

Product Change Notification

MultiConnect[®] eCell (MTE and MTE2)
MultiConnect[®] rCell 500 Series (MTR5)
MultiConnect[®] rCell 600 Series (MTR6)
MultiConnect[®] CBRS Wi-Fi AP (MTCAPW)

Updated Firmware Available

Date: April 6, 2022

Product Change Notification (PCN) Number

PCN 04062022-001 (Firmware Update)

Overview

In June 2022, an updated firmware version will be available to resolve [CVE-2022-0778](#) and other openssl CVE ([openssl release notes](#))

- See [part numbers impacted](#) for details

Suggested Action Plan

Customers

1. Recognize that impacted devices require a firmware update to resolve a security vulnerability
2. Evaluate the new firmware version and update deployed devices if needed
3. Additional information
 - Technical inquiries: support.multitech.com
 - Sales inquiries: email sales@multitech.com

Distributors

- Forward this announcement to others in your organization who are actively involved in the sale or support of access points, routers, and Ethernet bridges
- Encourage customers to evaluate the new firmware version in their environment.

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Firmware Overview

New firmware versions include the following operating system component update

<p>Updated OpenSSL</p> <ul style="list-style-type: none"> • OpenSSL updated to version 1.1.1n • Resolution to CVE-2022-0778 and other openssl CVE (openssl release notes) • Additional information available at: http://www.multitech.com/landing-pages/security 	-
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Schedule

New firmware versions will be available for download in June 2022.

Ordering Part Numbers Impacted

The following ordering part numbers are impacted by these updates:

- MultiConnect® eCell
 - MTE-LAT6-B07-US
 - MTE-LEU6-B07-EU-GB-AU
 - MTE2-L12G2-B07-US
- MultiConnect® rCell 500 Series
 - MTR5-LEU2-B04.R1-EU-GB
- MultiConnect® rCell 600 Series
 - MTR6-L12G1-B04-US
- MultiConnect® CBRS Wi-Fi AP
 - MTCAPW-L12G2-A600VA-CUA

Upgrade Process

Updated firmware is available at www.multitech.com.

1. Select the category and product family of interest
 2. Locate and select the correct model number from the Product Listing
 3. Visit the DOWNLOADS tab for the list of available firmware downloads
- MultiConnect® eCell
 - MTE-LAT6-B07-US <https://www.multitech.com/models/92507165LF>
 - DOWNLOADS tab, MTE-LAT6-v211
 - MTE-LEU6-B07-EU-GB-AU <https://www.multitech.com/models/92507166LF>
 - DOWNLOADS tab, MTE-LEU6-v211
 - MTE2-L12G2-B07-US <https://www.multitech.com/models/92507163LF>
 - DOWNLOADS tab, MTE-Lxxx-v308
 - MultiConnect® rCell 500 Series
 - MTR5-LEU2-B04.R1-EU-GB <https://www.multitech.com/models/92507337LF>
 - DOWNLOADS tab, MTR5-LEU2-v420
 - MultiConnect® rCell 600 Series
 - MTR6-L12G1-B04-US <https://www.multitech.com/models/92507338LF>
 - DOWNLOADS tab, MTR6-L12G1-v506
 - MultiConnect® CBRS Wi-Fi AP
 - MTCAPW-L12G2-A600VA-CUA - <https://www.multitech.com/models/92507151LF>
 - DOWNLOADS tab, MTCAPW-L12G2-v405

Additional Information

If you have any questions regarding this Product Change Notification, please contact your MultiTech sales representative or visit the technical resources listed below:

World Headquarters – USA

+1 (763) 785-3500 | sales@multitech.com

EMEA Headquarters – UK

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MultiTech Security Advisories

www.multitech.com/landing-pages/security

MultiTech monitors industry news and announcements to identify security issues that may impact our devices and operating systems and strive to provide the information and tools to keep your deployments secure and online.

MultiTech Developer Resources:

www.multitech.net

An open environment where you can ask development related questions and hear back from MultiTech engineering or a member of this community.

Knowledge Base:

<http://www.multitech.com/kb.go>

Immediate access to support information and resolutions for all MultiTech products.

MultiTech Support Portal:

support.multitech.com

Create an account and submit a support case directly to our technical support team.

MultiTech Website:

www.multitech.com

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ATTACHMENT I
Identifying Firmware Version

When logging into the device via the user interface, the user can easily identify the version of firmware on their device.



Firmware version 405
MTCAPW-L12G2-v405

Revision History

Version	Author	Date	Change Description
-001	DT	04/04/2022	Original version

Security Advisory 04042022-002

CVE-2022-0778

Initial Publication Date: April 4, 2022

Vulnerability Details:

- [CVE-2022-0778](#)
- The BN_mod_sqrt() function, which computes a modular square root, contains a bug that can cause it to loop forever for non-prime moduli. Internally this function is used when parsing certificates that contain elliptic curve public keys in compressed form or explicit elliptic curve parameters with a base point encoded in compressed form.
- OpenSSL advisory <https://www.openssl.org/news/secadv/20220315.txt>

CVSS Version 3.X Score: 7.5 - High

Summary

This issue affects OpenSSL version 1.1.1m and older. All versions of OpenSSL 1.0.2 that support elliptic curve ciphers are also affected. It was addressed and fixed in OpenSSL 1.1.1n on March 15, 2022.

mPower™ and mLinux operating systems and device-specific firmware versions include OpenSSL and are being updated to OpenSSL 1.1.1n.

- mPower versions prior to mPower 5.3.0 and mPower MTR 5.3.0 are built on OpenSSL 1.0.2X and not supported with upgrades. An upgrade to mPower 5.3.8s-s1 or mPower MTR 5.3.6s-s1 is required.
- mLinux versions prior to mLinux 5.3.0 are built on OpenSSL 1.0.2X and are not supported with upgrades. An upgrade to mLinux 6.0 is required.

Devices and Operating Systems Impacted by CVE-2022-0778

The following table summarizes the devices and operating systems impacted by [CVE-2022-0778](#) and the operating system versions in which this vulnerability will be fixed.

	Device ⁽¹⁾ (Model)	Currently Shipping Operating Systems	Updated Operating Systems (including fix)
Bridge	MultiConnect® eCell (MTE)	MTE-LAT6-v208 MTE-LEU6-v208	MTE-LAT6-v211 MTE-LEU6-v211
	MultiConnect® eCell (MTE2)	MTE-Lxxx-v208	MTE-Lxxx-v308
Router	MultiConnect® rCell (MTR)	mPower MTR 5.3.0 mPower MTR 5.3.6	mPower MTR 5.3.6s-s1 mPower MTR 6.0.X
		mLinux 5.3.31	mLinux 6.0.X
Router	MultiConnect® rCell (MTRE)	-	-
Router	MultiConnect® rCell 500 Series (MTR5)	MTR5-LEU2-v417	MTR5-LEU2-v420

Device ⁽¹⁾ (Model)		Currently Shipping Operating Systems	Updated Operating Systems (including fix)
Router	MultiConnect® rCell 600 Series (MTR6)	MTR6-L12G1-v505	MTR6-L12G1-v506
Gateway	Conduit® 300 Series (MTCDT3AC)	mPower 5.4.0	mPower 6.0.Y ⁽²⁾
Gateway	Conduit® Programmable (MTCDT)	mPower 5.3.5 mPower 5.3.7	mPower 5.3.8s-s1 mPower 6.0.X
		mLinux 5.3.31	mLinux 6.0.X
Base Station	Conduit® IP67 Base Station (MTCDTIP)	mPower 5.3.5 mPower 5.3.7	mPower 5.3.8s-s1 mPower 6.0.X
		mLinux 5.3.31	mLinux 6.0.X
Base Station	Conduit® IP67 200 Series Base Station (MTCDTIP2)	mPower 5.3.5 mPower 5.3.8	mPower 5.3.8s-s1 mPower 6.0.X
Access Point	Conduit® AP Access Point (MTCAP, MTCAP2)	mPower 5.3.5 mPower 5.3.8	mPower 5.3.8s-s1 mPower 6.0.X
		mLinux 5.3.0	mLinux 6.0.X
		mLinux 5.3.4	mLinux 6.0.X
Access Point	MultiConnect® CBRS Wi-Fi AP (MTCAPW)	-	MTCAPW-L12G2-v405
Hot Spot	MultiConnect® Hotspot (MTHS)	Under Investigation	-

(1) Only MultiTech devices expressly listed in this table are impacted by this advisory

(2) mPower 6.0.Y is for use on the Conduit 300 only

Services Impacted by CVE-2022-0778

- MultiTech DeviceHQ® - Cloud-based IoT Device Management – Under Investigation
- MultiTech LENS® - LoRaWAN® Optimized Embedded Network Server and Key Management Toolset – Under Investigation

Schedule

Operating systems can be updated using a full image or differential image.

	Downloadable	Device Shipments ***
mLinux 6.0.X	April 2022 *	July 2022
mPower™ 5.3.6s-s1	April 2022 **	April 2022
mPower™ 5.3.8s-s1	April 2022 *	April 2022
mPower™ 6.0.X	April 2022 *	July 2022
mPower™ 6.0.Y	June 2022 *	June 2022
MTE-LAT6-v208	June 2022 **	TBD
MTE-LEU6-v208	June 2022 **	TBD
MTE-Lxxx-v208	June 2022 **	TBD
MTR5-LEU2-v420	June 2022 **	TBD
MTR6-L12G1-v506	June 2022 **	TBD
MTCAPW-L12G2-v405	June 2022 **	TBD

(*) Full image updates are downloadable on DeviceHQ and at <http://www.multitech.net/developer/downloads/>

(**) Full image updates are downloadable on device product pages on www.multitech.com

(***) Devices that ship from MultiTech will include the updated operating system

Differential image updates are available through the MultiTech Product Support Portal

- Visit <https://support.multitech.com/>
- Create a support case and request access to differential file updates
- Not all firmware versions include a differential image update

Customer Action Plan

Devices/Operating Systems: MultiTech recommends updating to the updated operating systems listed above.

Services: Under Investigation.



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Revision History

Version	Author	Date	Change Description
-001	DT	04/04/2022	Published version
-002	DT	04/06/2022	Updates made for the following devices: <ul style="list-style-type: none">• MultiConnect® eCell (MTE)• MultiConnect® rCell 500 Series (MTR5)• MultiConnect® rCell 600 Series (MTR6)• MultiConnect® CBRS Wi-Fi AP (MTCAPW)