# DM4 4.1.0 MDS2 Worksheet, Part Number 138-4005, Revision A

# **Manufacturer Disclosure Statement for Medical Device Security -- MDS2**

 Zoe Medical, Incorpor: 91331 DM4
 138-4005 Rev A
 7-Feb-2022

Question ID	Question		See note
-	Manufacturer Name	Zee Medical Incorporated	See note
DOC-1		Zoe Medical, Incorporated	_
DOC-2	Device Description	Patient Monitor	_
DOC-3	Device Model	91331 DM4	_
DOC-4	Document ID	138-4005 Rev A	_
		Zoe Medical, Incorporated	
		460 Boston Street	
DOC-5	Manufacturer Contact Information	Topsfield, MA 01983	_
		Comments of a standard and talled	
	Internal and the set of a color in the action of the set of	Connects via wired or wireless	
2006	Intended use of device in network-connected	Ethernet to Spacelabs ICS G2 (a	
DOC-6	environment:	clinical information system product)	_
DOC-7	Document Release Date	7-Feb-22	_
	Coordinated Vulnerability Disclosure: Does the		
DOC 0	manufacturer have a vulnerability disclosure program	NI	
DOC-8	for this device?	No	_
DOC 0	ISAO: Is the manufacturer part of an Information	NI -	
DOC-9	Sharing and Analysis Organization?	No	_
	Diament la a maturadi au data flavo diament available		
	Diagram: Is a network or data flow diagram available		
DOC 10	that indicates connections to other system	Vos	
DOC-10	components or expected external resources?	Yes	_
DOC 11	SaMD: Is the device Software as a Medical Device (i.e.	NI	
DOC-11	software-only, no hardware)?	No N/A	_
DOC-11.1	Does the SaMD contain an operating system?	N/A	_
	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	
		N/A, or See Note	Note #
	MANAGEMENT OF PERSONALLY IDENTIFIABLE		Note#
	MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION		Note #
			Note #
	INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic		Note #
MPII-1	INFORMATION Can this device display, transmit, store, or modify		Note #
MPII-1	INFORMATION Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic	See Note	
MPII-1 MPII-2	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?	See Note	
	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  Does the device maintain personally identifiable information?  Does the device maintain personally identifiable	See Note	
MPII-2	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  Does the device maintain personally identifiable information?  Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until	See Note  See Notes  Yes	
	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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)?	See Note	
MPII-2 MPII-2.1	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 store personally identifiable	See Note  See Notes  Yes	
MPII-2	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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)?	See Note  See Notes  Yes	
MPII-2 MPII-2.1	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 store personally identifiable information persistently on internal media?	See Note  See Notes  Yes	
MPII-2.1 MPII-2.2	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 store personally identifiable information persistently on internal media?  Is personally identifiable information preserved in the	See Note  See Notes  Yes  Yes	
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MPII-2.1 MPII-2.2 MPII-2.3	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 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	See Note  See Notes  Yes  Yes  Yes	
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MPII-2.1 MPII-2.2 MPII-2.3 MPII-2.4	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 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	See Note  See Notes  Yes  Yes  Yes  Yes	
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MPII-2.1 MPII-2.2 MPII-2.3 MPII-2.4 MPII-2.5	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 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 it is stored to a long term solution?  Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?  Does the device maintain personally identifiable information when powered off, or during power	See Note  See Notes  Yes  Yes  Yes  Yes  Yes  Yes  See Notes	
MPII-2.1 MPII-2.2 MPII-2.3 MPII-2.4 MPII-2.5	INFORMATION  Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?  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 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 it is stored to a long term solution?  Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?  Does the device maintain personally identifiable	See Note  See Notes  Yes  Yes  Yes  Yes  Yes	

	Does the device allow the internal media to be	
	removed by a service technician (e.g., for separate	
MPII-2.8	destruction or customer retention)?	No
	Does the device allow personally identifiable	_
	information records be stored in a separate location	
	from the device's operating system (i.e. secondary	
	internal drive, alternate drive partition, or remote	
MPII-2.9	storage location)?	No
=.•	Does the device have mechanisms used for the	
	transmitting, importing/exporting of personally	
MPII-3	identifiable information?	Yes
1411 11 3	Does the device display personally identifiable	_
MPII-3.1	information (e.g., video display, etc.)?	Yes
WII II 3.1	mornation (e.g., video display, etc.).	_
	Does the device generate hardcopy reports or images	
MPII-3.2	containing personally identifiable information?	Yes
WII II 3.2	Does the device retrieve personally identifiable	_
	information from or record personally identifiable	
	information to removable media (e.g., removable-	
	HDD, USB memory, DVD-R/RW,CD-R/RW, tape,	
MPII-3.3	CF/SD card, memory stick, etc.)?	Yes
WII II 3.3	Does the device transmit/receive or import/export	_
	personally identifiable information via dedicated	
	cable connection (e.g., RS-232, RS-423, USB,	
MPII-3.4	FireWire, etc.)?	No
WII II 3.4	Does the device transmit/receive personally	_
	identifiable information via a wired network	
MPII-3.5	connection (e.g., RJ45, fiber optic, etc.)?	Yes
WII II 3.3	Does the device transmit/receive personally	_
	identifiable information via a wireless network	
	connection (e.g., WiFi, Bluetooth, NFC, infrared,	
MPII-3.6	cellular, etc.)?	Yes
WII II 3.0	Does the device transmit/receive personally	_
	identifiable information over an external network	
MPII-3.7	(e.g., Internet)?	No
1411 11 3.7	Does the device import personally identifiable	_
MPII-3.8	information via scanning a document?	No
11 3.0	Does the device transmit/receive personally	
MPII-3.9	identifiable information via a proprietary protocol?	Yes
0.0	Does the device use any other mechanism to	
	transmit, import or export personally identifiable	
MPII-3.10	information?	No

All PHI is encrypted at rest by storage in an internal database. PHI is in a proprietary format behind the hospital firewall and is not encrypted when on a wired Ethernet interface. PHI is encrypted (from the monitor to the access point) when on a wireless (802.11) interface.

Management of Private Data notes:

ALOF-1

ALOF-2

### AUTOMATIC LOGOFF (ALOF)

The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.

Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff, session lock, password protected screen saver)?

Is the length of inactivity time before auto-logoff/screen lock user or administrator configurable?

See Notes 4
N/A \_\_

### **AUDIT CONTROLS (AUDT)**

 ${\it The\ ability\ to\ reliably\ audit\ activity\ on\ the\ device.}$ 

7-Feb-2022

AUDT-1		Can the medical device create additional audit logs or		
AUDT-1.1 Does the audit log record a USER ID?  AUDT-1.2 Does other personally identifiable information exist in the audit trai?  AUDT-1.2 audit log:  AUDT-2.1 Successful login/logout attempts?  AUDT-2.2 Unsuccessful login/logout attempts?  AUDT-2.3 Modification of user privileges?  AUDT-2.4 Creation/modification/deletion of users?  AUDT-2.4 Creation/modification/deletion of users?  AUDT-2.5 Creation/modification/deletion of data?  Presentation of clinical or Pil data (e.g. display, print)?  AUDT-2.6 Creation/modification/deletion of data?  Import/export of data from removable media (e.g. users)  AUDT-2.7 USB drive, external hard drive, DVD)?  Receipl/transmission of data or commands over a network or point-to-point connection?  AUDT-2.8.1 Remote or on-site support?  AUDT-2.8.2 activity?  AUDT-2.8.2 activity?  AUDT-2.8.3 Serve activity?  AUDT-2.9 Emergency access?  AUDT-2.10 Other events (e.g., software updates)?  Yes  AUDT-2.10 Site audit log for an event available?  AUDT-3 activity of data trinbutes that are captured in the AUDT-4 audit log for an event available?  AUDT-4 audit log for an event travillable?  AUDT-5 Can audit log content be exported?  Ves  AUDT-5.1 Via physical media?  Via Hit Audit Trail and Node Authentication (ATNA) profile to SIEM?  Via Other communications (e.g., external service AUDT-5.3 device, mobile applications)?  AUDT-6 can audit log servicyted in transit or on storage MAUDT-7.4 rea dudit logs protected from access?  Ves  AUDT-7.4 Can audit logs protected from access?  Ves  AUDT-7.5 Can audit logs protected from access?  Ves  AUDT-7.5 Can audit logs protected from access?  Ves  AUDT-7.5 Can audit logs protected from access?  Ves  AUDT-7.4 Can audit logs protected from access?  Ves  AUDT-7.5 Can audit logs protected from access?  Ves  AUDT-7.4 Can audit logs protected from access?  Ves  AUDT-7.5 Can audit logs protected from access?  Ves  AUDT-7.5 Can audit logs protected from access?  Ves  AUDT-7.1 Are audit logs protected from access?  Ves	AUDT-1	•		
AUDT-1.2 in the audit trail? Are events recorded in an audit log? if yes, indicate which of the following events are recorded in the audit tog? AUDT-2.1 Successful login/logout attempts? AUDT-2.2 Unsuccessful login/logout attempts? AUDT-2.3 Modification of user privileges? AUDT-2.4 Creation/modification/deletion of users? Presentation of clinical or PII data (e.g. display, print)? AUDT-2.5 print)? AUDT-2.6 Creation/modification/deletion of data? AUDT-2.7 (readion/modification/deletion of data? AUDT-2.8 (u.g. display) AUDT-2.9 (u.g. display) AUDT-2.8.1 Remote or on-site support? AUDT-2.8.2 activity? AUDT-2.9 Emergency access? AUDT-2.10 Other events (e.g., software updates)? AUDT-2.11 is the audit capability documented in more detail? AUDT-3.1 Sold attainfuse that are captured in the audit log? Is a list of data attributes that are captured in the AUDT-4. AUDT-4.1 Does the audit log record date/time? AUDT-4.1 Does the audit log record date/time? AUDT-5.1 Via physical media? AUDT-5.1 Via physical media? AUDT-5.2 Can audit log so content of experted? AUDT-5.3 device, mobile applications)? AC and audit logs encryted in transit or on storage AUDT-5.4 media? AUDT-6.4 can audit logs protected from access? AUDT-7.5 Are audit logs protected from modification? AUDT-7.4 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from modification? AUDT-7.4 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from modification? AUDT-7.4 Are audit logs protected from access? AUDT-7.5 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from access? AUDT-7.5 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from access? AUDT-7.4 Are audit logs protected from access? AUDT-7.5 Are				_
AUDT-1.2 in the audit trail? Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the AuDT-2 audit log: AUDT-2. audit log: AUDT-2. Unsuccessful login/logout attempts? AUDT-2. Unsuccessful login/logout attempts? AUDT-2. Unsuccessful login/logout attempts? AUDT-2. Cereation/modification/deletion of users? AUDT-2. Presentation of clinical or PII data (e.g. display, print)? AUDT-2. Cereation/modification/deletion of data? Import/export of data from removable media (e.g. display, print)? AUDT-2. USB drive, external hard drive, DVD)? Receipt/transmission of data or commands over a network or point-to-point connection? AUDT-2. Remote or on-site support: AUDT-2. Application Programming Interface (API) and similar AUDT-2. activity? AUDT-2. Emergency access? AUDT-2. Se mergency access? AUDT-2. Site and the audit log? AUDT-2. Site and tare audit log content le moure detail? Can the owner/operator define or select which events are recorded in the audit log? AUDT-3 audit log for an event available? AUDT-4. Does the audit log record adet/time? AUDT-5. Can audit log content be exported? AUDT-5. Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM? AUDT-5. Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM? AUDT-5. Can audit log content the source? AUDT-5. Are audit logs encryted in the audit and are audit log encyted in trails or on storage AUDT-5. Can audit log content the source? AUDT-5. Via Objecial media? Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM? ACCENTAGE ACC		•		_
Audur-2.2 audit log: AuDr-1-2 audit log: AuDr-2.2 login/logout attempts? AuDr-2.2 login/logout attempts? AuDr-2.3 Modification of user privileges? AuDr-2.4 Creation/modification/deletion of users? AuDr-2.5 print)? AuDr-2.5 print)? AuDr-2.6 (Creation/modification/deletion of data? Import/export of data from removable media (e.g., user) Receipt/transmission of data or commands over a network or point-to-point connection? AuDr-2.8 network or point-to-point connection? AuDr-2.8 remergency access? AuDr-2.9 Emergency access? AuDr-2.1 is the audit capability documented in more detail? AuDr-2.1 is the audit capability documented in more detail? AuDr-2.1 poss the audit log record date/fime? AuDr-4.1 Potocol (NTP) or equivalent time source? AuDr-4.1.1 Protocol (NTP) or equivalent time source? AuDr-5.3 device, mobile applications)? AuDr-5.3 device, mobile applications)? AuDr-5.4 media? AuDr-5.4 media? AuDr-6.4 can audit logs protected from modification? AuDr-7.4 are audit logs portected from modification? AuDr-7.4 Are audit logs protected from modification? AuDr-7.5 Are audit logs protected from modification? AuDr-7.5 Are audit logs protected from modification? AuDr-7.4 Are audit logs protected from modification? AuDr-7.5 Are audit logs protected from acces? AuDr-7.6 Are audit logs p	AUDT-1.2	· · · · · · · · · · · · · · · · · · ·	No	
Which of the following events are recorded in the AUDT-2   audit log:				
AUDT-2.1 Successful login/logout attempts?		<u> </u>		
AUDT-2.2 Unsuccessful login/logout attempts? N/A AUDT-2.3 Modification of user privileges? Yes	AUDT-2	audit log:	Yes	
AUDT-2.3 Modification of user privileges? Yes	AUDT-2.1	Successful login/logout attempts?	See Notes	9
AUDT-2.4         Creation/modification/deletion of users?         N/A         —           AUDT-2.5         print)?         Yes         —           AUDT-2.6         Creation/modification/deletion of data?         Yes         —           AUDT-2.7         USB drive, external hard drive, DVD)?         Yes         —           AUDT-2.8         network or point-to-point connection?         Yes         —           AUDT-2.8.1         Remote or on-site support?         Yes         —           AUDT-2.8.2         activity?         N/A         —           AUDT-2.9.0         Emergency access?         Yes         —           AUDT-2.10         Other events (e.g., software updates)?         Yes         —           AUDT-2.10         Other events (e.g., software updates)?         Yes         —           AUDT-2.10         Other events (e.g., software updates)?         Yes         —           AUDT-2.10         Is the audit capability documented in more detail?         Yes         —           AUDT-3.1         Is the audit orapbility documented in the more detail?         Yes         —           AUDT-4.1         Does the sudit log record date/time?         Yes         —           AUDT-4.1         Does the sudit log record date/time?         Yes         — <td>AUDT-2.2</td> <td>Unsuccessful login/logout attempts?</td> <td>N/A</td> <td>_</td>	AUDT-2.2	Unsuccessful login/logout attempts?	N/A	_
AUDT-2.4         Creation/modification/deletion of users?         N/A         —           AUDT-2.5         print)?         Yes         —           AUDT-2.6         Creation/modification/deletion of data?         Yes         —           AUDT-2.7         USB drive, external hard drive, DVD)?         Yes         —           AUDT-2.8         network or point-to-point connection?         Yes         —           AUDT-2.8.1         Remote or on-site support?         Yes         —           AUDT-2.8.2         activity?         N/A         —           AUDT-2.9.0         Emergency access?         Yes         —           AUDT-2.10         Other events (e.g., software updates)?         Yes         —           AUDT-2.10         Other events (e.g., software updates)?         Yes         —           AUDT-2.10         Other events (e.g., software updates)?         Yes         —           AUDT-2.10         Is the audit capability documented in more detail?         Yes         —           AUDT-3.1         Is the audit orapbility documented in the more detail?         Yes         —           AUDT-4.1         Does the sudit log record date/time?         Yes         —           AUDT-4.1         Does the sudit log record date/time?         Yes         — <td>AUDT-2.3</td> <td>Modification of user privileges?</td> <td>Yes</td> <td>_</td>	AUDT-2.3	Modification of user privileges?	Yes	_
AUDT-2.5 print)? AUDT-2.6 Creation/modification/deletion of data? Import/export of data from removable media (e.g. AUDT-2.7 USB drive, external hard drive, DVD)? Receipt/transmission of data or commands over a network or point-to-point connection? AUDT-2.8.1 network or point-to-point connection? AUDT-2.8.1 Remote or on-site support? Application Programming Interface (API) and similar AUDT-2.8.2 activity? AUDT-2.9.1 Emergency access? AUDT-2.1 (Is the audit capability documented in more detail)? Can the owner/operator define or select which ever recorded in the audit log? AUDT-2.1 (Is the audit capability documented in more detail)? AUDT-3.1 (Is the audit capability documented in more detail)? AUDT-4.1 (Is the audit capability documented in the audit log? AUDT-4.1 (Is a dat attributes that are captured in the AUDT-4.1 (Is a dattributes that are captured in the AUDT-4.1 (Is a dattributes that are captured in the AUDT-4.1 (Is a dattributes that are captured in the AUDT-4.1 (Is a dattributes that are captured in the AUDT-4.1 (Is a dattributes that are captured in the AUDT-5.1 (Is a dattributes that are captured in the AUDT-5.1 (Is a dattributes that are captured in the AUDT-6.1 (Is a dattributes that are captured in the AUDT-6.1 (Is a dattributes that are captured in the AUDT-6.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that are captured in the AUDT-7.1 (Is a dattributes that	AUDT-2.4		N/A	
AUDT-2.6   Creation/modification/deletion of data?   Yes		Presentation of clinical or PII data (e.g. display,		_
Import/export of data from removable media (e.g.   AUDT-2.7   USB drive, external hard drive, DVD)?   Yes	AUDT-2.5	print)?	Yes	_
AUDT-2.7   USB drive, external hard drive, DVD)? Yes	AUDT-2.6	Creation/modification/deletion of data?	Yes	_
Receipt/transmission of data or commands over a AUDT-2.8.1 network or point-to-point connection? AUDT-2.8.1 Remote or on-site support? Application Programming Interface (API) and similar AUDT-2.8.2 activity? AUDT-2.9. Emergency access? AUDT-2.0 Other events (e.g., software updates)? AUDT-2.11 Is the audit capability documented in more detail? Can the owner/operator define or select which AUDT-3.11 events are recorded in the audit log? Is a list of data attributes that are captured in the AUDT-4.1 Does the audit log for an event available? AUDT-4.1.1 Does the audit log record date/time? AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5. Can audit log content be exported? AUDT-5. Can audit log content be exported? AUDT-5. Via physical media? AUDT-5. Via physical media? AUDT-5. Via profile to SIEM? AUDT-5. Are audit logs encryted in transit or on storage AUDT-5. Are audit logs be monitored/reviewed by AUDT-6. Owner/operator? AUDT-7. Are audit logs be protected from modification? AUDT-7. Are audit logs protected from modification? AUDT-7. Are audit logs protected from modification? AUDT-7. Are audit logs protected from access?  Yes		Import/export of data from removable media (e.g.		
AUDT-2.8 network or point-to-point connection? AUDT-2.8.1 Remote or on-site support? Application Programming Interface (API) and similar AUDT-2.8.2 activity? AUDT-2.9 Emergency access? AUDT-2.10 Other events (e.g., software updates)? AUDT-2.11 is the audit capability documented in more detail? Can the owner/operator define or select which AUDT-3.11 is a list of data attributes that are captured in the audit log? Is a list of data attributes that are captured in the audit log for an event available? AUDT-4.1 Does the audit log record date/time? Can date and time be synchronized by Network Time AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5.1 Via physical media? AUDT-5.1 Via physical media? AUDT-5.2 profile to SIEM? AUDT-5.3 Are audit logs encryted in transit or on storage AUDT-6.4 media? AUDT-6.4 media? AUDT-6.5 Can audit logs be monitored/reviewed by AUDT-7.1 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from access?  Yes	AUDT-2.7	USB drive, external hard drive, DVD)?	Yes	_
AUDT-2.8.1 Remote or on-site support? Application Programming Interface (API) and similar AUDT-2.8.2 activity? AUDT-2.9 Emergency access? AUDT-2.10 Other events (e.g., software updates)? AUDT-2.11 Is the audit capability documented in more detail? Can the owner/operator define or select which AUDT-3. events are recorded in the audit log? Is a list of data attributes that are captured in the AUDT-4.1 Does the audit log record date/time? Can date and time be synchronized by Network Time AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5.1 Via physical media? Via IHE Audit Trail and Node Authentication (ATNA) AUDT-5.2 profile to SIEM? Via Other communications (e.g., external service AUDT-5.3 device, mobile applications)? AUDT-6. Can audit logs encrypted in transit or on storage AUDT-6. Owner/operator? AUDT-6. Owner/operator? AUDT-6. Owner/operator? AUDT-7.1 Are audit logs protected from modification? AVES AUDT-7.1 Are audit logs protected from access?  Yes		Receipt/transmission of data or commands over a		
Application Programming Interface (API) and similar AUDT-2.8.2 activity?	AUDT-2.8	network or point-to-point connection?	Yes	_
AUDT-2.8.2 activity?	AUDT-2.8.1	Remote or on-site support?	Yes	_
AUDT-2.9 Emergency access? Yes		Application Programming Interface (API) and similar		
AUDT-2.10 Other events (e.g., software updates)? AUDT-2.11 Is the audit capability documented in more detail? Can the owner/operator define or select which  AUDT-3 events are recorded in the audit log? Is a list of data attributes that are captured in the AUDT-4 audit log for an event available? AUDT-4.1 Does the audit log record date/time? Can date and time be synchronized by Network Time AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5.1 Via physical media?  Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM?  AUDT-5.2 Via Other communications (e.g., external service device, mobile applications)?  AUDT-5.4 media?  AUDT-5.4 media?  AUDT-6 owner/operator?  AUDT-7.1 Are audit logs protected from modification?  Yes	AUDT-2.8.2	activity?	N/A	_
AUDT-2.11 Is the audit capability documented in more detail? Can the owner/operator define or select which  AUDT-3 events are recorded in the audit log? Is a list of data attributes that are captured in the  AUDT-4 audit log for an event available? AUDT-4.1 Does the audit log record date/time? Can date and time be synchronized by Network Time  AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5.1 Via physical media? Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM? AUDT-5.3 device, mobile applications)? APER AUDT-5.4 media? AUDT-5.4 media? AUDT-5.4 media? AUDT-6 owner/operator? AUDT-7.1 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from access?  Yes   'Ves  'Can Audit logs protected from access?  Yes	AUDT-2.9	Emergency access?	Yes	_
Can the owner/operator define or select which AUDT-3 events are recorded in the audit log? Is a list of data attributes that are captured in the AUDT-4 AUDT-4.1 Does the audit log for an event available? AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5 Can audit log content be exported? AUDT-5.1 Via physical media? Via hysical media? AUDT-5.2 Profile to SIEM? AUDT-5.3 device, mobile applications)? AUDT-5.4 AUDT-5.4 MEDT-5.4 AUDT-6 Owner/operator? AUDT-7 Are audit logs protected from modification? AUDT-7 Are audit logs protected from modification? AUDT-7 Are audit logs protected from modification? Yes  Ves  AUDT-7.1 Are audit logs protected from access? Ves  Ves  AUDT-7.1  No  Are audit logs protected from access? Ves  AUDT-7.1	AUDT-2.10	Other events (e.g., software updates)?	Yes	_
AUDT-3 events are recorded in the audit log? Is a list of data attributes that are captured in the  AUDT-4 audit log for an event available? AUDT-4.1 Does the audit log record date/time? Can date and time be synctronized by Network Time  AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5 Can audit log content be exported? AUDT-5.1 Via physical media? Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM? Via Other communications (e.g., external service  AUDT-5.3 device, mobile applications)? APENDT-5.4 media? Can audit logs be monitored/reviewed by  AUDT-6 owner/operator? AUDT-7 Are audit logs protected from modification? AUDT-7 Are audit logs protected from modification? Yes  Vos  Language  No  No  Language  Language  No  Language  Language  Language  Language  Language  Language  Language  No  Language	AUDT-2.11	Is the audit capability documented in more detail?	Yes	_
Is a list of data attributes that are captured in the  AUDT-4  AUDT-4.1  Does the audit log record date/time? Can date and time be synchronized by Network Time  AUDT-4.1.1  Protocol (NTP) or equivalent time source?  Can audit log content be exported?  AUDT-5.1  Via physical media?  Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2  Profile to SIEM?  Via Other communications (e.g., external service  AUDT-5.3  Are audit logs encrypted in transit or on storage  AUDT-5.4  MODT-6  AUDT-6  AUDT-7  Are audit logs protected from modification?  AUDT-7  Are audit logs protected from modification?  Yes  Yes  —  AUDT-7.1  Are audit logs protected from access?  Yes  Yes  —  Yes  —  AUDT-7.1  Are audit logs protected from access?  Yes  Yes  —  Yes  —  AUDT-7.1  Are audit logs protected from access?  Yes		Can the owner/operator define or select which		
AUDT-4.1 Does the audit log record date/time? Can date and time be synchronized by Network Time  AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5 Can audit log content be exported? AUDT-5.1 Via physical media? AUDT-5.2 Profile to SIEM? AUDT-5.3 device, mobile applications)? AUDT-5.4 media? AUDT-5.4 media? AUDT-6 owner/operator? AUDT-6 owner/operator? AUDT-7 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from access?  No  See Notes  10  Yes	AUDT-3	events are recorded in the audit log?	No	
AUDT-4.1 Does the audit log record date/time? Can date and time be synchronized by Network Time  AUDT-4.1.1 Protocol (NTP) or equivalent time source? AUDT-5 Can audit log content be exported? AUDT-5.1 Via physical media? Via IHE Audit Trail and Node Authentication (ATNA) AUDT-5.2 profile to SIEM? Via Other communications (e.g., external service AUDT-5.3 device, mobile applications)? APER AUDT-5.4 media? AUDT-6 can audit logs be monitored/reviewed by Owner/operator? AUDT-7 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from access?  Yes  Yes  Can dudit logs protected from access?  Yes  Can audit logs protected from access?  Yes  Can audit logs protected from access?  Yes  Can audit logs protected from access?		Is a list of data attributes that are captured in the		
Can date and time be synchronized by Network Time  AUDT-4.1.1 Protocol (NTP) or equivalent time source? See Notes 10  AUDT-5 Can audit log content be exported? Yes  AUDT-5.1 Via physical media? Yes  Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM? No  Via Other communications (e.g., external service  AUDT-5.3 device, mobile applications)? No  Are audit logs encrypted in transit or on storage  AUDT-5.4 media? Yes  Can audit logs be monitored/reviewed by owner/operator? No  AUDT-6 owner/operator? No  AUDT-7 Are audit logs protected from modification? Yes  AUDT-7.1 Are audit logs protected from access? Yes	AUDT-4	audit log for an event available?	No	_
AUDT-4.1.1 Protocol (NTP) or equivalent time source? See Notes 10  AUDT-5 Can audit log content be exported? Yes AUDT-5.1 Via physical media? Yes Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM? No Via Other communications (e.g., external service  AUDT-5.3 device, mobile applications)? No Are audit logs encrypted in transit or on storage  AUDT-5.4 media? Yes Can audit logs be monitored/reviewed by AUDT-6 owner/operator? No  AUDT-7 Are audit logs protected from modification? Yes AUDT-7.1 Are audit logs protected from access? Yes	AUDT-4.1	Does the audit log record date/time?	Yes	_
AUDT-5 Can audit log content be exported?  AUDT-5.1 Via physical media? Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM? Via Other communications (e.g., external service  AUDT-5.3 device, mobile applications)? Are audit logs encrypted in transit or on storage  AUDT-5.4 media? Can audit logs be monitored/reviewed by  Owner/operator?  AUDT-6 AUDT-7 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from access?  Yes		Can date and time be synchronized by Network Time		
AUDT-5.1 Via physical media?  Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM?  Via Other communications (e.g., external service  AUDT-5.3 device, mobile applications)?  Are audit logs encrypted in transit or on storage  AUDT-5.4 media?  Can audit logs be monitored/reviewed by  AUDT-6 owner/operator?  AUDT-7 Are audit logs protected from modification?  AUDT-7.1 Are audit logs protected from access?  Yes   Yes   AUDT-7.1  Yes  AUDT-7.1  Yes  AUDT-7.1  AUDT-8 Via physical media?  Yes  —————————————————————————————————	AUDT-4.1.1	Protocol (NTP) or equivalent time source?	See Notes	10
Via IHE Audit Trail and Node Authentication (ATNA)  AUDT-5.2 profile to SIEM?  Via Other communications (e.g., external service  AUDT-5.3 device, mobile applications)?  Are audit logs encrypted in transit or on storage  AUDT-5.4 media?  Can audit logs be monitored/reviewed by  AUDT-6 owner/operator?  AUDT-7 Are audit logs protected from modification?  AUDT-7.1 Are audit logs protected from access?  Vo  No  ——————————————————————————————	AUDT-5	Can audit log content be exported?	Yes	_
AUDT-5.2 profile to SIEM? Via Other communications (e.g., external service AUDT-5.3 device, mobile applications)? Are audit logs encrypted in transit or on storage AUDT-5.4 media? Can audit logs be monitored/reviewed by AUDT-6 owner/operator? AUDT-7 Are audit logs protected from modification? AUDT-7.1 Are audit logs protected from access?  No	AUDT-5.1	Via physical media?	Yes	_
Via Other communications (e.g., external service AUDT-5.3 device, mobile applications)?  Are audit logs encrypted in transit or on storage AUDT-5.4 media?  Can audit logs be monitored/reviewed by AUDT-6 owner/operator?  AUDT-7 Are audit logs protected from modification?  AUDT-7.1 Are audit logs protected from access?  Voo		Via IHE Audit Trail and Node Authentication (ATNA)		
AUDT-5.3 device, mobile applications)?  Are audit logs encrypted in transit or on storage  AUDT-5.4 media?  Can audit logs be monitored/reviewed by  AUDT-6 owner/operator?  AUDT-7 Are audit logs protected from modification?  AUDT-7.1 Are audit logs protected from access?  No	AUDT-5.2		No	_
Are audit logs encrypted in transit or on storage AUDT-5.4 media?  Can audit logs be monitored/reviewed by AUDT-6 owner/operator?  AUDT-7 Are audit logs protected from modification?  AUDT-7.1 Are audit logs protected from access?  Yes		Via Other communications (e.g., external service		
AUDT-5.4 media?  Can audit logs be monitored/reviewed by AUDT-6 owner/operator?  AUDT-7 Are audit logs protected from modification?  AUDT-7.1 Are audit logs protected from access?  Yes	AUDT-5.3		No	_
Can audit logs be monitored/reviewed by AUDT-6 owner/operator? No		Are audit logs encrypted in transit or on storage		
AUDT-6 owner/operator? No	AUDT-5.4		Yes	_
AUDT-7 Are audit logs protected from modification?  Are audit logs protected from access?  Yes  Yes				
AUDT-7.1 Are audit logs protected from access? Yes				_
		= :		_
AUDT-8 Can audit logs be analyzed by the device? No		• .		
	AUDT-8	Can audit logs be analyzed by the device?	No	_

## **AUTHORIZATION (AUTH)**

The ability of the device to determine the authorization of users.

AUTH-1 mechanism? Can the device be configured to use federated credentials management of users for authorization  AUTH-1.1 (e.g., LDAP, OAuth)? Can the customer push group policies to the device  AUTH-1.2 (e.g., Active Directory)? Are any special groups, organizational units, or group  AUTH-1.3 policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		Does the device prevent access to unauthorized users		
Can the device be configured to use federated credentials management of users for authorization  AUTH-1.1 (e.g., LDAP, OAuth)? No		through user login requirements or other		
credentials management of users for authorization  AUTH-1.1 (e.g., LDAP, OAuth)? No	AUTH-1	mechanism?	See Notes	4
AUTH-1.1 (e.g., LDAP, OAuth)? Can the customer push group policies to the device  AUTH-1.2 (e.g., Active Directory)? Are any special groups, organizational units, or group  AUTH-1.3 policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		Can the device be configured to use federated		
Can the customer push group policies to the device  AUTH-1.2 (e.g., Active Directory)? Are any special groups, organizational units, or group  AUTH-1.3 policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		credentials management of users for authorization		
AUTH-1.2 (e.g., Active Directory)? Are any special groups, organizational units, or group  AUTH-1.3 policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access	AUTH-1.1	(e.g., LDAP, OAuth)?	No	_
Are any special groups, organizational units, or group  AUTH-1.3  policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2  etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		Can the customer push group policies to the device		
AUTH-1.3 policies required? Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access	AUTH-1.2	(e.g., Active Directory)?	No	_
Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service,  AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		Are any special groups, organizational units, or group		
on 'role' (e.g., user, administrator, and/or service, AUTH-2 etc.)? Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access	AUTH-1.3	policies required?	No	_
AUTH-2 etc.)? See Notes 7  Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		Can users be assigned different privilege levels based		
Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access		on 'role' (e.g., user, administrator, and/or service,		
unrestricted administrative privileges (e.g., access	AUTH-2	etc.)?	See Notes	7
		Can the device owner/operator grant themselves		
an austing austing out and liesting via least and a		unrestricted administrative privileges (e.g., access		
operating system or application via local root or		operating system or application via local root or		
AUTH-3 administrator account)? No	AUTH-3	administrator account)?	No	_
Does the device authorize or control all API access		Does the device authorize or control all API access		
AUTH-4 requests? N/A	AUTH-4	requests?	N/A	_

 Zoe Medical, Incorport 91331 DM4
 138-4005 Rev A
 7-Feb-2022

Does the device run in a restricted access mode, or AUTH-5 'kiosk mode', by default?

Yes		

### CYBER SECURITY PRODUCT UPGRADES (CSUP)

The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.

	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.	See Notes 8
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSUP-2.1	software updates?	No
	Does the device require vendor or vendor-authorized	
CSUP-2.2	service to install patches or software updates?	Yes
	Does the device have the capability to receive remote	
CSUP-2.3	installation of patches or software updates?	No
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-2.4	manufacturer?	No
	Does the device contain Drivers and Firmware? If yes,	
CSUP-3	complete 3.1-3.4.	Yes
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSUP-3.1	software updates?	No
	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?	No
	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	No.
CSUP-3.4	manufacturer?	No
CCLID 4	Does the device contain Anti-Malware Software? If	Voc
CSUP-4	yes, complete 4.1-4.4.  Does the device documentation provide instructions	Yes
	for owner/operator installation of patches or	
CSUP-4.1	software updates?	No
C30F-4.1	software updates:	
	Does the device require vendor or vendor-authorized	
CSUP-4.2	service to install patches or software updates?	Yes
		_
	Does the device have the capability to receive remote	
CSUP-4.3	installation of patches or software updates?	No
	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?	No
	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	
CSUP-5.1	software updates?	No
	Does the device require vendor or vendor-authorized	
CSUP-5.2	service to install patches or software updates?	Yes

7-Feb-2022

	Does the device have the capability to receive remote	
CSUP-5.3	installation of patches or software updates?	No
C30F-3.3	Does the medical device manufacturer allow security	
	updates from any third-party manufacturers (e.g.,	
	Microsoft) to be installed without approval from the	
CSUP-5.4	manufacturer?	No
C301 3.4	Does the device contain other software components	
	(e.g., asset management software, license	
	management)? If yes, please provide details or	
CSUP-6	refernce in notes and complete 6.1-6.4.	No
	Does the device documentation provide instructions	
	for owner/operator installation of patches or	
CSUP-6.1	software 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	2
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.,	
	Microsoft) to be installed without approval from the	
CSUP-6.4	manufacturer?	N/A
	Does the manufacturer notify the customer when	
CSUP-7	updates are approved for installation?	Yes
	Does the device perform automatic installation of	
CSUP-8	software updates?	No
	Door the manufactures have an empressed that of the said	
CCLID O	Does the manufacturer have an approved list of third	
CSUP-9	party software that can be installed on the device?  Can the owner/operator install manufacturer-	No
	approved third-party software on the device	
CCLID 10	themselves?	No
CSUP-10	Does the system have mechanism in place to prevent	
CSUP-10.1	installation of unapproved software?	Yes
C30F-10.1	Does the manufacturer have a process in place to	163
CSUP-11	assess device vulnerabilities and updates?	No
C301 11	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
C301 11.2	is the call aparte review eyele for the device:	. 03

# **HEALTH DATA DE-IDENTIFICATION (DIDT)** *The ability of the device to directly remove*

information that allows identification of a person.

Does the device provide an integral capability to deidentify personally identifiable information?

Does the device support de-identification profiles that comply with the DICOM standard for deDIDT-1.1 identification?

N/A

Yes	_
N/A	_

# DATA BACKUP AND DISASTER RECOVERY (DTBK)

The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.

Does the device maintain long term primary storage of personally identifiable information / patient

DTBK-1 information (e.g. PACS)?
Does the device have a "factory reset" function to restore the original device settings as provided by the DTBK-2 manufacturer?
Does the device have an integral data backup

DTBK-3 capability to removable media?

	No	_
9		
	Yes	_
	Yes	_

Zoe Medical, Incorpor	; 91331 DM4	138-4005 Rev A		7-Feb-2022
DTBK-4	Does the device have an integral data backup capability to remote storage?  Does the device have a backup capability for system	No		
DTBK-5	configuration information, patch restoration, and software restoration?  Does the device provide the capability to check the	Yes		
DTBK-6	integrity and authenticity of a backup?	Yes	_	
	EMERGENCY ACCESS (EMRG)			
	The ability of the device user to access personally			
	identifiable information in case of a medical emergency situation that requires immediate access to stored personally identifiable information.			
EMRG-1	Does the device incorporate an emergency access (i.e. "break-glass") feature?	Yes		
EWING 1	(incl. steam glass / teataire)	,	_	
	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)			
	How the device ensures that the stored data on the device has not been altered or destroyed in a non-authorized manner and is from the originator.			
	Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or			
IGAU-1	digital signature)?  Does the device provide error/failure protection and	Yes	_	
IGAU-2	recovery mechanisms for stored health data (e.g., RAID-5)?	Yes		
1040-2	7/10 3):	163	_	
	MALWARE DETECTION/PROTECTION (MLDP) The ability of the device to effectively prevent, detect and remove malicious software (malware).			
MLDP-1	Is the device capable of hosting executable software? Does the device support the use of anti-malware software (or other anti-malware mechanism)?	Yes	_	
MLDP-2	Provide details or reference in notes.  Does the device include anti-malware software by	See Notes	5	
MLDP-2.1	default?  Does the device have anti-malware software	Yes	_	
MLDP-2.2	available as an option?  Does the device documentation allow the	No	_	
MIDD 2.2	owner/operator to install or update anti-malware software?	No		
MLDP-2.3	Can the device owner/operator independently (re-	No	_	
MLDP-2.4	)configure anti-malware settings?  Does notification of malware detection occur in the	No	_	
MLDP-2.5	device user interface? Can only manufacturer-authorized persons repair	No		
MLDP-2.6 MLDP-2.7	systems when malware has been detected? Are malware notifications written to a log?	Yes Yes		
WILDF-2.7	Are there any restrictions on anti-malware (e.g.,	165		
MLDP-2.8	purchase, installation, configuration, scheduling)? If the answer to MLDP-2 is NO, and anti-malware	Yes		
MLDP-3	cannot be installed on the device, are other compensating controls in place or available?  Does the device employ application whitelisting that	N/A	_	
MLDP-4	restricts the software and services that are permitted to be run on the device?	No	_	
MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	No		
MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	No		
	Can a host-based intrusion detection/prevention		_	
MLDP-5.2	system be installed by the customer?	No	_	

7-Feb-2022 Zoe Medical, Incorpora 91331 DM4 138-4005 Rev A

#### **NODE AUTHENTICATION (NAUT)** The ability of the device to authenticate communication partners/nodes. 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)? Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use NAUT-2 a network connection white list)? Yes Is the firewall ruleset documented and available for NAUT-2.1 review? No Does the device use certificate-based network NAUT-3 connection authentication? No **CONNECTIVITY CAPABILITIES (CONN)** 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. Does the device have hardware connectivity CONN-1 capabilities? Yes CONN-1.1 Does the device support wireless connections? Yes CONN-1.1.1 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 Does the device support physical connections? CONN-1.2 Yes CONN-1.2.1 Does the device have available RJ45 Ethernet ports? Yes Does the device have available USB ports? CONN-1.2.2 Yes Does the device require, use, or support removable CONN-1.2.3 memory devices? Yes Does the device support other physical connectivity? Yes CONN-1.2.4 Does the manufacturer provide a list of network ports and protocols that are used or may be used on CONN-2 the device? Yes Can the device communicate with other systems CONN-3 within the customer environment? See Notes Can the device communicate with other systems external to the customer environment (e.g., a service CONN-4 host)? No Does the device make or receive API calls? CONN-5 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 CONN-7.1 Is TLS configurable? No Does the device provide operator control functionality from a separate device (e.g., CONN-8 telemedicine)? No PERSON AUTHENTICATION (PAUT) The ability to configure the device to authenticate Does the device support and enforce unique IDs and passwords for all users and roles (including service PAUT-1

See Notes

accounts)?

91331 DM4 138-4005 Rev A 7-Feb-2022

Zoe Medical, Incor	<sub>Por;</sub> 91331 DM4	138-4005 Rev A		7-Feb-2022
	Does the device enforce authentication of unique IDs			
	and passwords for all users and roles (including			
PAUT-1.1	service accounts)?	N/A	_	
	Is the device configurable to authenticate users			
	through an external authentication service (e.g., MS			
PAUT-2	Active Directory, NDS, LDAP, OAuth, etc.)?	N/A	_	
	Is the device configurable to lock out a user after a			
PAUT-3	certain number of unsuccessful logon attempts?	N/A	_	
	Are all default accounts (e.g., technician service			
	accounts, administrator accounts) listed in the			
PAUT-4	documentation?	Yes	_	
PAUT-5	Can all passwords be changed?	See Notes	6	
	Is the device configurable to enforce creation of user			
	account passwords that meet established			
PAUT-6	(organization specific) complexity rules?	Yes	_	
	Does the device support account passwords that			
PAUT-7	expire periodically?	No	_	
PAUT-8	Does the device support multi-factor authentication?		_	
PAUT-9	Does the device support single sign-on (SSO)?	N/A	_	
DALIT 40		21/2		
PAUT-10	Can user accounts be disabled/locked on the device?	•	_	
PAUT-11	Does the device support biometric controls?	No	_	
DAUT 12	Does the device support physical tokens (e.g. badge	Ne		
PAUT-12	access)?	No	_	
PAUT-13	Does the device support group authentication (e.g. hospital teams)?	No		
PAU1-13	Does the application or device store or manage	110	_	
PAUT-14	authentication credentials?	No		
PAUT-14.1	Are credentials stored using a secure method?	N/A	_	
FA01-14.1	Are creatinals stored using a secure method:	N/A	_	
	PHYSICAL LOCKS (PLOK)			
	· ·			
	PHYSICAL LOCKS (PLOK)  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 Are all device components maintaining personally identifiable information (other than removable media) physically secure (i.e., cannot remove without PLOK-2 tools)? Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually PLOK-3 keyed locking device? Does the device have an option for the customer to attach a physical lock to restrict access to removable PLOK-4 No

### ROADMAP FOR THIRD PARTY COMPONENTS IN **DEVICE LIFE CYCLE (RDMP)**

Manufacturer's plans for security support of thirdparty components within the device's life cycle. Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development? Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices? Does the manufacturer maintain a web page or other source of information on software support dates and updates? Does the manufacturer have a plan for managing

third-party component end-of-life?

RDMP-1

RDMP-2

RDMP-3

RDMP-4

Yes Yes Zoe Medical, Incorpor; 91331 DM4 138-4005 Rev A 7-Feb-2022

#### 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 RDMP section. SBOM-1 Is the SBoM for this product available? Yes Does the SBoM follow a standard or common SBOM-2 method in describing software components? Yes SBOM-2.1 Are the software components identified? Are the developers/manufacturers of the software SBOM-2.2 components identified? Yes Are the major version numbers of the software SBOM-2.3 components identified? Yes SBOM-2.4 Are any additional descriptive elements identified? Does the device include a command or process method available to generate a list of software SBOM-3 components installed on the device? Yes SBOM-4 Is there an update process for the SBoM? Yes SYSTEM AND APPLICATION HARDENING (SAHD) The device's inherent resistance to cyber attacks and malware. Is the device hardened in accordance with any SAHD-1 industry standards? No Has the device received any cybersecurity SAHD-2 certifications? No Does the device employ any mechanisms for SAHD-3 software integrity checking Yes Does the device employ any mechanism (e.g., releasespecific hash key, checksums, digital signature, etc.) to ensure the installed software is manufacturer-SAHD-3.1 authorized? Does the device employ any mechanism (e.g., releasespecific hash key, checksums, digital signature, etc.) to ensure the software updates are the manufacturer-SAHD-3.2 authorized updates? No Can the owner/operator perform software integrity checks (i.e., verify that the system has not been SAHD-4 modified or tampered with)? No Is the system configurable to allow the implementation of file-level, patient level, or other SAHD-5 types of access controls? No SAHD-5.1 Does the device provide role-based access controls? Are any system or user accounts restricted or SAHD-6 disabled by the manufacturer at system delivery? No Are any system or user accounts configurable by the SAHD-6.1 end user after initial configuration? No Does this include restricting certain system or user accounts, such as service technicians, to least SAHD-6.2 privileged access? N/A Are all shared resources (e.g., file shares) which are not required for the intended use of the device SAHD-7 disabled? Are all communication ports and protocols that are not required for the intended use of the device SAHD-8 disabled? Yes Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device SAHD-9 deleted/disabled? Are all applications (COTS applications as well as OSincluded applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of the

Yes

SAHD-10

device deleted/disabled?

	Can the device prohibit boot from uncontrolled or	
	removable media (i.e., a source other than an	
SAHD-11	internal drive or memory component)?	Yes
	Can unauthorized software or hardware be installed	
SAHD-12	on the device without the use of physical tools?	No
DAIID-12	on the device without the use of physical tools:	_
	Does the product documentation include information	
SAHD-13	on operational network security scanning by users?	No
	Can the device be hardened beyond the default	
SAHD-14	provided state?	No
	Are instructions available from vendor for increased	
SAHD-14.1	hardening?	No
	Can the system prevent access to BIOS or other	
SHAD-15	bootloaders during boot?	Yes
STAD-13		163
	Have additional hardening methods not included in	
SAHD-16	2.3.19 been used to harden the device?	No
	SECURITY GUIDANCE (SGUD)	
	Availability of security quidance for operator and	
	administrator of the device and manufacturer sales	
	and service.	
	Does the device include security documentation for	
GUD-1	the owner/operator?	No
	Does the device have the capability, and provide	
	instructions, for the permanent deletion of data from	
SGUD-2	the device or media?	Yes
		=
CUD 3	Are all access accounts documented?	Yes
SGUD-3		<u> </u>
	Can the owner/operator manage password control	
SGUD-3.1	for all accounts?	No
	Does the product include documentation on	
SGUD-4	recommended compensating controls for the device?	<sup>o</sup> No
	HEALTH DATA STORAGE CONFIDENTIALITY	
	(STCF)	
	(5.6.)	
	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.	
STCF-1	Can the device encrypt data at rest?	Yes
STCF-1.1	Is all data encrypted or otherwise protected?	Yes
	Is the data encryption capability configured by	
CTCE 1.2		Voc
STCF-1.2	default?	Yes
	Are instructions available to the customer to	
STCF-1.3	configure encryption?	No
STCF-2	Can the encryption keys be changed or configured?	No
	Is the data stored in a database located on the	
STCF-3	device?	Yes
	Is the data stored in a database external to the	_
STCE A	device?	No
STCF-4	device:	
	TRANSMISSION CONFIDENTIALITY (TXCF)	
	The ability of the device to ensure the confidentiality	
	of transmitted personally identifiable information.	
	Can personally identifiable information be	
	transmitted only via a point-to-point dedicated	п.
TVCE 4		No
TXCF-1	cable?	_
TXCF-1		_
TXCF-1	cable?  Is personally identifiable information encrypted prior	_
TXCF-1		_

Zoe Medical, Incorpor; 91331 DM4		138-4005 Rev A	7-Feb-	2022
TXCF-2.1	If data is not encrypted by default, can the customer configure encryption options?  Is personally identifiable information transmission restricted to a fixed list of network destinations?	No Yes	_	
			_	
TXCF-4	Are connections limited to authenticated systems?	Yes	_	
	Are secure transmission methods			
TXCF-5	supported/implemented (DICOM, HL7, IEEE 11073)?	Yes		
	30pported,pree.tet (2700), 1222 22270).		_	
	TRANSMISSION INTEGRITY (TXIG)			
	The ability of the device to ensure the integrity of transmitted data.			
	Does the device support any mechanism (e.g., digital			
	signatures) intended to ensure data is not modified			
TXIG-1	during transmission?	Yes	_	
TVIC 2	Does the device include multiple sub-components	Nie		
TXIG-2	connected by external cables?	No	_	
	REMOTE SERVICE (RMOT)			
	Remote service refers to all kinds of device			
	maintenance activities performed by a service person			
	via network or other remote connection.			
	Does the device permit remote service connections			
RMOT-1	for device analysis or repair?	No	_	
	Does the device allow the owner/operator to			
RMOT-1.1	initiative remote service sessions for device analysis	N/A		
KIVIOT-1.1	or repair?  Is there an indicator for an enabled and active	N/A	_	
RMOT-1.2	remote session?	N/A		
1.1.7101 1.2	Can patient data be accessed or viewed from the	,	_	
RMOT-1.3	device during the remote session?	N/A		
	Does the device permit or use remote service	•	_	
RMOT-2	connections for predictive maintenance data?	No	_	
	Does the device have any other remotely accessible			
	functionality (e.g. software updates, remote			
	training)?	No		

## OTHER SECURITY CONSIDERATIONS (OTHR)

NONE

### Notes:

Note 1	The monitor can interface to to a clinical information system product (Spacelabs ICS-G2), either through a wired Ethernet network or wireless (via 802.11). In this case the possibility of transmitting PHI exists.
Note 2	The monitor as a standalone product cannot import or export PHI. The monitor integrated with the Spacelabs ICS G2 can import or export PHI. Please also refer to Note 1.
Note 3	All PHI is encrypted at rest by storage in an internal database. PHI is in a proprietary format behind the hospital firewall and is not encrypted when on a wired Ethernet interface. PHI is encrypted (from the monitor to the access point) when on a wireless (802.11) interface.
Note 4	The device does not require users to log in. It has a provision for locking the user interface so only users with knowledge of special passwords can make changes to the device settings.
Note 5	The device runs the Windows 10 standard Windows Defender anti-malware in the background.

7-Feb-2022

Note 6 For service access to underlying Windows settings,

unique passwords are required. These passwords may be changed by the service user (to provide uniqueness). These passwords must satisfy

complexity criteria. The device user interface advises users to save these passwords in a secure location after creating them. A "break-glass" mechanism is in place for instances when these passwords may be

lost.

Note 7 The monitor implements three levels of password

protection:

1 - Clinical (i.e. for nurse managers)2 - Service (for field service engineers)3 - Factory (for use in manufacturing)

Note 8 The monitor runs the Windows 10 IoT Enterprise

LTSB 2016 operating system.

Note 9 The monitor logs unsuccessful password entries for

password-protected menus (whether Clinical,

Service, or Factory level).

Note 10 When connected to a network, the monitor

synchronizes its date and time to the Spacelabs ICS-

G2 (clinical information system product).