

## Security Advisory 10122022-001

### CVE-2022-2068

**Initial Publication Date: October 12, 2022**

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#### Vulnerability Details:

##### CVE-2022-2068

- In addition to the c\_rehash shell command injection identified in CVE-2022-1292, further circumstances where the c\_rehash script does not properly sanitise shell metacharacters to prevent command injection were found by code review. When the CVE-2022-1292 was fixed it was not discovered that there are other places in the script where the file names of certificates being hashed were possibly passed to a command executed through the shell. This script is distributed by some operating systems in a manner where it is automatically executed. On such operating systems, an attacker could execute arbitrary commands with the privileges of the script. Use of the c\_rehash script is considered obsolete and should be replaced by the OpenSSL rehash command line tool. Fixed in OpenSSL 1.1.1p (Affected 1.1.1-1.1.1o).
- OpenSSL advisory: <https://www.openssl.org/news/secadv/20220621.txt>

CVSS Version 3.X Score: 9.8 Critical

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#### Summary

This issue affects OpenSSL version 1.1.1o. It was addressed and fixed in OpenSSL 1.1.1p on June 21, 2022.

mPower™ operating systems do not use c\_rehash script, openssl-rehash script is used

- CVE-2022-2068 does not impact mPower devices

mLinux operating systems use c\_rehash script

- CVE-2022-2068 could impact mLinux devices (depending on the customer's application)
- Future mLinux versions will be updated to support OpenSSL version 1.1.1p
  - mLinux 6.1.X will be built using OpenSSL 1.1.1p
  - mLinux 6.0.1 is built using OpenSSL 1.1.1n
  - Previous mLinux versions used OpenSSL 1.1.1b

MultiTech DeviceHQ® - Cloud-based IoT Device Management

- CVE-2022-2068 does not impact MultiTech DeviceHQ
- MultiTech servers have been updated to address this issue

MultiTech LENS® - LoRaWAN® Optimized Embedded Network Server and Key Management Toolset

- CVE-2022-2068 does not impact MultiTech LENS
- MultiTech servers have been updated to address this issue

### Customer Action Plan

1. MultiTech recommends that customers update to the operating systems listed in this advisory if c\_rehash scripts and CVE-2022-2068 are a concern.
2. Subscribe to MultiTech Security Alerts and Notifications  
<https://info.multitech.com/acton/form/27728/000e:d-0001/1/-/-/-/-/index.htm>

### Devices and Operating Systems Impacted by CVE-2022-2068

The following table summarizes the devices and operating systems impacted by [CVE-2022-2068](#) and the operating system versions that will include updates to the OpenSSL version.

	Device <sup>(1)</sup> (Model)	Currently Shipping Operating Systems	Updated Operating Systems (OpenSSL 1.1.1p)
Gateway	Conduit® Programmable (MTCDT)	mLinux 6.0.1	mLinux 6.1.X
Base Station	Conduit® IP67 Base Station (MTCDTIP)	mLinux 6.0.1	mLinux 6.1.X
Access Point	Conduit® AP Access Point (MTCAP, MTCAP2)	mLinux 6.0.1	mLinux 6.1.X

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

### Schedule

	Downloadable	Device Shipments **
mLinux 6.1.X	TBD *	TBD

(\*) Image updates are downloadable at <http://www.multitech.net/developer/downloads/>

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



### **Additional Information**

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

#### **World Headquarters – USA**

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#### **MultiTech Security Advisories**

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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.

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#### **MultiTech Developer Resources**

[www.multitech.net](http://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](http://support.multitech.com)

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

#### **MultiTech Website**

[www.multitech.com](http://www.multitech.com)

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**Revision History**

Version	Author	Date	Change Description
-001	DT	10/12/2022	Published version