifi                                 | nitting, importing/exporting of personally<br>fiable information?<br>the device display personally identifiable  | Yes        | service, exportation on removable device and<br>backup restore  |  | AR-2                  | A.15.1.4   |
|   |  | Yes        | e-PHI are displayed on main screen  |  | AR-2                  | A.15.1.4   |
| MPII-3.2 contain<br>Does th                     | the device generate hardcopy reports or images<br>ining personally identifiable information?<br>the device retrieve personally identifiable<br>nation from or record personally identifiable | Yes        | The device can record PII to USB removable HDD,<br>USB Memory, DVD-R/RW, CD-R/RW.   |  | AR-2                  | A.15.1.4   |
| HDD, U<br>MPII-3.3 card, m<br>Does th           | the device transmit/receive or import/export   | Yes        | The device can also import and display PHI from the<br>above-mentioned device (but it is a purchasable<br>option)   |  | AR-2                  | A.15.1.4   |
| MPII-3.4 cable co<br>MPII-3.4 etc.)?<br>Does th | the device transmit/receive personally   | No         | -   |  | AR-2                  | A.15.1.4   |
| MPII-3.5 connec<br>Does th                      | fiable information via a wired network<br>ction (e.g., RJ45, fiber optic, etc.)?<br>the device transmit/receive personally<br>fiable information via a wireless network                      | Yes        | The device can connect to Ethernet networks   |  | AR-2                  | A.15.1.4   |
| MPII-3.6 cellular<br>Does th                    | ction (e.g., Wi-Fi, Bluetooth, NFC, infrared,<br>ar, etc.)?<br>the device transmit/receive personally<br>fiable information over an external network   | Yes        | The device can connect to WI-Fi (this is a<br>purchasable option)<br>The device can be remote-serviced (this is a<br>purchasable option). During such connection an           |  | AR-2                  | A.15.1.4   |
| MPII-3.7 (e.g., In<br>Does th                   | Internet)?<br>the device import personally identifiable  | Yes        | operator may access to PII.   |  | AR-2                  | A.15.1.4   |
| Does th   | the device transmit/receive personally   | No         |   |  |                       |  |
| Does th   | the device use any other mechanism to transmit,<br>t or export personally identifiable information?  |            | Device's information (that may or may not include<br>PII) can be backed up and restored. Both actions<br>require USB access and admin role.                                   |  | AR-2<br>AR-2          | A.15.1.4<br>A.15.1.4                                       |
| Management of Private Data n                    | notes:   |            |   |  | AK-2                  | A.15.1.4   |
| The dev   | DMATIC LOGOFF (ALOF)<br>evice's ability to prevent access and misuse by<br>horized users if device is left idle for a period of  |            |   | IEC TR 80001-2-2:2012                  | NIST SP 800-53 Rev. 4 | ISO 27002:2013   |
| of logg<br>inactivi                             | ne device be configured to force reauthorization<br>ged-in user(s) after a predetermined length of<br>vity (e.g., auto-logoff, session lock, password  |            | upon a configurable period of time, a screen saver<br>will hide screen information and lock session. Locked<br>sessions can be terminated to give access to another           | Section 5.1. ALOF                      | AC-12                 | None   |
|   | cted screen saver)?<br>length of inactivity time before auto-  | Yes        | user.<br>Configurable to the following values 10 min  | Section 5.1, ALUF                      | AC-12                 | None   |
| ALOF-2 logoff/:                                 | /screen lock user or administrator configurable?   | Yes        | (default), 20 min, 30min or never   | Section 5.1, ALOF                      | AC-11                 | A.11.2.8, A.11.2.9   |
|   | T CONTROLS (AUDT)<br>bility to reliably audit activity on the device.  |            |   | IEC TR 80001-2-2:2012                  | NIST SP 800-53 Rev. 4 | ISO 27002:2013   |
| AUDT-1 reports                                  |  | Yes<br>Yes | _   | Section 5.2, AUDT                      | AU-1                  | A.5.1.1, A.5.1.2, A.6.1.1,<br>A.12.1.1, A.18.1.1, A.18.2.2 |
| AUDT-1.2 the aud                                | other personally identifiable information exist in<br>udit trail?<br>vents recorded in an audit log? If yes, indicate  | No         | Audit logs are compliant to DICOM Specific Audit<br>Messages<br>Actor-start-stop, Begin-storing-instances, Instances-<br>deleted PHI-export, PHI-import, Study Deleted, Study | Section 5.2, AUDT                      | AU-2                  | None   |
|   | of the following events are recorded in the  | Yes        | used, User Authentication Login and User<br>Authentication Logout   | Section 5.2, AUDT                      | AU-2                  | None   |
|   |  | Yes        | -   | Section 5.2, AUDT                      | AU-2                  | None   |
|   |  | Yes<br>N/A | -   | Section 5.2, AUDT<br>Section 5.2, AUDT | AU-2<br>AU-2          | None   |
|   |  | N/A<br>N/A | _   | Section 5.2, AUDT<br>Section 5.2, AUDT | AU-2<br>AU-2          | None   |
|   | ntation of clinical or PII data (e.g. display, print)?   |            | _   | Section 5.2, AUDT                      | AU-2                  | None   |
|   | on/modification/deletion of data?<br>t/export of data from removable media (e.g.   | Yes        | -   | Section 5.2, AUDT                      | AU-2                  | None   |
|   |  | Yes        | _   | Section 5.2, AUDT                      | AU-2                  | None   |

|                    | Aixplorer MACH30 V3.X  |           |                   |      |      |
|--------------------|--|-----------|-------------------|------|------|
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|                    |  |           |                   |      |      |
|                    | Receipt/transmission of data or commands over a                        |           |                   |      |      |
| AUDT-2.8           | network or point-to-point connection?                                  | Yes       | Section 5.2, AUDT | AU-2 | None |
| AUDT-2.8.1         | Remote or on-site support?   | No        | Section 5.2, AUDT | AU-2 | None |
|                    | Application Programming Interface (API) and similar                    |           |                   |      |      |
| AUDT-2.8.2         | activity?  | No        | Section 5.2, AUDT | AU-2 | None |
| AUDT-2.9           | Emergency access?  | Yes       | Section 5.2, AUDT | AU-2 | None |
| AUDT-2.10          | Other events (e.g., software updates)?                                 | No        | Section 5.2, AUDT | AU-2 | None |
| AUDT-2.11          | Is the audit capability documented in more detail?                     | No        | Section 5.2, AUDT | AU-2 | None |
|                    | Can the owner/operator define or select which event                    |           |                   |      |      |
| AUDT-3             | are recorded in the audit log?   | No        | Section 5.2, AUDT | AU-2 | None |
|                    | Is a list of data attributes that are captured in the                  |           |                   |      |      |
| AUDT-4             | audit log for an event available?                                      | No        | Section 5.2, AUDT | AU-2 | None |
| AUDT-4.1           | Does the audit log record date/time?                                   | Yes       | Section 5.2, AUDT | AU-2 | None |
|                    | Can date and time be synchronized by Network Time                      |           |                   |      |      |
| AUDT-4.1.1         | Protocol (NTP) or equivalent time source?                              | Yes       | Section 5.2, AUDT | AU-2 | None |
| AUDT-5             | Can audit log content be exported?                                     | Yes       | Section 5.2, AUDT | AU-2 | None |
| AUDT-5.1           | Via physical media?  | Yes       |                   |      |      |
| AUDT-5.2           | Via IHE Audit Trail and Node Authentication (ATNA)<br>profile to SIEM? |           |                   |      |      |
| AUD1-5.2           | Via Other communications (e.g., external service                       | No        |                   |      |      |
| AUDT-5.3           | device, mobile applications)?  | No        |                   |      |      |
| AUDT-5.5           | Are audit logs encrypted in transit or on storage                      |           |                   |      |      |
| AUDT-5.4           | media?   | No        |                   |      |      |
| R001-3.4           | Can audit logs be monitored/reviewed by                                |           |                   |      |      |
| AUDT-6             | owner/operator?  | No        |                   |      |      |
| AUDT-7             | Are audit logs protected from modification?                            | Vec       | Section 5.2, AUDT | AU-2 | None |
| AUDT-7.1           | Are audit logs protected from access?                                  | Yes       |                   |      |      |
| AUDT-8             | Can audit logs be analyzed by the device?                              | No        | Section 5.2, AUDT | AU-2 | None |
|                    |  | _         |                   |      |      |

|          | AUTHORIZATION (AUTH)  |     |  | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013 |
|----------|---|-----|--|-----------------------|-----------------------|----------------|
|          | The ability of the device to determine the<br>authorization of users. |     |  |                       |                       |                |
|          | Does the device prevent access to unauthorized users                  |     |  |                       |                       |                |
| AUTH-1   | through user login requirements or other mechanism                    |     |  | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
| Rolling  | Can the device be configured to use federated                         |     | -  | Section 5.5, Korri    | IN-2                  | A.J.2.1        |
|          | credentials management of users for authorization                     |     |  |                       |                       |                |
| AUTH-1.1 | (e.g., LDAP, OAuth)?  | No  | _  | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
|          | Can the customer push group policies to the device                    |     | -  |                       |                       |                |
| AUTH-1.2 | (e.g., Active Directory)?   | No  | _  | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
|          | Are any special groups, organizational units, or group                |     |  |                       |                       |                |
| AUTH-1.3 | policies required?  | No  | _  | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
|          |   |     | 3 roles are defined: Emergency access can only       |                       |                       |                |
|          | Can users be assigned different privilege levels based                |     | acquire images , Sonographer create, review, delete, |                       |                       |                |
|          | on 'role' (e.g., user, administrator, and/or service,                 |     | export exams and admin can configure the device in   |                       |                       |                |
| AUTH-2   | etc.)?  | Yes | addition to what a sonographer can do.               | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
|          | Can the device owner/operator grant themselves                        |     |  |                       |                       |                |
|          | unrestricted administrative privileges (e.g., access                  |     |  |                       |                       |                |
|          | operating system or application via local root or                     |     |  |                       |                       |                |
| AUTH-3   | administrator account)?   | No  | _  | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
|          | Does the device authorize or control all API access                   |     |  |                       |                       |                |
| AUTH-4   | requests?   | Yes |  | Section 5.3, AUTH     | IA-2                  | A.9.2.1        |
|          | Does the device run in a restricted access mode, or                   |     | The user has no access to the underlaying operating  |                       |                       |                |
| AUTH-5   | 'kiosk mode', by default?   | Yes | system   |                       |                       |                |

|          | CYBER SECURITY PRODUCT UPGRADES (CSUP)                 |     |  | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 22 |
|----------|--|-----|--|-----------------------|-----------------------|--------|
|          | The ability of on-site service staff, remote service   |     |  |                       |                       |        |
|          | staff, or authorized customer staff to install/upgrade |     |  |                       |                       |        |
|          | device's security patches.                             |     |  |                       |                       |        |
|          | Does the device contain any software or firmware       |     |  |                       |                       |        |
|          | which may require security updates during its          |     |  |                       |                       |        |
|          | operational life, either from the device manufacturer  |     |  |                       |                       |        |
|          | or from a third-party manufacturer of the              |     |  |                       |                       |        |
|          | software/firmware? If no, answer "N/A" to questions    |     |  |                       |                       |        |
| CSUP-1   | in this section.                                       | Yes | _  |                       |                       |        |
|          | Does the device contain an Operating System? If yes,   |     |  |                       |                       |        |
| CSUP-2   | complete 2.1-2.4.                                      | Yes | _  |                       |                       |        |
|          | Does the device documentation provide instructions     |     |  |                       |                       |        |
|          | for owner/operator installation of patches or software |     |  |                       |                       |        |
| CSUP-2.1 | updates?   | Yes | Remote update is described in User Guide |                       |                       |        |
|          |  |     |  |                       |                       |        |
|          | Does the device require vendor or vendor-authorized    |     |  |                       |                       |        |
| CSUP-2.2 | service to install patches or software updates?        | Yes | _  |                       |                       |        |

|                    | Aixplorer MACH30 V3.X  |           |   |   |  |
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|                    |  |           |   |   |  |
|                    |  |           |   |   |  |
|                    | Does the device have the capability to receive remote  |           |   |   |  |
| CSUP-2.3           | installation of patches or software updates?   | Yes       | Configurable option   |   |  |
|                    | Does the medical device manufacturer allow security  |           |   |   |  |
|                    | updates from any third-party manufacturers (e.g.,  |           |   |   |  |
| CSUP-2.4           | Microsoft) to be installed without approval from the   | No        | The Operating System is maintained by SuperSonic                              |   |  |
| CSUP-2.4           | manufacturer?<br>Does the device contain Drivers and Firmware? If yes,                                   |           | Imagine   |   |  |
| CSUP-3             | complete 3.1-3.4.  |           |   |   |  |
| CSUP-3             | Does the device documentation provide instructions   | Yes       | —   |   |  |
|                    | for owner/operator installation of patches or software   |           | Firmware and drivers are installed during software                            |   |  |
| CSUP-3.1           | updates?   | No        | updates or software re-installation   |   |  |
| C30F-5.1           | upuates:   |           | updates of software re-installation   |   |  |
|                    | Does the device require vendor or vendor-authorized  |           |   |   |  |
| CSUP-3.2           | service to install patches or software updates?  | Yes       |   |   |  |
|                    |  |           | —   |   |  |
|                    | Does the device have the capability to receive remote  |           |   |   |  |
| CSUP-3.3           | installation of patches or software updates?   | Yes       |   |   |  |
|                    | Does the medical device manufacturer allow security  |           |   |   |  |
|                    | updates from any third-party manufacturers (e.g.,  |           |   |   |  |
|                    | Microsoft) to be installed without approval from the   |           |   |   |  |
| CSUP-3.4           | manufacturer?  | No        | _   |   |  |
|                    | Does the device contain Anti-Malware Software? If  |           |   |   |  |
| CSUP-4             | yes, complete 4.1-4.4.   | No        | _   |   |  |
|                    | Does the device documentation provide instructions   |           |   |   |  |
|                    | for owner/operator installation of patches or software   |           |   |   |  |
| CSUP-4.1           | updates?   | N/A       | _   |   |  |
|                    | Denothe device require to the state  |           |   |   |  |
|                    | Does the device require vendor or vendor-authorized  |           |   |   |  |
| CSUP-4.2           | service to install patches or software updates?  | N/A       | -   |   |  |
|                    | Does the device have the capability to receive remote  |           |   |   |  |
| CSUP-4.3           | installation of patches or software updates?   | N/A       |   |   |  |
| C30F*4.5           | Does the medical device manufacturer allow security  |           | -   |   |  |
|                    | updates from any third-party manufacturers (e.g.,  |           |   |   |  |
|                    | Microsoft) to be installed without approval from the   |           |   |   |  |
| CSUP-4.4           | manufacturer?  | N/A       |   |   |  |
|                    | Does the device contain Non-Operating System   |           | —   |   |  |
|                    | commercial off-the-shelf components? If yes,   |           |   |   |  |
| CSUP-5             | complete 5.1-5.4.  | Yes       | _   |   |  |
|                    | Does the device documentation provide instructions   |           |   |   |  |
|                    | for owner/operator installation of patches or software   | e         | All the software components (OS, OTS) are updated                             |   |  |
| CSUP-5.1           | updates?   | Yes       | at once   |   |  |
|                    |  |           |   |   |  |
|                    | Does the device require vendor or vendor-authorized  |           |   |   |  |
| CSUP-5.2           | service to install patches or software updates?  | Yes       | see above note  |   |  |
|                    |  |           |   |   |  |
|                    | Does the device have the capability to receive remote  |           |   |   |  |
| CSUP-5.3           | installation of patches or software updates?   | Yes       | see above note  |   |  |
|                    | Does the medical device manufacturer allow security<br>updates from any third-party manufacturers (e.g., |           |   |   |  |
|                    | Microsoft) to be installed without approval from the   |           |   |   |  |
| CSUP-5.4           | manufacturer?  | No        |   |   |  |
|                    | Does the device contain other software components  |           | -   |   |  |
|                    | (e.g., asset management software, license  |           |   |   |  |
|                    | management)? If yes, please provide details or   |           |   |   |  |
| CSUP-6             | reference in notes and complete 6.1-6.4.   | No        |   |   |  |
|                    | Does the device documentation provide instructions   |           |   |   |  |
|                    | for owner/operator installation of patches or software   |           |   |   |  |
| CSUP-6.1           | updates?   | N/A       | -   |   |  |
|                    |  |           |   |   |  |
|                    | Does the device require vendor or vendor-authorized  |           |   |   |  |
| CSUP-6.2           | service to install patches or software updates?  | N/A       | _   |   |  |
|                    |  |           |   |   |  |
|                    | Does the device have the capability to receive remote  |           |   |   |  |
| CSUP-6.3           | installation of patches or software updates?   | N/A       | —   |   |  |
|                    | Does the medical device manufacturer allow security  |           |   |   |  |
|                    | updates from any third-party manufacturers (e.g.,  |           |   |   |  |
| 6011B C 4          | Microsoft) to be installed without approval from the   |           |   |   |  |
| CSUP-6.4           | manufacturer?  | N/A       | -   |   |  |
| CCUD 7             | Does the manufacturer notify the customer when   | Vec       | Device can be configured to verify if new update are<br>available at startup. |   |  |
| CSUP-7             | updates are approved for installation?<br>Does the device perform automatic installation of              | Yes       | available at startup.<br>Software updates are applied upon administrator      |   |  |
| CSUP-8             | Does the device perform automatic installation of<br>software updates?                                   | No        | Software updates are applied upon administrator<br>approval.                  |   |  |
| CJUF-0             | sortware updates:  |           | approval.   |   |  |
|                    | Does the manufacturer have an approved list of third-  |           | No third party software can be installed on the                               |   |  |
| CSUP-9             |  |           | device  |   |  |
|                    | , , , ,  |           |   |   |  |
|                    |  |           |   |   |  |

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|                    | Can the owner/operator install manufacturer-       |           |
|                    | approved third-party software on the device        |           |
| SUP-10             | themselves?  | No        |
|                    | Does the system have mechanism in place to prevent |           |
| CSUP-10.1          | installation of unapproved software?               | Yes       |
|                    | Does the manufacturer have a process in place to   |           |
| CSUP-11            |  | Yes       |
|                    | Does the manufacturer provide customers with       |           |
| CSUP-11.1          | review and approval status of updates?             | No        |
| CSUP-11.2          | Is there an update review cycle for the device?    | Yes       |

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|                    | HEALTH DATA INTEGRITY AND AUTHENTICITY<br>(IGAU)<br>How the device ensures that the stored data on the<br>device has not been altered or destroyed in a non-<br>authorized manner and is from the originator. |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013                            |
| IGAU-1             | Does the device provide data integrity checking<br>mechanisms of stored health data (e.g., hash or digita<br>signature)?<br>Does the device provide error/failure protection and                              | l<br>Yes  | The mechanisms are provided by the OS   | Section 5.9, IGAU     | SC-28                 | A.18.1.3                                  |
| IGAU-2             | recovery mechanisms for stored health data (e.g.,<br>RAID-5)?   | Yes       | The mechanisms are provided by the OS   | Section 5.9, IGAU     | SC-28                 | A.18.1.3                                  |
|                    | MALWARE DETECTION/PROTECTION (MLDP)<br>The ability of the device to effectively prevent, detect<br>and remove malicious software (malware).   |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013                            |
| MLDP-1             | Is the device capable of hosting executable software?   | No        | User has no access to underlying OS, MAC prevent<br>installation of software and partitions are mounted<br>in noexec<br>Malicious code protection mechanisms by:<br>- Use of secure Open-source operating system<br>- Pervasive configuration management and<br>comprehensive software integrity controls are used<br>to prevent execution of unauthorized code<br>- secure coding practices, configuration | Section 5.10, MLDP    |                       |   |
| MLDP-2             | Does the device support the use of anti-malware<br>software (or other anti-malware mechanism)? Provide<br>details or reference in notes.<br>Does the device include anti-malware software by                  | Yes       | management and control, rursted procurement<br>processes, and monitoring practices to help ensure<br>that software does not perform functions other than<br>the functions intended  | Section 5.10, MLDP    | SI-3                  | A.12.2.1<br>A.9.2.3, A.9.4.5, A.12.1.2,   |
| MLDP-2.1           | default?<br>Does the device have anti-malware software available  | No        | -   | Section 5.10, MLDP    | CM-5                  | A.12.1.4, A.12.5.1                        |
| MLDP-2.2           | as an option?<br>Does the device documentation allow the  | No        | -   | Section 5.10, MLDP    | AU-6                  | A.12.4.1, A.16.1.2, A.16.1.4              |
| MLDP-2.3           | owner/operator to install or update anti-malware<br>software?<br>Can the device owner/operator independently (re-   | No        | -   | Section 5.10, MLDP    | CP-10                 | A.17.1.2                                  |
| MLDP-2.4           | )configure anti-malware settings?   | No        | -   | Section 5.10, MLDP    | AU-2                  | None                                      |
| MLDP-2.5           | Does notification of malware detection occur in the<br>device user interface?   | N/A       |   |                       |                       |   |
| MLDP-2.6           | Can only manufacturer-authorized persons repair<br>systems when malware has been detected?  | Yes       |   |                       |                       |   |
| MLDP-2.7           | Are malware notifications written to a log?<br>Are there any restrictions on anti-malware (e.g.,  | N/A       |   |                       |                       |   |
| MLDP-2.8           | purchase, installation, configuration, scheduling)?   | Yes       |   |                       |                       |   |
|                    |   |           | Device has been designed to not execute any data<br>imported on the system. only Signed software<br>components can be installed on system.<br>SuperSonic Imagine recommends the following cyber<br>Hygiene practices:<br>Ensure that your equipment is in a physically  |                       |                       |   |
|                    |   |           | protected and actively monitored area;<br>Ensure that only secure/sanitized USB storage<br>devices are utilized;<br>Ensure that your equipment is protected<br>against network access by unsupervised systems<br>(typically provided by mechanisms such as frewalls   |                       |                       |   |
|                    | If the answer to MLDP-2 is NO, and anti-malware<br>cannot be installed on the device, are other   |           | and VPNs); and<br>Ensure your data has been backed up and stored  |                       |                       | A.12.6.1, A.14.2.2, A.14.2.3,             |
| MLDP-3             | compensating controls in place or available?<br>Does the device employ application whitelisting that  | Yes       | according to your institution policy.   | Section 5.10, MLDP    | SI-2                  | A.12.0.1, A.14.2.2, A.14.2.3,<br>A.16.1.3 |
| MLDP-4             | restricts the software and services that are permitted<br>to be run on the device?  | No        | _   | Section 5.10, MLDP    | SI-3                  | A.12.2.1                                  |
| MLDP-5             | Does the device employ a host-based intrusion<br>detection/prevention system?   | No        | _   | Section 5.10, MLDP    | SI-4                  | None                                      |
| MLDP-5.1           | Can the host-based intrusion detection/prevention<br>system be configured by the customer?  | N/A       | _   | Section 5.10, MLDP    | CM-7                  | A.12.5.1                                  |
| MLDP-5.2           | Can a host-based intrusion detection/prevention<br>system be installed by the customer?   | No        |   | Section 5.10, MLDP    |                       |   |
|                    |   |           |   |                       |                       |   |
|                    | NODE AUTHENTICATION (NAUT)<br>The ability of the device to authenticate<br>communication partners/nodes.  |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013                            |

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|----------------------------|--|--|---|-----------------------|-----------------------|--|
| SuperSonic imagine         | Aixpioler MACH20 VS.X  | 0.00.005   | 13-100-2020   |                       |                       |  |
|                            | Does the device 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 (e.g.  |  |   |                       |                       |  |
| NAUT-1                     | Web APIs, SMTP, SNMP)?   | Yes  | DICOM TLS   | Section 5.11, NAUT    | SC-23                 | None                                     |
|                            | Are network access control mechanisms supported  |  |   |                       |                       |  |
| NAUT 2                     | (E.g., does the device have an internal firewall, or use   |  | reduced number of services available  | Section 5.11, NAUT    | SC-7                  | A.13.1.1, A.13.1.3,<br>A.13.2.1,A.14.1.3 |
| NAUT-2                     | a network connection white list)?<br>Is the firewall ruleset documented and available for        | No   | reduced number of services available  | Section 5.11, NAUT    | 50-7                  | A.13.2.1,A.14.1.3                        |
| NAUT-2.1                   | review?  | N/A  |   |                       |                       |  |
| 10101 2.1                  | Does the device use certificate-based network  |  | -   |                       |                       |  |
| NAUT-3                     | connection authentication?   | Yes  | DICOM TLS   |                       |                       |  |
|                            |  |  |   |                       |                       |  |
|                            |  |  |   |                       |                       |  |
|                            | CONNECTIVITY CAPABILITIES (CONN)   |  |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013                           |
|                            | All network and removable media connections must   |  |   |                       |                       |  |
|                            | be considered in determining appropriate security  |  |   |                       |                       |  |
|                            | controls. This section lists connectivity capabilities   |  |   |                       |                       |  |
|                            | that may be present on the device.   |  |   |                       |                       |  |
| CONN-1                     | Does the device have hardware connectivity   | Y  |   |                       |                       |  |
| CONN-1.1                   | capabilities?<br>Does the device support wireless connections?                                   | Yes<br>Yes   | -   |                       |                       |  |
| CONN-1.1                   | Does the device support Wi-Fi?   | Yes  |   |                       |                       |  |
| CONN-1.1.2                 | Does the device support Bluetooth?   | No   | -   |                       |                       |  |
|                            | Does the device support other wireless network   |  | -   |                       |                       |  |
| CONN-1.1.3                 | connectivity (e.g. LTE, Zigbee, proprietary)?  | No   | _   |                       |                       |  |
|                            | Does the device support other wireless connections   |  |   |                       |                       |  |
| CONN-1.1.4                 | (e.g., custom RF controls, wireless detectors)?  | No   | _   |                       |                       |  |
| CONN-1.2                   | Does the device support physical connections?  | Yes  | _   |                       |                       |  |
|                            |  |  |   |                       |                       |  |
| CONN-1.2.1<br>CONN-1.2.2   | Does the device have available RJ45 Ethernet ports?<br>Does the device have available USB ports? | Yes  | -   |                       |                       |  |
| CONN-1.2.2                 | Does the device require, use, or support removable   | Yes  | -   |                       |                       |  |
| CONN-1.2.3                 |  | Yes  |   |                       |                       |  |
| 00000 112.05               |  |  | -   |                       |                       |  |
| CONN-1.2.4                 | Does the device support other physical connectivity?   | No   | _   |                       |                       |  |
|                            |  |  | The supported network protocols are: DICOM, DHCP,                               |                       |                       |  |
|                            | Does the manufacturer provide a list of network ports  |  | NTP.  |                       |                       |  |
|                            | and protocols that are used or may be used on the  |  | HTTPS protocol may be enabled for remote  |                       |                       |  |
| CONN-2                     | device?  | Yes  | maintenance.  |                       |                       |  |
| CONN-3                     | Can the device communicate with other systems<br>within the customer environment?                | Yes  | The device may be connected to a PACS, to a<br>Modality Worklist, to a printer. |                       |                       |  |
| CONN-3                     | Can the device communicate with other systems  | res  | wodanty workist, to a printer.  |                       |                       |  |
|                            | external to the customer environment (e.g., a service  |  |   |                       |                       |  |
| CONN-4                     | host)?   | Yes  | The device may be remotely serviceable  |                       |                       |  |
| CONN-5                     | Does the device make or receive API calls?   | No   | _   |                       |                       |  |
|                            | Does the device require an internet connection for its   |  |   |                       |                       |  |
| CONN-6                     | intended use?  | No   | -   |                       |                       |  |
|                            | Does the device support Transport Layer Security   |  |   |                       |                       |  |
| CONN-7                     | (TLS)?   | Yes  | for DICOM connection  |                       |                       |  |
| CONN-7.1                   | Is TLS configurable?   | Yes  | see DICOM Conformance statement and User Guide                                  |                       |                       |  |
| 0000-7.1                   | is resconingurable:  | 163  | see bicow contonnance statement and oser Guide                                  |                       |                       |  |
|                            | Does the device provide operator control functionality   | y dia amin'ny faritr'o dia mandritry dia mandritry dia mandritry dia mandritry dia mandritry dia mandritry dia |   |                       |                       |  |
| CONN-8                     | from a separate device (e.g., telemedicine)?   | No   | _   |                       |                       |  |
|                            |  |  |   |                       |                       |  |
|                            |  |  |   |                       |                       |  |
|                            | PERSON AUTHENTICATION (PAUT)   |  |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013                           |
|                            | The ability to configure the device to authenticate  |  |   |                       |                       |  |
|                            | users.   |  |   |                       |                       |  |
|                            | Does the device support and enforce unique IDs and   |  | A accounts oviets, omorrangy accors, con  |                       |                       |  |
| PAUT-1                     | passwords for all users and roles (including service<br>accounts)?                               | Yes  | 4 accounts exists: emergency access, sonographer,<br>admin and service          | Section 5.12, PAUT    | IA-2                  | A.9.2.1                                  |
| 1001-1                     | Does the device enforce authentication of unique IDs   |  | community service   | Section 5.12, 1 A01   |                       |  |
|                            | and passwords for all users and roles (including   |  |   |                       |                       |  |

|          | users.  |     |   |                    |         |                            |
|----------|---|-----|---|--------------------|---------|----------------------------|
|          | Does the device support and enforce unique IDs and    |     |   |                    |         |                            |
|          | passwords for all users and roles (including service  |     | 4 accounts exists: emergency access, sonographer, |                    |         |                            |
| PAUT-1   | accounts)?  | Yes | admin and service                                 | Section 5.12, PAUT | IA-2    | A.9.2.1                    |
|          | Does the device enforce authentication of unique IDs  |     |   |                    |         |                            |
|          | and passwords for all users and roles (including      |     |   |                    |         |                            |
| PAUT-1.1 | service accounts)?                                    | No  | _   | Section 5.12, PAUT | IA-2    | A.9.2.1                    |
|          | Is the device configurable to authenticate users      |     |   |                    |         |                            |
|          | through an external authentication service (e.g., MS  |     |   |                    |         |                            |
| PAUT-2   | Active Directory, NDS, LDAP, OAuth, etc.)?            | No  | _   | Section 5.12, PAUT | IA-5    | A.9.2.1                    |
|          | Is the device configurable to lock out a user after a |     |   |                    |         |                            |
| PAUT-3   | certain number of unsuccessful logon attempts?        | No  | _   | Section 5.12, PAUT | IA-2    | A.9.2.1                    |
|          | Are all default accounts (e.g., technician service    |     |   |                    |         |                            |
|          | accounts, administrator accounts) listed in the       |     |   |                    | A.1     | 4.1.1, A.14.2.7, A.14.2.9, |
| PAUT-4   | documentation?  | Yes | _   | Section 5.12, PAUT | SA-4(5) | A.15.1.2                   |
| PAUT-5   | Can all passwords be changed?                         | Yes | _   | Section 5.12, PAUT |         |                            |
|          |   |     |   |                    |         |                            |

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| Supersonic magne   |  | 10.00.000 | 15 1107 2020  |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
|                    | Is the device configurable to enforce creation of user   |           |   |                       |                       |                              |
|                    | account passwords that meet established                  |           |   |                       |                       |                              |
| PAUT-6             | (organization specific) complexity rules?                | No        | _   | Section 5.12, PAUT    | IA-2                  | A.9.2.1                      |
|                    | Does the device support account passwords that           |           |   |                       |                       |                              |
| PAUT-7             | expire periodically?                                     | No        | _   |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
| PAUT-8             | Does the device support multi-factor authentication?     | No        |   |                       |                       |                              |
| PAUT-9             | Does the device support single sign-on (SSO)?            | No        | _   | Section 5.12, PAUT    | IA-2                  | A.9.2.1                      |
| TA01-5             | boes the device support single sign-on (550):            | No        | -   | Section 5.12, FA01    | 18-2                  | A.3.2.1                      |
|                    |  |           |   | 6 V. 540 0417         |                       |                              |
| PAUT-10            | Can user accounts be disabled/locked on the device?      |           | -   | Section 5.12, PAUT    | IA-2                  | A.9.2.1                      |
| PAUT-11            | Does the device support biometric controls?              | No        | -   | Section 5.12, PAUT    | IA-2                  | A.9.2.1                      |
|                    | Does the device support physical tokens (e.g. badge      |           |   |                       |                       |                              |
| PAUT-12            | access)?   | No        | _   |                       |                       |                              |
|                    | Does the device support group authentication (e.g.       |           |   |                       |                       |                              |
| PAUT-13            | hospital teams)?   | No        | _   |                       |                       |                              |
|                    | Does the application or device store or manage           |           |   |                       |                       |                              |
| PAUT-14            | authentication credentials?                              | Yes       |   |                       |                       |                              |
| 11101 14           | dementeerion eredentais.                                 |           | Person authentication is achieved through the Linux |                       |                       |                              |
|                    |  |           | Pluggable Authentication Module (PAM) is a          |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
| PAUT-14.1          | Are credentials stored using a secure method?            | Yes       | mechanism   |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
|                    | PHYSICAL LOCKS (PLOK)                                    |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013               |
|                    | Physical locks can prevent unauthorized users with       |           |   |                       |                       |                              |
|                    | physical access to the device from compromising the      |           |   |                       |                       |                              |
|                    | integrity and confidentiality of personally identifiable |           |   |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
|                    | information stored on the device or on removable         |           |   |                       |                       |                              |
|                    | media  |           |   |                       |                       |                              |
|                    | Is the device software only? If yes, answer "N/A" to     |           |   |                       |                       |                              |
| PLOK-1             | remaining questions in this section.                     | No        | _   | Section 5.13, PLOK    | PE- 3(4)              | A.11.1.1, A.11.1.2, A.11.1.3 |
|                    | Are all device components maintaining personally         |           |   |                       |                       |                              |
|                    | identifiable information (other than removable           |           |   |                       |                       |                              |
|                    | media) physically secure (i.e., cannot remove without    |           |   |                       |                       |                              |
| PLOK-2             | tools)?  | Yes       |   | Section 5.13, PLOK    | PE- 3(4)              | A.11.1.1, A.11.1.2, A.11.1.3 |
|                    | Are all device components maintaining personally         |           | _   |                       | . = (.)               | ,,,                          |
|                    | identifiable information (other than removable           |           |   |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
|                    | media) physically secured behind an individually         |           |   |                       |                       |                              |
| PLOK-3             | keyed locking device?                                    | No        | disks maintaining e-PHI are crypted                 | Section 5.13, PLOK    | PE- 3(4)              | A.11.1.1, A.11.1.2, A.11.1.3 |
|                    | Does the device have an option for the customer to       |           |   |                       |                       |                              |
|                    | attach a physical lock to restrict access to removable   |           |   |                       |                       |                              |
| PLOK-4             | media?   | No        |   | Section 5.13, PLOK    | PE- 3(4)              | A.11.1.1, A.11.1.2, A.11.1.3 |
|                    |  |           |   |                       |                       |                              |
|                    |  |           |   |                       |                       |                              |
|                    | ROADMAP FOR THIRD PARTY COMPONENTS IN                    |           |   |                       |                       |                              |
|                    | DEVICE LIFE CYCLE (RDMP)                                 |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013               |
|                    |  |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-55 Kev. 4 | 130 27002:2013               |
|                    | Manufacturer's plans for security support of third-      |           |   |                       |                       |                              |
|                    | party components within the device's life cycle.         |           |   |                       |                       |                              |
|                    | Was a secure software development process, such as       |           |   |                       |                       |                              |
|                    | ISO/IEC 27034 or IEC 62304, followed during product      |           |   |                       |                       |                              |
| RDMP-1             | development?   | Yes       | IEC 62304   | Section 5.14, RDMP    | CM-2                  | None                         |
|                    | Does the manufacturer evaluate third-party               |           |   |                       |                       |                              |
|                    | applications and software components included in the     |           |   |                       |                       |                              |
| RDMP-2             | device for secure development practices?                 | Yes       |   | Section 5.14, RDMP    | CM-8                  | A.8.1.1, A.8.1.2             |
| ADIVIT=2           |  | 163       | -   | Section 5.14, NDIVIP  | LIVIFO                | A.O.1.1, A.O.1.2             |
|                    | Does the manufacturer maintain a web page or other       |           |   |                       |                       |                              |
|                    | source of information on software support dates and      |           | If remote service is enabled user can be notified   |                       |                       |                              |
| RDMP-3             | updates?   | No        | when an update is available                         | Section 5.14, RDMP    | CM-8                  | A.8.1.1, A.8.1.2             |
|                    |  |           | At most every 2 months a service pack will be       |                       |                       |                              |
|                    |  |           | released incorporating security patch when          |                       |                       |                              |
|                    |  |           | necessary, and every year a major release with an   |                       |                       |                              |
|                    | Does the manufacturer have a plan for managing third     | d.        | updated version of the OS and 3rd party components  |                       |                       |                              |
| RDMP-4             | party component end-of-life?                             | Yes       | will be released.                                   | Section 5.14. RDMP    | CM-8                  | A.8.1.1. A.8.1.2             |

SBOM-1

SBOM-2

SBOM-2.1

SBOM-2.2

party component end-of-life?

RDMP section.

components identified?

SOFTWARE BILL OF MATERIALS (SBoM)

A Software Bill of Material (SBoM) lists all the software components that are incorporated into the device being described for the purpose of operational security planning by the healthcare delivery organization. This section supports controls in the

Is the SBoM for this product available?

Are the software components identified?

Does the SBoM follow a standard or common method in describing software components?

Are the developers/manufacturers of the software

Yes

Yes

No

Yes

No

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Section 5.14, RDMP

IEC TR 80001-2-2:2012

CM-8

NIST SP 800-53 Rev. 4

A.8.1.1, A.8.1.2

ISO 27002:2013

will be released.

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| SuperSonic imagine   | Aixplorer MACH30 V3.X<br>Aixplorer MACH20 V3.X   | RD.DD.533 | 15-Nov-2020   |                       |                       |   |
|----------------------|--|-----------|---|-----------------------|-----------------------|---|
| SBOM-2.3<br>SBOM-2.4 | Are the major version numbers of the software<br>components identified?<br>Are any additional descriptive elements identified?<br>Does the device include a command or process   | Yes<br>No | Ξ   |                       |                       |   |
| SBOM-3<br>SBOM-4     | method available to generate a list of software<br>components installed on the device?<br>Is there an update process for the SBoM?   | No<br>No  | Ξ   |                       |                       |   |
|                      | SYSTEM AND APPLICATION HARDENING (SAHD)  |           |   | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013  |
|                      | The device's inherent resistance to cyber attacks and<br>malware.  |           |   |                       | CM-7                  | A.12.5.1*   |
|                      |  |           | The folowing compensation are implemented to<br>harden system<br>- Single-function system: US<br>- Address space layout randomization (ASLR)<br>- Protected database link (only local access enabled,<br>password protection)/lunued services disabled<br>- Remote loging service disabled<br>- Use of Mandatory Access Control (MAC)<br>mecanism |                       |                       |   |
| SAHD-1               | Is the device hardened in accordance with any<br>industry standards?   | Yes       | <ul> <li>Least privilege principle</li> <li>Least functionality principle</li> </ul>  | Section 5.15, SAHD    | AC-17(2)/IA-3         | A.6.2.1, A.6.2.2, A.13.1.1,<br>A.13.2.1, A.14.1.2/None                        |
| SAHD-2               | Has the device received any cybersecurity<br>certifications?   | No        | _   | Section 5.15, SAHD    | SA-12(10)             | A.14.2.7, A.15.1.1, A.15.1.2,<br>A.15.1.3                                     |
| SAHD-3               | Does the device employ any mechanisms for software<br>integrity checking   | No        | _   |                       |                       |   |
|                      | Does the device employ any mechanism (e.g., release<br>specific hash key, checksums, digital signature, etc.) tr<br>ensure the installed software is manufacturer-               |           | All the software included in the medical device are<br>provided by a trusted source provider (GNU/Linux<br>Debian). The Debian packages that are included on<br>the medical devices are digitally signed by<br>SuperSonic Imagine.<br>Debian package is a tamper-evident packaging  |                       |                       |   |
| SAHD-3.1             | authorized?<br>Does the device employ any mechanism (e.g., release   |           | format.<br>All the software included in the medical device are<br>provided by a trusted source provider (GNU/Linux<br>Debian). The Debian packages that are included on<br>the medical devices are digitally signed by  |                       |                       |   |
|                      | specific hash key, checksums, digital signature, etc.) to<br>ensure the software updates are the manufacturer-   |           | SuperSonic Imagine.<br>Debian package is a tamper-evident packaging   |                       |                       |   |
| SAHD-3.2             | authorized updates?<br>Can the owner/operator perform software integrity<br>checks (i.e., verify that the system has not been  | Yes       | format.   | Section 5.15, SAHD    | CM-8                  | A.8.1.1, A.8.1.2<br>A.6.2.2, A.9.1.2, A.9.4.1,<br>A.9.4.4, A.9.4.5, A.13.1.1, |
| SAHD-4               | modified or tampered with)?<br>Is the system configurable to allow the<br>implementation of file-level, patient level, or other  | No        | -   | Section 5.15, SAHD    | AC-3                  | A.14.1.2, A.14.1.3, A.18.1.3  |
| SAHD-5               | types of access controls?  | No        | Emergency access can only acquire images  | Section 5.15, SAHD    | CM-7                  | A.12.5.1*   |
|                      |  |           | example of access can only acquire images<br>Sonographer role can acquire images, manage<br>exams, export exams, and change non-security<br>settings<br>admin roles can do all the above plus change  |                       |                       |   |
| SAHD-5.1             | Does the device provide role-based access controls?<br>Are any system or user accounts restricted or disabled  |           | security settings.  | Section 5.15, SAHD    | CM-7                  | A.12.5.1*   |
| SAHD-6               | by the manufacturer at system delivery?<br>Are any system or user accounts configurable by the   | No        | -   | Section 5.15, SAHD    | CM-8                  | A.8.1.1, A.8.1.2  |
| SAHD-6.1             | end user after initial configuration?<br>Does this include restricting certain system or user  | No        | Only password can be changed  | Section 5.15, SAHD    | CM-7                  | A.12.5.1*   |
| SAHD-6.2             | accounts, such as service technicians, to least<br>privileged access?<br>Are all shared resources (e.g., file shares) which are  | No        | -   | Section 5.15, SAHD    | CM-7                  | A.12.5.1*   |
| SAHD-7               | not required for the intended use of the device<br>disabled?<br>Are all communication ports and protocols that are   | Yes       | -   | Section 5.15, SAHD    | CM-7                  | A.12.5.1*   |
| SAHD-8               | not required for the intended use of the device<br>disabled?<br>Are all services (e.g., telnet, file transfer protocol<br>[FTP], internet information server [IIS], etc.), which | Yes       | -   | Section 5.15, SAHD    | SA-18                 | None  |
| SAHD-9               | are not required for the intended use of the device<br>deleted/disabled?<br>Are all applications (COTS applications as well as OS-   | Yes       | -   | Section 5.15, SAHD    | CM-6                  | None  |
| SAHD-10              | included applications, e.g., MS Internet Explorer, etc.)<br>which are not required for the intended use of the<br>device deleted/disabled?                                       | Yes       | A minimal version of the OS is installed on the<br>device. No remote logging, no web browser or mail<br>user agent are installed  | Section 5.15, SAHD    | SI+2                  | A.12.6.1, A.14.2.2, A.14.2.3,<br>A.16.1.3                                     |
|                      |  |           |   |                       |                       |   |

| SuperSonic imagine   | Aixplorer MACH30 V3.X<br>Aixplorer MACH20 V3.X  | RD.DD.533                            | 15-Nov-2020  |   |   |  |
|--|---|--------------------------------------|--|---|---|--|
| SAHD-11  | Can the device prohibit boot from uncontrolled or<br>removable media (i.e., a source other than an internal<br>drive or memory component)?  | Yes                                  | Disabled in the BIOS   |   |   |  |
| SAHD-12  | Can unauthorized software or hardware be installed<br>on the device without the use of physical tools?  | No                                   | _  |   |   |  |
| SAHD-13  | Does the product documentation include information<br>on operational network security scanning by users?<br>Can the device be hardened beyond the default   | No                                   | -  |   |   |  |
| SAHD-14<br>SAHD-14.1   | provided state?<br>Are instructions available from vendor for increased<br>hardening?   | Yes                                  | —<br>see User Guide  |   |   |  |
| SHAD-15<br>SAHD-16   | Can the system prevent access to BIOS or other<br>bootloaders during boot?<br>Have additional hardening methods not included in<br>2.3.19 been used to harden the device?   | No                                   |  |   |   |  |
| SAHD-16  | 2.3.19 been used to harden the device? SECURITY GUIDANCE (SGUD)   | No                                   | _  | IEC TR 80001-2-2:2012   | NIST SP 800-53 Rev. 4                           | ISO 27002:2013   |
|  | Availability of security guidance for operator and<br>administrator of the device and manufacturer sales<br>and service.  |                                      |  |   |   |  |
| SGUD-1   | Does the device include security documentation for<br>the owner/operator?<br>Does the device have the capability, and provide   | Yes                                  | Security information are included in the User Guide  | Section 5.16, SGUD  | AT-2/PL-2                                       | A.7.2.2, A.12.2.1/A.14.1.1   |
| SGUD-2   | instructions, for the permanent deletion of data from the device or media?  | No                                   | Permanent deletion of data require storage device<br>destruction.  | Section 5.16, SGUD  | MP-6  | A.8.2.3, A.8.3.1, A.8.3.2,<br>A.11.2.7<br>A.9.1.2, A.9.2.3, A.9.4.4, |
| SGUD-3<br>SGUD-3.1   | Are all access accounts documented?<br>Can the owner/operator manage password control for<br>all accounts?  | Yes<br>Yes                           | —<br>each user can change his own password, but admin<br>can change all passwords  | Section 5.16, SGUD  | AC-6,IA-2                                       | A.9.4.5/A.9.2.1  |
| SGUD-4   | Does the product include documentation on<br>recommended compensating controls for the device?  | Yes                                  | _  |   |   |  |
|  |   |                                      |  |   |   |  |
|  | HEALTH DATA STORAGE CONFIDENTIALITY<br>(STCF)   |                                      |  | IEC TR 80001-2-2:2012   | NIST SP 800-53 Rev. 4                           | ISO 27002:2013   |
|  | (STCF)<br>The ability of the device to ensure unauthorized<br>access does not compromise the integrity and<br>confidentiality of personally identifiable information  |                                      |  | IEC TR 80001-2-2:2012   | NIST SP 800-53 Rev. 4                           | ISO 27002:2013   |
| STCF-1   | (STCF)<br>The ability of the device to ensure unauthorized<br>access does not compromise the integrity and<br>confidentiality of personally identifiable information<br>stored on the device or removable media.<br>Can the device encrypt data at rest?  | Yes                                  | e-PHI contained in database, DICOM objects, native<br>archives and logs are stored on an encrypted<br>partition using TPM1.2   | IEC TR 80001-2-2:2012<br>Section 5.17, STCF   | NIST SP 800-53 Rev. 4<br>SC-28                  | ISO 27002:2013<br>A82.3  |
| STCF-1<br>STCF-1.1<br>STCF-1.2   | (STCF)<br>The ability of the device to ensure unauthorized<br>access does not compromise the integrity and<br>confidentiality of personally identifiable information<br>stored on the device or removable media.  | Yes<br>Yes<br>Yes                    | archives and logs are stored on an encrypted   |   |   |  |
| STCF-1.1   | (STCF)<br>The ability of the device to ensure unauthorized<br>access does not compromise the integrity and<br>confidentiality of personally identifiable information<br>stored on the device or removable media.<br>Can the device encrypt data at rest?<br>is all data encrypted or otherwise protected?<br>is the data encryption capability configured by<br>default?<br>Are instructions available to the customer to<br>configure encryption?  | Yes                                  | archives and logs are stored on an encrypted<br>partition using TPM1.2   |   |   |  |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2<br>STCF-3                               | (STCF)<br>The ability of the device to ensure unauthorized<br>access does not compromise the integrity and<br>confidentiality of personally identifiable information<br>stored on the device or removable media.<br>Can the device encrypt data at rest?<br>Is all data encrypter or otherwise protected?<br>Is the data encryption capability configured by<br>default?<br>Are instructions available to the customer to<br>configure encryption?<br>Can the encryption?<br>Can the encryption is a database located on the<br>device?<br>Is the data stored in a database external to the   | Yes<br>No<br>Yes                     | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during   | Section 5.17, STCF  | SC-28   | A.8.2.3  |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2   | (STCF)<br>The ability of the device to ensure unauthorized<br>access does not compromise the integrity and<br>confidentiality of personally identifiable information<br>stored on the device or removable media.<br>Can the device encrypt data at rest?<br>Is all data encrypted or otherwise protected?<br>Is the data encryption capability configured by<br>default?<br>Are instructions available to the customer to<br>configure encryption?<br>Can the encryption keys be changed or configured?<br>Is the data stored in a database external to the<br>device?  | Yes<br>Yes<br>No                     | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during   | Section 5.17, STCF<br>Section 5.17, STCF  | SC-28<br>SC-28                                  | A.8.2.3<br>A.8.2.3   |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2<br>STCF-3                               | (STCF) The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypt data at rest? is all data encryption capability configured by default? Are instructions available to the customer to configure encryption keys be changed or configured? Is the data stored in a database located on the device? Is the data stored in a database external to the device? TARANSILSION CONFIDENTIALITY (TXCF) The ability of the device to ensure the confidentiality   | Yes<br>No<br>Yes                     | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during   | Section 5.17, STCF  | SC-28   | A.8.2.3  |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2<br>STCF-3<br>STCF-4                     | (STCF) The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypted or otherwise protected? Is the data encrypted or otherwise protected? Is the data encryption capability configured by default? Are instructions available to the customer to configure encryption keys be changed or configured? Is the data stored in a database located on the device? State data stored in a database external to the device? TRANSMISSION CONFIDENTIALITY (TRCF) The ability of the device to ensure the confidentiality of transmitted personally identifiable information. Can personally identifiable information be   | Yes<br>Yes<br>No<br>Yes<br>No        | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during   | Section 5.17, STCF<br>Section 5.17, STCF  | SC-28<br>SC-28<br>NIST SP 800-53 Rev. 4         | A82.3<br>A82.3<br>ISO 27002:2013                                     |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2<br>STCF-3<br>STCF-4                     | (STCF) The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypt data at rest? Is hal data encryption capability configured by default? Are instructions available to the customer to configure encryption capability configured by default? Can the encryption keys be changed or configured? Is the data stored in a database located on the device? State data stored in a database located on the device? TRANSMISSION CONFIDENTIALITY (TRCF) The ability of the device to ensure the confidentiality of transmitted personally identifiable information be transmitted only via a point-to-point dedicated cable?   | Yes<br>Yes<br>No<br>Yes<br>No        | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during<br>installation. There is no way to change them | Section 5.17, STCF<br>Section 5.17, STCF<br>IEC TR 80001-2-2:2012<br>Section 5.18, TXCF | SC-28<br>SC-28                                  | A.8.2.3<br>A.8.2.3   |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2<br>STCF-3<br>STCF-4                     | (STCF) The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypt data at rest? is all data encryption capability configured by default? Are instructions available to the customer to configure encryption teys be changed or configured? Is the data stored in a database located on the device? Can the encryption keys be changed or configured? Is the data stored in a database located on the device? TRANSMISSION CONFIDENTIALITY (TXCF) The ability of the device to ensure the confidentiality of transmitted personally identifiable information be transmitted only via a point-to-point dedicated cable? Is personally identifiable information encrypted prior to transmission via a network or removable media? If data is not encrypted by default, can the customer configure encryption points?                               | Yes<br>Yes<br>No<br>Yes<br>No        | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during<br>installation. There is no way to change them | Section 5.17, STCF<br>Section 5.17, STCF  | 5C-28<br>SC-28<br>NIST SP 800-53 Rev. 4<br>CM-7 | A.8.2.3<br>A.8.2.3<br>ISO 27002:2013<br>A.12.5.1                     |
| STCF-1.1<br>STCF-1.2<br>STCF-1.3<br>STCF-2<br>STCF-3<br>STCF-4<br>TXCF-1<br>TXCF-1 | (STCF) The ability of the device to ensure unauthorized access does not compromise the integrity and confidentiality of personally identifiable information stored on the device or removable media. Can the device encrypted or otherwise protected? Is the data encrypted or otherwise protected? Is the data encryption capability configure by default? Are instructions available to the customer to configure encryption keys be changed or configured by default? Can the encryption keys be changed or configured? Is the data stored in a database located on the device? State data stored in a database located on the device? TRANSMISSION CONFIDENTIALITY (TRCF) The ability of the device to ensure the confidentiality of transmitted personally identifiable information be transmission via a network or removable media? Is personally identifiable information encrypted prior to transmission via a network or removable media? If data is not encrypted by default, can the customer | Yes<br>Yes<br>No<br>Yes<br>No<br>Yes | archives and logs are stored on an encrypted<br>partition using TPM1.2<br>Encryption can't be disabled<br>Encryption can't be disabled or configured<br>The encryption keys are generated during<br>installation. There is no way to change them | Section 5.17, STCF<br>Section 5.17, STCF<br>IEC TR 80001-2-2:2012<br>Section 5.18, TXCF | 5C-28<br>SC-28<br>NIST SP 800-53 Rev. 4<br>CM-7 | A.8.2.3<br>A.8.2.3<br>ISO 27002:2013<br>A.12.5.1                     |

| SuperSonic imagine | Aixplorer MACH30 V3.X<br>Aixplorer MACH20 V3.X  | RD.DD.533 | 15-Nov-2020              | 0                     |                       |  |  |
|--------------------|---|-----------|--------------------------|-----------------------|-----------------------|--|--|
| TXCF-5             | Are secure transmission methods<br>supported/implemented (DICOM, HL7, IEEE 11073)?  | Yes       | DICOM TLS is implemented |                       |                       |  |  |
|                    | TRANSMISSION INTEGRITY (TXIG)<br>The ability of the device to ensure the integrity of<br>transmitted data.  |           |                          | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013   |  |
| TXIG-1<br>TXIG-2   | Does the device support any mechanism (e.g., digital<br>signatures) intended to ensure data is not modified<br>during transmission?<br>Does the device include multiple sub-components<br>connected by external cables? | Yes       | DICOM TLS                | Section 5.19, TXIG    | SC-8                  | A.8.2.3, A.13.1.1, A.13.2.1,<br>A.13.2.3, A.14.1.2, A.14.1.3 |  |
|                    |   |           |                          |                       |                       | 100 27002 2012   |  |
|                    | REMOTE SERVICE (RMOT)<br>Remote service refers to all kinds of device<br>maintenance activities performed by a service person<br>via network or other remote connection.  |           |                          | IEC TR 80001-2-2:2012 | NIST SP 800-53 Rev. 4 | ISO 27002:2013   |  |
|                    | Door the douice permit remote convice connections   |           |                          |                       |                       | A 6 3 1 A 6 3 3 A 13 1 1                                     |  |

| RMOT-3   | functionality (e.g. software updates, remote training) | Yes | Software update                                     |       |                             |  |
|----------|--|-----|---|-------|-----------------------------|--|
|          | Does the device have any other remotely accessible     |     |   |       |                             |  |
| MOT-2    | connections for predictive maintenance data?           | Yes | Those report do not contain any e-PHI.              |       |                             |  |
|          | Does the device permit or use remote service           |     | The device can be configured to send daily reports. |       |                             |  |
| MOT-1.3  | device during the remote session?                      | Yes | _   | AC-17 | A.13.2.1, A.14.1.2          |  |
|          | Can patient data be accessed or viewed from the        |     |   |       | A.6.2.1, A.6.2.2, A.13.1.1, |  |
| RMOT-1.2 | session?   | Yes | _   |       |                             |  |
|          | Is there an indicator for an enabled and active remote |     |   |       |                             |  |
| RMOT-1.1 | or repair?   | Yes | _   |       |                             |  |
|          | initiative remote service sessions for device analysis |     |   |       |                             |  |
|          | Does the device allow the owner/operator to            |     |   |       |                             |  |
| MOT-1    | for device analysis or repair?                         | Yes | _   | AC-17 | A.13.2.1, A.14.1.2          |  |
|          | Does the device permit remote service connections      |     |   |       | A.6.2.1, A.6.2.2, A.13.1.1, |  |
|          | na network of other remote connection.                 |     |   |       |                             |  |

OTHER SECURITY CONSIDERATIONS (OTHR)

IEC TR 80001-2-2:2012

NIST SP 800-53 Rev. 4 ISO 27002:2013

Example note. Please keep individual notes to one cell. Please use separate notes for separate information

Notes:

Note 1



# Titre / Title\* Manufacturer Disclosure Statement for Medical Device Security

| Component Name                 | Manufacturer  | Description   | Version   |
|--------------------------------|---|---|---|
| Debian 9 "Stretch"             | Debian Community (Open Source)                          | Debian is an open source operating system (OS)  | Debian 9 "Stretch"  |
| Linux Kernel                   | (Open Source)   | Linux image base package  | 4.9.0-12  |
| Grub                           |   |   | 4.9.0-12<br>2.02~beta3-5                                  |
|                                | (Open Source)   | GRand Unified Bootloader, version 2 (PC/BIOS version)   |   |
| Cairo                          | (Open Source)   | Cairo 2D vector graphics library  | 1.14.6-1gaussian1   |
| GNU/libc                       | (Open Source)   | Embedded GNU C Library  | 2.24-11+deb9u4  |
| Glib                           | (Open Source)   | GLib library of C routines  | 2.50.3-2+deb9u1   |
| libstdC++                      | (Open Source)   | GNU Standard C++ Library v3   | 6.3.0-18+deb9u1   |
| bash                           | (Open Source)   | GNU Bourne Again SHell  | 4.4-5   |
| python                         | (Open Source)   | interactive high-level object-oriented language   | 3.5.3-1   |
| Xorg                           | Free Desktop (Open Source)                              | X.Org X Window System   | 1:7.7+19  |
| Redshift                       | Open Source   | Adjusts the color temperature of your screen  | 1.11-1  |
| Xfce                           | Xfce(Open Source)                                       | Xfce desktop environment  | 4.12.3  |
| xscreensaver                   | Open Source   | Screensaver daemon and frontend for X11   | 5.36-1  |
| PostgreSQL                     | PostgreSQL (Open Source)                                | object-relational SQL database  | 9.6+181+deb9u3  |
| Xerces                         | Apache Foundation (Open Source)                         | Xerces is a validating XML parser written in a portable subset of C++   | 3.1.4+debian-2+deb9u1                                     |
| herees                         | OFFIS (Oldenburg Research and Development Institute for | Acrees is a validating xive parser written in a portable subset of err  | 51111 0001011 21000001                                    |
| Dcmtk                          | Information Technology Tools and Systems)               | DICOM toolkit   | 3.6.5-11gaussian1   |
| dvd+rw-tools                   | Andy Polyakov (Open Source)                             | collection of open source DVD and Blu-ray Disc burning tools for Linux  | 7.1-11.1  |
| Eject                          | (Open Source)   | Eject is a utility that allows to eject CD-ROM. No documentation is provided<br>to the end user.  | 2.1.5+deb1+cvs20081104-13.2                               |
| xorriso                        | (Open Source)   | command line ISO-9660 and Rock Ridge manipulation tool  | 1.4.6-1+b1  |
| Libusb-1.0.0                   | (Open Source)   | user space USB programming library  | 2:1.0.21-1  |
| 2.0000 2.0.0                   | (open source)   | PulseAudio is a network-capable sound server program distributed via the  |   |
| PulseAudio                     | (Open Source)   | freedesktop.org project   | 10.0-1+deb9u1   |
| libcanberra0                   | (Open Source)   | simple abstract interface for playing event sounds with pulseAudio backend  | 0.30-3  |
| CUDA                           | Nvidia  | CUDA allows faster image processing and therefore it is very useful to an<br>imaging system. Provided by the Aixplorer series graphics card manufacturer<br>– Nvidia. | 430.50-1  |
| Cø                             | Nvidia  | Nvidia Cg core runtime library  | 3.1.0013-2+b1   |
| OpenCV                         | (Open Source)   | computer vision Image Processing library  | 2.4.13.7-0gaussiane2                                      |
| opener                         | (open source)   | OpenMP (Open Multi-Processing) is an application programming interface  |   |
| OpenMP                         | (Open Source)   | (API) that supports multi-platform shared memory multiprocessing  | 6.3.0-18+deb9u1   |
|                                |   | programming in C, C++   |   |
| Intel MKL                      | Intel (Open Source)                                     | Intel® Math Kernel Library (Intel® MKL)   | 2019.1.144-3~bpo9+1                                       |
| TBB (libtbb2)                  | Intel (Open Source)                                     | Intel® Threading Building Blocks (Intel® TBB) lets you easily write parallel C++<br>programs that take full advantage of multicore performance,                       | 4.3~20150611-2  |
| libdbus-c++                    | (Open Source)   | C++ API for D-Bus (runtime package)   | 0.9.0-9gaussian2  |
| opendds                        | OCI   | OpenDDS is an Open Source, native C++ implementation of the OMG (Object<br>Management Group) Data Distribution Service (DDS) for Real-Time Systems                    | 3.14.1-0gaussiane0  |
|                                |   | specification.  |   |
| pam                            | (Open Source)   | Pluggable Authentication Modules  | 1.1.8-3.6   |
|                                |   | PAM module to authenticate using a PostgreSQL database.   |   |
| libpam-pgsql                   | (Open Source)   | This module lets you authenticate users against a table in a PostgreSQL<br>database. It also supports checking account information and updating                       | 0.7.3.2-1   |
|                                |   | authentication tokens (i.e., passwords).  | 2264  |
| gconf2                         | (Open Source)   | GNOME configuration database system (shared libraries)  | 3.2.6-4gaussian1  |
| gtk2 & libgtkmm                | (Open Source)   | gtk2: Development environment for GTK toolkit for graphical user interfaces.<br>libgtkmm: C++ wrappers for GTK+ (shared libraries)                                    | gtk2: 2.24.31-1gaussian1<br>libgtkmm: 1:2.24.5-1gaussian1 |
| Maia                           | (Open Source)   | Maia vectorial canvas   | 0.3.21-0gaussiane1  |
| CUPS                           | (Open Source)   | Common UNIX Printing System(tm)   | 2.2.1-8+ deb9u6   |
| libopenjp2                     | (Open Source)   | JPEG 2000 image compression/decompression library   | 2.1.2-1.1+deb9u5  |
| charls                         | (Open Source)   | Implementation of the JPEG-LS standard  | 1.1.0+dfsg-2  |
| libsensors4                    | (Open Source)   | library to read temperature/voltage/fan sensors   | 1:3.4.0-4   |
| Thingworx-ssiclient            | PTC   | Thingworx client for SuperSonic Imagine's Aixplorers.   | 0.7.8-0gaussiane7 (for customer site environment)         |
| -                              |   |   | 0.3.10-0gaussiane1(for production environment             |
| x11vnc                         | (Open Source)   | VNC server to allow remote access to an existing X session  | 0.9.13-2+deb9u1   |
|                                |   | Sony CUPS raster filter for UP-D897, UP-990AD, UP-970AD and UP-711MD  | 1.4.1-Ogaussian6  |
| rastertosonyhs                 | Sony  |   |   |
| rastertosonyhs<br>rastertosony | Sony  | Sony CUPS raster filter for Sony UP-DR80MD, UP-D25MD, UP-991AD, UP-   | 1.4.0.2-Ogaussiane2                                       |
| rastertosony                   | Sony  | Sony CUPS raster filter for Sony UP-DR80MD, UP-D25MD, UP-991AD, UP-<br>971AD, UP-D898MD, UP-X898MD  | 1.4.0.2-0gaussiane2                                       |
| rastertosony<br>pgm2d897       | Sony<br>Sony  | Sony CUPS raster filter for Sony UP-DR80MD, UP-D25MD, UP-991AD, UP-<br>971AD, UP-D898MD, UP-X898MD<br>Sony pgm2d897 converter   | 1.4.0.2-0gaussiane2<br>0.0.3-0gaussian2                   |
| rastertosony                   | Sony  | Sony CUPS raster filter for Sony UP-DR80MD, UP-D25MD, UP-991AD, UP-<br>971AD, UP-D898MD, UP-X898MD  | 1.4.0.2-0gaussiane2                                       |