		Manufacturer Disclosure Statement for	Medical Device Security – MDS ²	
		DEVICE DESCRIPTION		
Devic	e Categ		ment ID Document Release Date	
DEFIBRILLATORS ZOLL Medical Corporation 4/18/2014				
Devic	e Mode		Software Release Date	
		Plus (SA), ZOLL AED SA (v6.32); FA (v6.24)	SA (04/02/2012); FA (03/25/201	11)
			ufacturer Contact Information	
Manu	facturer		L Medical Corporation	
	esentati	Ve Poprocontative Name/Position 269	Mill Road	
Conta	ct Infor	Chel	msford, MA 01824	
Inton	-104 He	# # # # # # # # # # # # # # # # # # #) 421-9655	
The A	AED Pluns suffe	us is an automated external defibrillation (semi-automatic and ering from sudden cardiac arrest. The device does not have W t data using an IrDA connection.		
		MANAGEMENT OF P		
	Ref	er to Section 2.3.2 of this standard for the proper interpretation	Yes, No, of information requested in this form. N/A, or See Note	Note #
А		his device display, transmit, or maintain private data (includin		
	[ePHI		No	
В		s of private data elements that can be maintained by the device		
	B.1	Demographic (e.g., name, address, location, unique identification)		
	B.2	Medical record (e.g., medical record #, account #, test or treat		
	B.3	Diagnostic/thoronoutic (o.g. photo/radiograph test results o	No	
	Б.З	Diagnostic/therapeutic (e.g., photo/radiograph, test results, o characteristics)?	r physiologic data with identifying No	
	B.4	Open, unstructured text entered by device user/operator?	No	_
	B.5	Biometric data?	No	
	B.6	Personal financial information?	No	
С		aining private data - Can the device:	We No	
	C.1	Maintain private data temporarily in volatile memory (i.e., un		_
	C.2	Store private data persistently on local media?	No No	
	C.3	Import/export private data with other systems?	No No	
D	C.4	Maintain private data during power service interruptions? anisms used for the transmitting, importing/exporting of private		
	D.1	Display private data (e.g., video display, etc.)?	No	
	D.1 D.2	Generate hardcopy reports or images containing private dat		
	D.3	Retrieve private data from or record private data to remova CF/SD card, memory stick, etc.)?	- ·	
	D.4	Transmit/receive or import/export private data via dedicated USB, FireWire, etc.)?	cable connection (e.g., IEEE 1073, serial port, No	
	D.5	Transmit/receive private data via a wired network connection etc.)?	n (e.g., LAN, WAN, VPN, intranet, Internet,	
	D.6	Transmit/receive private data via an integrated wireless net	. •	
	D 7	etc.)?	No No	_
	D.7 D.8	Import private data via scanning? Other?	No No	
	gement e Data	of		

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Device Category		Manufacturer	Document ID	Document Release Date					
	BRILLATORS	ZOLL Medical Corporation	1	41747					
Device	Device Model Software Revision			Software Release Da	ate				
ZOLL	OLL AED Plus (SA), ZOLL AED SA (v6.32); FA (v6.24) SA (04/02/2012);			SA (04/02/2012); F.	A (03/25/201	11)			
	SECURITY CAPABILITIES								
-									
			retation of information requested	in this form.	N/A, or See Note	Note			
1	AUTOMATIC LOGOFF (ALC	•	orized was if daying is left idle.	for a pariod of time					
	, ·	ŕ	norized users if device is left idle	•					
1-1	(e.g., auto-logoff, session log	ck, password protected screen s			N/A	_			
	=	vity time before auto-logoff/scree rable range] in notes.)	en lock user or administrator conf	igurable? (Indicate	N/A				
		- · · · · · · · · · · · · · · · · · · ·	g., via a shortcut key or proximity s	sensor, etc.) by the	N/A	_			
ALOF notes:									
2	AUDIT CONTROLS (AUDT)								
	The ability to reliably audit a								
2-1	Can the medical device cre	eate an audit trail ?			No				
2-2		ng events are recorded in the aud	dit log:		110	_			
	2-2.1 Login/logout		v		N/A				
	2-2.2 Display/presentation	of data			N/A				
	2-2.3 Creation/modification				N/A	_			
	2-2.4 Import/export of data	from removable media			N/A				
	2-2.5 Receipt/transmission of data from/to external (e.g., network) connection								
	2-2.5.1 Remote service	, ,	,		N/A N/A				
	2-2.6 Other events? (descr	•			N/A				
2-3	,	used to identify individual events	recorded in the audit log:		10/11				
	2-3.1 User ID	•	3		N/A				
	2-3.2 Date/time				N/A				
					14/11	_			
AUDT									
notes:									
3	AUTHORIZATION (AUTH)								
ľ	, ,	etermine the authorization of use	ers.						
3-1	Can the device prevent acce	ess to unauthorized users throu	gh user login requirements or oth	er mechanism?	No				
3-2	Can users be assigned diffe power users , administrators		plication based on 'roles' (e.g., gu	iests, regular users ,	No				
3-3	Can the device owner/ operator obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?		rating system or	No					
AUTH notes:									

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DEFIE	BRILLATORS	ZOLL Medical Corporation	n	41747		
	Model	Software Revision		Software Release D	ate	
ZOLL	AED Plus (SA), ZOLL AED	SA (v6.32); FA (v6.24)		SA (04/02/2012); F	FA (03/25/20	11)
	Refer to Section 2.3.2 of the	his standard for the proper into	erpretation of information requeste	d in this form.	Yes, No, N/A, or See Note	Note #
4	CONFIGURATION OF SEC	URITY FEATURES (CNFS)			000 11010	
	The ability to configure/re-co	onfigure device security capa	abilities to meet users' needs.			
4-1	Can the device owner/opera	ator reconfigure product secur	rity capabilities?		N/A	
CNFS notes:						
5	CYBER SECURITY PRODU	ICT UPGRADES (CSUP)				
	The ability of on-site service	staff, remote service staff, or	authorized customer staff to instal	l/upgrade device 's secu	urity patches.	
5-1	Can relevant OS and device	security patches be applied	to the device as they become avai	ilable?	Yes	1
	5-1.1 Can security patches	s or other software be installed	d remotely?		No	
CSUP notes:	1. The device softwar	re can only be updated locall	y, there is no remote upgrade or p	atch capability		
6	HEALTH DATA DE-IDENTI	FICATION (DIDT)				
		• •	at allows identification of a person.			
6-1	Does the device provide an	integral capability to de-identi	fy private data?		NO	
DIDT notes:						
7	DATA BACKUP AND DISAS	` ,				
	The ability to recover after d	amage or destruction of devic	ce data, hardware, or software.			
7-1	Does the device have an int as tape, disk)?	egral data backup capability (i.e., backup to remote storage or r	emovable media such	N/A	
DTBK notes:						
8	EMERGENCY ACCESS (EM	MRG)				
	The ability of device users to private data.	o access private data in case	e of an emergency situation that re	quires immediate acces	ss to stored	
8-1	Does the device incorporate	e an emergency access ("bre	ak-glass") feature?		No	
EMRG notes:						
9	HEALTH DATA INTEGRITY	AND AUTHENTICITY (IGAU				
	How the device ensures that the originator.	t data processed by the devic	ce has not been altered or destroye	ed in an unauthorized m	anner and is	from
9-1	Does the device ensure the	integrity of stored data with in	nplicit or explicit error detection/co	rrection technology?	Yes	_
IGAU notes:						

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DEFIE	BRILLATORS	ZOLL Medical Corporation		41747		
Device	Model	Software Revision		Software Release D		
	AED Plus (SA), ZOLL AED	•		SA (04/02/2012); F		11)
	Refer to Section 2.3.2 of the	nis standard for the proper inter	pretation of information requested	in this form.	Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTION/PR	OTECTION (MLDP)				
	The ability of the device to e	ffectively prevent, detect and re	emove malicious software (malwar	e).		
10-1	Does the device support the	use of anti-malware software	(or other anti-malware mechanism	n)?	N/A	
	10-1.1 Can the user indepen	ndently re-configure anti-malw	are settings?		N/A	
		nalware detection occur in the			N/A	
	10-1.3 Can only manufacture	er-authorized persons repair sy	stems when malware has been de	tected?	N/A	
10.0	Can the device aumor install	or undata anti virua aeftuara	2		N/A N/A	
10-2 10-3		or update anti-virus software	? ate virus definitions on manufacture	or installed anti -	IV/A	_
10-3	virus software?	tor (technically/phrysically) upo	ate virus definitions on mandiacture	er-installed atti-	N/A	
MLDP						
notes:						
11	NODE AUTHENTICATION (I	NAUT)				$\overline{}$
	The ability of the device to a	uthenticate communication par	rtners/nodes.			
11-1	Does the device provide/sup	port any means of node authe	ntication that assures both the send	der and the recipient		
	of data are known to each ot	her and are authorized to recei	ve transferred information?		N/A	
NIALIT						
NAUT notes:						
12	PERSON AUTHENTICATION	N (PAUT)				
	Ability of the device to authe	nticate users				
12-1	Does the device support use	er/operator-specific username	(s) and password(s) for at least one	user?	N	
l .	40.4.4. Describe decise com		"Co IDo and a consente for modificate	0	No	
	12-1.1 Does the device supp	ort unique user/operator-spec	cific IDs and passwords for multiple	users?	No	
12-2	Can the device be configure	d to authenticate users throug	h an external authentication service	e a MS Active	110	_
'	Directory, NDS, LDAP, etc.)?		in an external authentication service	, (c.g., MO Active	No	
12-3	Can the device be configure	d to lock out a user after a cer	tain number of unsuccessful logon	attempts?		
					No	
12-4		nanged at/prior to installation?			No	
12-5	Are any shared user IDs use	,			No	
12-6	Can the device be configure rules?	d to enforce creation of user a	ccount passwords that meet establ	ished complexity	No	
12-7	Can the device be configure	d so that account passwords e	xpire periodically?		NO	
PAUT						
notes:						
13	PHYSICAL LOCKS (PLOK)					
		nauthorized users with physica e device or on removable med	al access to the device from compl lia .	omising the integrity a	and confidenti	ality
13-1	Are all device components n remove without tools)?	naintaining private data (other	than removable media) physically	secure (i.e., cannot	Yes	_
DI OK						
PLOK notes:						

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Device	Category	Manufacturer	Document ID	Document Release	Date	
	BRILLATORS	ZOLL Medical Corporation	1	41747		
Device	Model	Software Revision		Software Release D		
	AED Plus (SA), ZOLL AED	SA (v6.32); FA (v6.24)		SA (04/02/2012); F		11)
\vdash					Yes, No,	#
	Refer to Section 2.3.2 of the	nis standard for the proper interp	pretation of information requested i	in this form.	N/A, or See Note	Note
14	ROADMAP FOR THIRD PAI	RTY COMPONENTS IN DEVIC	E LIFE CYCLE (RDMP)			
	Manufacturer's plans for sec	urity support of 3rd party compo	nents within device life cycle.			
14-1	In the notes section, list the pincluding version number(s).	provided or required (separately	purchased and/or delivered) opera	ating system(s) -	N/A	
14-2	Is a list of other third party ap	oplications provided by the man	ufacturer available?		N/A	
RDMP						
notes:						
15	SYSTEM AND APPLICATIO	N HAPDENING (SAHD)				
	The device 's resistance to c	• •				
15-1			indicate in the notes the level of co	onformanco to any		
	industry-recognized hardening	ng standards.		·	N/A	
15-2		r mechanism (e.g., release-spec facturer-authorized program or s	cific hash key, checksums, etc.) to software update?	ensure the installed	N/A	_
15-3	Does the device have extern	nal communication capability (e.	g., network, modem, etc.)?		N/A	
15-4	Does the file system allow th (NTFS) for MS Windows plat		ccess controls (e.g., New Technolo	ogy File System	N/A	
15-5	Are all accounts which are no applications?	ot required for the intended use	e of the device disabled or deleted	I, for both users and	N/A	_
15-6	Are all shared resources (e.g	g., file shares) which are not req	uired for the intended use of the c	device, disabled?	N/A	_
15-7	Are all communication ports	which are not required for the ir	ntended use of the device closed/	/disabled?	N/A	
15-8		file transfer protocol [FTP], inter e of the device deleted/disabled	rnet information server [IIS], etc.), vd?	which are not	N/A	
15-9		pplications as well as OS-includ ided use of the device deleted/	led applications, e.g., MS Internet disabled?	Explorer, etc.) which	N/A	
15-10	Can the device boot from uncomponent)?	controlled or removable media	a (i.e., a source other than an interr	nal drive or memory	N/A	
15-11	Can software or hardware no tools?	ot authorized by the device man	ufacturer be installed on the devic	e without the use of	N/A	_
SAHD	notes:					
SAI ID	notes.					
16	SECURITY GUIDANCE (SG	UD)				
	The availability of security gu	idance for operator and admin	istrator of the system and manufac	cturer sales and service	e.	
16-1	Are security-related features	documented for the device use	er?		Yes	1
16-2	Are instructions available for of personal or other sensitive	•	instructions for how to achieve the	e permanent deletion	Yes	1
	1. Refer to product d					
SGUD	notes:					

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DEFIBRILLATORS		ZOLL Medical Corporation	1	41747		
Device	Model	Software Revision		Software Release	Date	
	AED Plus (SA), ZOLL AED	•		SA (04/02/2012);		11)
LOLL	TIED Tius (STI), ZOEE TIED	SIT (V0.32), 111 (V0.24)		571 (04/02/2012),		
	Refer to Section 2.3.2 of the	nis standard for the proper interp	retation of information requested	in this form.	Yes, No, N/A, or See Note	Note #
17	HEALTH DATA STORAGE (CONFIDENTIALITY (STCF)			000 11010	
		nsure unauthorized access does	s not compromise the integrity and	d confidentiality of p	rivate data sto	red
17-1	Can the device encrypt data	at rest?			No	
STCF notes:						
18	TRANSMISSION CONFIDEN	NTIALITY (TXCF)				
	The ability of the device to e	nsure the confidentiality of trans	mitted private data .			
18-1	Can private data be transmi	tted only via a point-to-point ded	licated cable?		N/A	
18-2	Is private data encrypted pri	or to transmission via a network	or removable media? (If yes, inc	dicate in the notes		
	which encryption standard is				N/A	
18-3	Is private data transmission	restricted to a fixed list of netwo	ork destinations?		N/a	_
TXCF notes:						
19	TRANSMISSION INTEGRIT	Y (TXIG)				
	The ability of the device to e	nsure the integrity of transmitted	private data.			
19-1	Does the device support any describe in the notes section		data is not modified during transi	mission? (If yes,	N/A	
TXIG notes:						
20	OTHER SECURITY CONSID	` ,				
	•	ations/notes regarding medical	device security.			
20-1	Can the device be serviced in	remotely?			No	
20-2	Can the device restrict remo addresses)?	te access to/from specified devi	ces or users or network locations	(e.g., specific IP	N/A	
	20-2.1 Can the device be co	onfigured to require the local use	er to accept or initiate remote acce	ess?	N/A	_
OTHR notes:						

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