

Urgent Field Safety Notice
Immediate Action Required – Product Recall
iPAD CU-SP1 / CU-SP1 Auto defibrillators

For Attention of:

Persons responsible for / owners of defibrillators, manufactured by CU Medical Systems Inc. and distributed in **the UK** are requested to read this notice and visit the website detailed on page 2, to confirm this notice has been read and understood as soon as possible.

Persons responsible for / owners of defibrillators, manufactured by CU Medical Systems Inc. and distributed in **Hungary and Ukraine** are requested to read this notice and contact Manufacturer's Branch - CU Medical Germany GmbH, to confirm this notice has been read and understood as soon as possible.

Products Affected

Product Description	Model Number	UDI	Software versions in use in affected units
iPAD semi-automated external defibrillator	CU-SP1	0880943548100	V1.00 to V1.41
iPAD fully automated external defibrillator	CU-SP1 AUTO	0880943548048	V1.00 to V1.10

Explanation

iPAD CU-SP1 and CU-SP1 AUTO defibrillator units that possess BOTH the following conditions:

- are installed with software versions **V1.41 or lower** for CU-SP1, and **V1.10 or lower** for CU-SP1 AUTO device
- AND**
- are set to either an English (British), Hungarian or Ukrainian language pack

have been identified as having a software issue that:

- overstates the battery status as 'full' - **although the battery energy condition is 'low'**. 'Low' refers to the battery status in which the device is unable to operate.
- can cause the reported battery charge status to drop from 'full' to 'low' when the unit is switched on

Therefore, as affected units report a higher battery charge status than the actual battery energy condition, this means a unit is not ready to operate as intended when required in a patient resuscitation situation. If the energy condition is low, alternative CPR must be performed.

The issue can be resolved through application of a software update on behalf of the manufacturer.

Advice on actions to be taken

Persons responsible for / owners of defibrillators are required to identify and report affected units. Please therefore:

1. Determine the current software version installed by interrogating the unit. Please see instructions on how to identify the software version later in this FSN.
2. For UK, report affected units by visiting the website: <http://www.ipad-aed.com/softwareupgrade>. For Hungary and Ukraine, contact Manufacturer's Branch – CU Medical Germany GmbH, by 20th September 2022. Doing this means that you have read and understood this Field Safety Notice. If in doubt as to whether a unit is affected, please visit the website and report (UK only) or contact Manufacturer's Branch – CU Medical Germany GmbH and report (Hungary or Ukraine).

Further information and updates concerning this issue and the product recall will be published on this website.

Any information you provide will only be used as part of this FSN and to facilitate any action required to upgrade your device with the latest software.

We apologise for any inconvenience caused by this issue.

Yours Sincerely,

CU Medical Systems, Inc.

Contact details of local representatives

Corrective Action Hotline (UK Only):

Email: helpdesk@cumedical.services

Phone: +44 (0) 3330115704

Manufacturer's Branch: CU Medical Germany GmbH

E-mail: service@cu-europe.com

Address: Berliner Straße 44, 10713 Berlin Germany

Phone : +49 30 6781 7804

Fax : +49 30 6782 0901

UK Distributor: WEL Medical Ltd.




E-mail: recall@welmedical.com

Address: 1 Chancerygate Way, GU14 8FF Farnborough, United Kingdom

Phone: +44 (0) 1252 344007

Urgent Field Safety Notice (FSN)
iPAD CU-SP1 / CU-SP1 Auto defibrillators

Some CU-SP1, CU-SP1 AUTO defibrillators overstate the battery status as 'full' even when the battery energy condition is 'low'.

Information on Affected Devices					
1	<p>1. Device Types and Models</p> <p>The CU-SP1 series is semi-automated external defibrillators (AED) and the CU-SP1 AUTO is a fully automated external defibrillator (AED). If connected to a patient, it automatically acquires and analyses the electrocardiogram (ECG) of the patient for the presence of Ventricular Fibrillation or Ventricular Tachycardia (also known as shockable rhythms).</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Model Number: CU-SP1</p> </div> <div style="text-align: center;">  <p>Model Number: CU-SP1 AUTO</p> </div> </div>				
1	<p>2. Commercial name</p> <div style="text-align: center;">  </div>				
1	<p>3. Unique Device Identifier(s) (UDI)</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>CU-SP1</td> <td>0880943548100</td> </tr> <tr> <td>CU-SP1 AUTO</td> <td>0880943548048</td> </tr> </table>	CU-SP1	0880943548100	CU-SP1 AUTO	0880943548048
CU-SP1	0880943548100				
CU-SP1 AUTO	0880943548048				
1	<p>4. Primary clinical purpose of devices</p> <p>The CU-SP1 and CU-SP1 AUTO are to be used on patients that are suspected of suffering from sudden cardiac arrest with all of the following signs:</p> <ul style="list-style-type: none"> a) No movement and no response when shaken b) No normal breathing 				



1	<p>5. Affected Software Version range</p> <p>V1.00 – V1.41 for CU-SP1, and V1.00 – V1.10 for CU-SP1 AUTO (please note – CU-SP1 units with V1.42 or higher and CU-SP1 AUTO units with V1.20 or higher are not affected by the issue)</p>
1	<p>6. Affected serial or lot number range</p> <p>Devices using software versions as above AND set to English (British) or Hungarian or Ukrainian language packs.</p> <p>Date of manufacture: Potentially affected devices were manufactured between 01.05.2013 – 31.05.2018</p>

Reason for Field Safety Corrective Action (FSCA)	
2	<p>1. Description of the product problem</p> <p>The following issue has been reported in the UK to CU Medical Systems, Inc. due to abnormal operation in use.</p> <ul style="list-style-type: none"> • A unit’s battery meter reported battery status as fully charged • when the device was turned on, the battery meter then reported low battery status and the battery energy condition was also found to be low <p>The problem has been identified as a software issue affecting CU-SP1 units operating with software version V1.41 or lower (software version V1.10 or lower for CU-SP1 AUTO) and have either English (British) or Hungarian or Ukrainian language pack set.</p>
2	<p>2. Hazard giving rise to the FSCA</p> <p>The battery meter displays full status, despite the real energy level of the battery being low. The device does not operate in this case.</p>
2	<p>3. Probability of problem arising</p> <p>We confirmed that this issue can only occur if the following conditions are met.</p> <ol style="list-style-type: none"> 1. The remaining power of the battery is low. 2. The battery was not replaced after the battery alarm was triggered for the first time when the battery initially reached the ‘low power’ threshold. <p>The problem does not occur on devices that are checked regularly and batteries are replaced when initially prompted.</p>
2	<p>4. Predicted risk to patient/users</p> <p>In the worst-case scenario, there is a risk that unit will be found to have insufficient battery energy to function, which consequently leads to an unsuccessful resuscitation of the patient, if no replacement defibrillator is available to be used.</p>

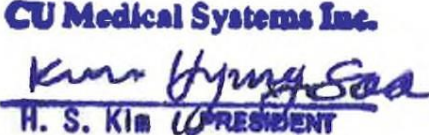
2	<p data-bbox="309 250 651 282">5. Background on Issue</p> <p data-bbox="261 322 651 353">Abnormal device behaviour</p> <p data-bbox="261 389 1423 456">Unexpected behaviour of some units, either during operation or in standby mode, has been reported to CU Medical.</p> <ul data-bbox="261 501 1423 680" style="list-style-type: none"><li data-bbox="261 501 1423 568">• The battery status meter was displayed as ‘full’ but when the device was turned on, the battery meter immediately changed from ‘full’ to ‘low’<li data-bbox="261 613 1423 680">• When the battery reached ‘low’, the issue described above could occur during all operations of the device, including self-tests. <p data-bbox="261 739 421 770">Root cause</p> <p data-bbox="261 806 1423 1008">Root cause analysis has determined that this is a software issue confined to affecting software versions V1.00 - V1.41 for CU-SP1 and V1.00 - V1.10 for CU-SP1 AUTO, resulting from an overlap in the variable memory area. After the battery level was determined, the variable memory area was overlapped while loading an English (British) or Hungarian or Ukrainian language pack table. Due to this reason resulting in the battery status meter is displayed as ‘full’.</p> <p data-bbox="261 1043 963 1075">Actions that prevent this from happening in future</p> <p data-bbox="261 1111 1423 1178">Re-verification for all languages currently applied has confirmed that this issue only occurs in units set to English (British), Hungarian, or Ukrainian language packs.</p> <p data-bbox="261 1214 1423 1312">We have confirmed during the debugging that this issue does not occur until the battery energy condition is low. It has also been confirmed that this problem does not occur if the battery is replaced promptly after a low battery alarm is displayed for the first time.</p> <p data-bbox="261 1348 1423 1415">To correct this issue and prevent it from happening, installation of a software update is required.</p> <p data-bbox="261 1451 1423 1518">The root cause is resolved in the software update that will applied through this product recall.</p>
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2	<p data-bbox="309 1576 849 1608">6. Other information relevant to FSCA</p> <p data-bbox="261 1644 1423 1751">The root cause only can be eliminated by upgrading to the latest version of the software. For UK, please visit the website below for further information. For Hungary and Ukraine, please contact Manufacturer’s Branch – CU Medical Germany GmbH.</p> <p data-bbox="261 1787 820 1818">http://www.ipad-aed.com/softwareupgrade</p>
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Type of Action to mitigate the risk

3.	<p>1. Action To Be Taken by the User</p> <p style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Identify Device <input checked="" type="checkbox"/> Return Device </p> <p><input checked="" type="checkbox"/> On-site device modification/inspection</p> <p>Step 1 – Identify defibrillators Model CU-SP1 and CU-SP1 Auto.</p> <p>The model number, the date of manufacture and the serial number are presented on the label on rear of unit.</p> <div style="text-align: center;">  </div> <p>Step 2 – Interrogate the unit to identify the software version installed is V1.41 or earlier for CU-SP1 and V1.10 or earlier for CU-SP1 AUTO by following these steps:</p> <p style="margin-left: 40px;">One. Press i-button for 2 seconds to confirm the software version.</p> <div style="text-align: center;">  </div> <p style="margin-left: 40px;">Two. The first 3 digits of 9 digits are the software version. For instance, if the device utters <u>1 4 0</u> 1 0 0 1 0 0, <u>V1.40</u> is the software version.</p> <p>Step 3 – If you are in the UK, please visit the website to arrange software update. http://www.ipad-aed.com/softwareupgrade</p> <p>If you are in Hungary or Ukraine, please contact Manufacturer’s Branch – CU Medical Germany GmbH, to arrange software update.</p>
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	<p>Step 4 – Perform a self-diagnosis on the device</p> <p>Following the IFU, section 8.1, if the Buttons Test of the Battery Insertion Test or the Voice Prompt Test of the Battery Insertion Test fails, immediate battery replacement is required.</p> <p>Following the IFU, section 8.1, if the Power ON Test fails, replace the battery immediately.</p> <p>Following the IFU, section 8.2, check all errors and warning messages – both any displayed symbol or vocal announcement. The main cause of errors and warning messages must be confirmed and resolved before using the device.</p> <p>Following the IFU 3.1 – Notice of Standard Package Contents, <u>an additional battery for replacement is the best way to prevent the worst scenario case.</u></p> <p>If the device fails during an emergency, do not stop doing CPR until an alternative device is available.</p> <p>If you are not sure about the energy condition of your device, please contact us immediately for additional guidance.</p>	
3.	2. By when should the action be completed?	The user should complete the action no later than 3 (three) months after the FSN is notified.
3.	3. Is customer Reply Required?	<p>YES</p> <p>If you are in the UK, please visit the website: http://www.ipad-aed.com/softwareupgrade to register your details so that we may arrange the software upgrade.</p> <p>If you are in the Hungary or Ukraine, please contact Manufacturer’s Branch – CU Medical Germany GmbH, to arrange software upgrade.</p>
3.	<p>4. Action Being Taken by the Manufacturer</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> On-site device modification/inspection <input checked="" type="checkbox"/> Software upgrade <p>The cause of this issue has been identified and can be resolved with the software update.</p> <p>The manufacturer will install updated software on all affected devices. This software update will be performed by experienced engineers who have been trained by the manufacturer. All costs will be covered by the manufacturer.</p> <p>Dedicated E-Mail and telephone support will be available for immediate response to customer enquiries.</p>	
3	5. By when should the action be completed?	By Mar 2023

4. General Information*	
4.	1. FSN Type* New
4.	2. Further advice or information already expected in follow-up FSN? * Not planned yet
4.	3. Manufacturer information (For contact details of local representative refer to page 2 of this FSN)
	a. Company Name CU Medical Systems, Inc.
	b. Address 130-1, Donghwagongdan-ro, Munmak-eup, Wonju-si, Gangwon-do, Republic of Korea
	c. Website address http://www.cu911.com
4.	4. The Competent (Regulatory) Authority of your country has been informed about this communication to customers. YES
4.	5. List of attachments/appendices: None
4.	6. Name/Signature Kim, Hyung Soo Chief Executive Officer
	 CU Medical Systems Inc. H. S. Kim PRESIDENT

Transmission of this Field Safety Notice	
	<p>This notice needs to be passed on all those who need to be aware within your organisation or to any organisation where the potentially affected devices have been transferred. (As appropriate)</p> <p>Please transfer this notice to other organisations on which this action has an impact. (As appropriate)</p> <p>Please maintain awareness on this notice and resulting action for an appropriate period to ensure effectiveness of the corrective action.</p> <p>Please report all device-related incidents to the manufacturer, distributor or local representative, and the national Competent Authority if appropriate, as this provides important feedback. *</p>