



CVE-2023-1257

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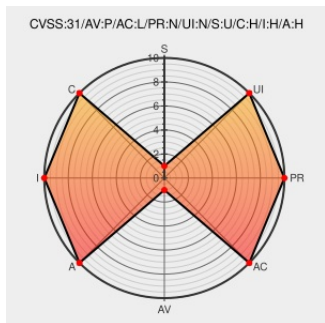
CVE-2023-1257

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



Certain versions of **Uc-2101-lx** from **Moxa** contain the following vulnerability:

An attacker with physical access to the affected Moxa UC Series devices can initiate a restart of the device and gain access to its BIOS. Command line options can then be altered, allowing the attacker to access the terminal. From the terminal, the attacker can modify the device's authentication files to create a new user and gain full access

to the system.

CVE-2023-1257 has been assigned by ics-cert@hq.dhs.gov to track the vulnerability - currently rated as **MEDIUM** severity.

CVSS3 Score: **6.8 - MEDIUM**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
PHYSICAL	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVE References

Description	Tags	Link
Moxa UC Series (Update A) CISA	www.cisa.gov text/html	MISC www.cisa.gov/uscert/ics/advisories/icsa-22-333-04

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Hardware  	Moxa	Uc-2101-lx	-	All	All	All
Operating System	Moxa	Uc-2101-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2102-lx	-	All	All	All
Operating System	Moxa	Uc-2102-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2102-t-lx	-	All	All	All
Operating System	Moxa	Uc-2102-t-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2104-lx	-	All	All	All
Operating System	Moxa	Uc-2104-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2111-lx	-	All	All	All
Operating System	Moxa	Uc-2111-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2112-lx	-	All	All	All
Operating System	Moxa	Uc-2112-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2114-t-lx	-	All	All	All
Operating System	Moxa	Uc-2114-t-lx Firmware	-	All	All	All
Operating System	Moxa	Uc-2114-t-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-2116-t-lx	-	All	All	All
Operating System	Moxa	Uc-2116-t-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-3101-t-ap-lx	-	All	All	All
Operating System	Moxa	Uc-3101-t-ap-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-3101-t-eu-lx	-	All	All	All
Operating System	Moxa	Uc-3101-t-eu-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-3101-t-us-lx	-	All	All	All
Operating System	Moxa	Uc-3101-t-us-lx Firmware	All	All	All	All
Hardware  	Moxa	Uc-3111-t-ap-lx	-	All	All	All
Hardware  	Moxa	Uc-3111-t-ap-lx-nw	-	All	All	All

Operating System	Moxa	Uc-3111-t-ap-lx-nw Firmware	All	All	All	All
Operating System	Moxa	Uc-3111-t-ap-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-3111-t-eu-lx	-	All	All	All
Hardware 	Moxa	Uc-3111-t-eu-lx-nw	-	All	All	All
Operating System	Moxa	Uc-3111-t-eu-lx-nw Firmware	All	All	All	All
Operating System	Moxa	Uc-3111-t-eu-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-3111-t-us-lx	-	All	All	All
Hardware 	Moxa	Uc-3111-t-us-lx-nw	-	All	All	All
Operating System	Moxa	Uc-3111-t-us-lx-nw Firmware	All	All	All	All
Operating System	Moxa	Uc-3111-t-us-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-3121-t-ap-lx	-	All	All	All
Operating System	Moxa	Uc-3121-t-ap-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-3121-t-eu-lx	-	All	All	All
Operating System	Moxa	Uc-3121-t-eu-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-3121-t-us-lx	-	All	All	All
Operating System	Moxa	Uc-3121-t-us-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-5101-lx	-	All	All	All
Operating System	Moxa	Uc-5101-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-5101-t-lx	-	All	All	All
Operating System	Moxa	Uc-5101-t-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-5102-lx	-	All	All	All
Operating System	Moxa	Uc-5102-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-5102-t-lx	-	All	All	All
Operating System	Moxa	Uc-5102-t-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-5111-lx	-	All	All	All
Operating System	Moxa	Uc-5111-lx Firmware	1.2	All	All	All

Hardware 	Moxa	Uc-5111-t-lx	-	All	All	All
Operating System	Moxa	Uc-5111-t-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-5112-lx	-	All	All	All
Operating System	Moxa	Uc-5112-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-5112-t-lx	-	All	All	All
Operating System	Moxa	Uc-5112-t-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-8112-lx	-	All	All	All
Operating System	Moxa	Uc-8112-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-8112-me-t-lx	-	All	All	All
Hardware 	Moxa	Uc-8112-me-t-lx1	-	All	All	All
Operating System	Moxa	Uc-8112-me-t-lx1 Firmware	All	All	All	All
Operating System	Moxa	Uc-8112-me-t-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-8112a-me-t-lx	-	All	All	All
Operating System	Moxa	Uc-8112a-me-t-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-8131-lx	-	All	All	All
Operating System	Moxa	Uc-8131-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-8132-lx	-	All	All	All
Operating System	Moxa	Uc-8132-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-8162-lx	-	All	All	All
Operating System	Moxa	Uc-8162-lx Firmware	1.2	All	All	All
Hardware 	Moxa	Uc-8210-t-lx-s	-	All	All	All
Operating System	Moxa	Uc-8210-t-lx-s Firmware	All	All	All	All
Hardware 	Moxa	Uc-8220-t-lx	-	All	All	All
Hardware 	Moxa	Uc-8220-t-lx-ap-s	-	All	All	All
Operating System	Moxa	Uc-8220-t-lx-ap-s Firmware	All	All	All	All
Hardware 	Moxa	Uc-8220-t-lx-eu-s	-	All	All	All
Operating System	Moxa	Uc-8220-t-lx-eu-s Firmware	All	All	All	All

Hardware 	Moxa	Uc-8220-t-lx-s	-	All	All	All
Operating System	Moxa	Uc-8220-t-lx-s Firmware	All	All	All	All
Hardware 	Moxa	Uc-8220-t-lx-us-s	-	All	All	All
Operating System	Moxa	Uc-8220-t-lx-us-s Firmware	All	All	All	All
Operating System	Moxa	Uc-8220-t-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-8410a-lx	-	All	All	All
Operating System	Moxa	Uc-8410a-lx Firmware	2.2	All	All	All
Hardware 	Moxa	Uc-8410a-nw-lx	-	All	All	All
Operating System	Moxa	Uc-8410a-nw-lx Firmware	2.2	All	All	All
Hardware 	Moxa	Uc-8410a-nw-t-lx	-	All	All	All
Operating System	Moxa	Uc-8410a-nw-t-lx Firmware	2.2	All	All	All
Hardware 	Moxa	Uc-8410a-t-lx	-	All	All	All
Operating System	Moxa	Uc-8410a-t-lx Firmware	2.2	All	All	All
Hardware 	Moxa	Uc-8540-lx	-	All	All	All
Operating System	Moxa	Uc-8540-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-8540-t-ct-lx	-	All	All	All
Operating System	Moxa	Uc-8540-t-ct-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-8540-t-lx	-	All	All	All
Operating System	Moxa	Uc-8540-t-lx Firmware	All	All	All	All
Hardware 	Moxa	Uc-8580-lx	-	All	All	All
Operating System	Moxa	Uc-8580-lx Firmware	1.1	All	All	All
Hardware 	Moxa	Uc-8580-q-lx	-	All	All	All
Operating System	Moxa	Uc-8580-q-lx Firmware	1.1	All	All	All
Hardware 	Moxa	Uc-8580-t-ct-lx	-	All	All	All
Operating System	Moxa	Uc-8580-t-ct-lx Firmware	1.1	All	All	All
Hardware 	Moxa	Uc-8580-t-ct-q-lx	-	All	All	All

Operating System	Moxa	Uc-8580-t-ct-q-lx Firmware	1.1	All	All	All
Hardware 	Moxa	Uc-8580-t-lx	-	All	All	All
Operating System	Moxa	Uc-8580-t-lx Firmware	1.1	All	All	All
Hardware 	Moxa	Uc-8580-t-q-lx	-	All	All	All
Operating System	Moxa	Uc-8580-t-q-lx Firmware	1.1	All	All	All
cpe:2.3:h:moxa:uc-2101-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2101-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2102-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2102-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2102-t-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2102-t-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2104-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2104-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2111-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2111-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2112-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2112-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2114-t-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2114-t-lx_firmware:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2114-t-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-2116-t-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-2116-t-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-3101-t-ap-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-3101-t-ap-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-3101-t-eu-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-3101-t-eu-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:h:moxa:uc-3101-t-us-lx:-:~::~~::~~::~~::~~::~~::~~:::						
cpe:2.3:o:moxa:uc-3101-t-us-lx_firmware:~::~~::~~::~~::~~::~~::~~:::						

```
cpe:2.3:h:moxa:uc-3111-t-ap-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-3111-t-ap-lx-nw:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3111-t-ap-lx-nw_firmware:*.:*:*:*:*:*.*
```

```
cpe:2.3:o:moxa:uc-3111-t-ap-lx_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-3111-t-eu-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-3111-t-eu-lx-nw:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3111-t-eu-lx-nw_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3111-t-eu-lx_firmware:*:*:*:*:*:*
```

```
cpe:2.3:h:moxa:uc-3111-t-us-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-3111-t-us-lx-nw:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3111-t-us-lx-nw_firmware:*.:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3111-t-us-lx_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-3121-t-ap-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3121-t-ap-lx firmware:*. *. *. *. *. *. *. *
```

```
cpe:2.3:h:moxa:uc-3121-t-eu-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3121-t-eu-lx_firmware:*.~*~*~*~*~*~*
```

```
cpe:2.3:h:moxa:uc-3121-t-us-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-3121-t-us-lx firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-5101-lx:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5101-lx_firmware:1.2:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-5101-t-lx:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5101-t-lx_firmware:1.2:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-5102-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5102-lx_firmware:1.2:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-5102-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5102-t-lx_firmware:1.2:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-5111-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5111-lx_firmware:1.2:*:*:*:*:*:*:
```

00002 2-b-moxyline 5111 + lv. *.*,*,*,*,*,*.

696.2.5.11.110Xa.00-0111-11A.7.

```
cpe:2.3:o:moxa:uc-5111-t-lx_firmware:1.2:::~::~:
```

```
cpe:2.3:h:moxa:uc-5112-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5112-lx_firmware:1.2:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-5112-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-5112-t-lx_firmware:1.2:::~::~:
```

```
cpe:2.3:h:moxa:uc-8112-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8112-lx_firmware:1.2:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8112-me-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8112-me-t-lx1:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8112-me-t-lx1_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8112-me-t-lx_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8112a-me-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8112a-me-t-lx_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8131-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8131-lx_firmware:1.2:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8132-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8132-lx_firmware:1.2:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8162-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8162-lx_firmware:1.2:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8210-t-lx-s:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8210-t-lx-s_firmware:*.:.:.:.:.:.:.:
```

```
cpe:2.3:h:moxa:uc-8220-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8220-t-lx-ap-s:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8220-t-lx-ap-s_firmware:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8220-t-lx-eu-s:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8220-t-lx-eu-s_firmware:*.:.:.:.:.:.:
```

```
cpe:2.3:h:moxa:uc-8220-t-lx-s:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8220-t-lx-s firmware:*.:.:.:.:.:.:.:
```



```
cpe:2.3:h:moxa:uc-8220-t-lx-us-s:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8220-t-lx-us-s firmware:*.***.***.***.
```

```
cpe:2.3:o:moxa:uc-8220-t-lx firmware:*. *. *. *. *. *. *. *
```

cpe:2.3:h:moxa:uc-8410a-lx:-:*:*:*:*:*:*:

```
cpe:2.3:o:moxa:uc-8410a-lx_firmware:2.2:*:*:*:*:*:*
```

cpe:2.3:h:moxa:uc-8410a-nw-lx:-:*:*:*:*:*:*:

```
cpe:2.3:o:moxa:uc-8410a-nw-lx_firmware:2.2:*:*:*:*:*:*
```

```
cpe:2.3:h:moxa:uc-8410a-nw-t-lx:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8410a-nw-t-lx_firmware:2.2:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8410a-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8410a-t-lx_firmware:2.2:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8540-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8540-lx_firmware:*:*:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8540-t-ct-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8540-t-ct-lx_firmware:*.:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8540-t-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8540-t-lx_firmware:*.*.*.*.*.*.*.*.:
```

```
cpe:2.3:h:moxa:uc-8580-lx:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8580-lx_firmware:1.1:::*.*.*.*.*
```

```
cpe:2.3:h:moxa:uc-8580-q-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8580-q-lx_firmware:1.1:*.~*~*~*~*~*~*
```

```
cpe:2.3:h:moxa:uc-8580-t-ct-lx:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8580-t-ct-lx_firmware:1.1:*:*:*:*:*.*
```

```
cpe:2.3:h:moxa:uc-8580-t-ct-q-lx:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8580-t-ct-q-lx_firmware:1.1:::*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8580-t-lx:-:*:*:*:*:*:
```

```
cpe:2.3:o:moxa:uc-8580-t-lx_firmware:1.1:*:*:*:*:*:
```

```
cpe:2.3:h:moxa:uc-8580-t-q-lx:-:*:*:*:*:*:
```

cpe:2.3:o:moxa:uc-8580-t-q-lx_firmware:1.1:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2023-1257 : An attacker with physical access to the affected Moxa UC Series devices can initiate a restart of t... twitter.com/i/web/status/1...	2023-03-07 17:08:40
 /r/netcve	CVE-2023-1257	2023-03-07 17:38:58

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