

DOCUMENT NUMBER: MTN-0050A-23-NA
APC: 147
ISSUE DATE: Aug-2023
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Motorola Solutions Technical Notification (MTN)

TITLE: Juniper SRX1500 and Juniper SRX345 router positions security firmware update 20.2X42.10

TECHNOLOGY: ASTRO 25

SYMPTOMS:

The following CVEs were resolved:

[CVE-2023-22396](#)

[CVE-2021-36690](#)

[CVE-2021-20227](#)

[CVE-2020-15358](#)

[CVE-2020-13871](#)

[CVE-2020-13632](#)

[CVE-2020-13631](#)

[CVE-2020-13435](#)

[CVE-2020-13434](#)

[CVE-2020-11655](#)

[CVE-2020-9327](#)

[CVE-2020-11656](#)

[CVE-2020-13630](#)

[CVE-2021-31364](#)

MODELS / SYSTEM RELEASES / KITS / DATECODES AFFECTED:

ASTRO releases: A7.18/A2019.2/A2020.x/A2021.1/A2022.x with Juniper SRX routers. This DOES NOT apply to the Juniper SRX on firewall positions.

SEVERITY RECOMMENDATION:

High / Safety - Security update not data/voice impacting

ROOT CAUSE:

Third party vendor software vulnerabilities

DEFINITIVE TEST:

User runs JunOS version 20.2X42.8 or older

WORKAROUNDS:

None

CORRECTIVE ACTIONS:

To obtain the latest security updates, upgrade Juniper SRX routers to the version listed below (or later).

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RESOLUTIONS AND REPAIR PROCEDURES:

Upgrade to the appropriate version as listed in the "PARTS REQUIRED (HARDWARE/SOFTWARE):" section below, based on the model number.

To obtain software:

- 1) Initiate a software request case through Motorola Solutions, Inc. Centralized Managed Support Operations (CMSO) at 800-MSI-HELP (800-674-4357) or 302-444-9800
- 2) Await confirmation email from Motorola Solutions Software Factory (MSSF) with instructions
- 3) Complete the Motorola Solutions Software Factory Software Order Form:
 - a) Reference **MTN-0050A-23-NA** in the 'Reason for Software/Hardware Change' section of the software order form.
 - b) List the part number (**KC #** as listed under "PARTS REQUIRED (HARDWARE/SOFTWARE):" below) in the 'Part # or Version #' section of the software order form.
- 4) Email completed Software Order Form to MSSF for processing

Order of upgrade:

1. Check your current UNC (Unified Network Configurator) and UEM (Unified Event Manager) version. If your system is running a version lower than listed in the section PARTS REQUIRED (HARDWARE/SOFTWARE) below, upgrade UNC and/or UEM to the minimum version specified below or later. Otherwise, go to the next step.
2. Generate TNCT configuration using the version listed below.
TNCT version is important due to the JunOS/TNCT configuration compatibility.
3. Upgrade Juniper SRX 1500 and SRX345 JunOS for all routers in the system.
Follow the order:
 - Edges (Even then Odd),
 - Prime Access Routers (Even, Odd)
 - Site Routers (Even, Odd)

For every router:

- a. Upgrade OS
- b. Deploy configuration
- c. Reboot router

TIME TO IMPLEMENT/SYSTEM IMPACT: - Juniper upgrade**Estimated time to implement - per machine** - depends on the router version up to 70 min**Medium** - time consuming but no loss of functionalities**TIME TO IMPLEMENT/SYSTEM IMPACT** - UEM upgrade (if applicable)**Estimated time to implement - per machine** - 30 - 60 minutes to install UEM**Low** - No loss of functionality (except for the UEM availability during the software installation)**TIME TO IMPLEMENT/SYSTEM IMPACT** - UNC upgrade (if applicable)**Estimated time to implement - per machine** - Approximately 1-2 hours for UNC upgrade**Medium** - time consuming but no loss of functionalities

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PARTS REQUIRED (HARDWARE/SOFTWARE):

A2022.HS/A2022.1:

| Product | Software Version | KC Number |
|--------------|--|--|
| UNC UNCDS | UNC-Astro-07.22.01.12-00 or later UNCDS-Astro-07.22.01.12-00 or later | KC877L0AT000220100 or later KC877L0AT000220150 or later |
| UEM | UEM-Astro-22.01.00.93 or later | KC877V0AW000220100 or later |
| MCTE | JunOS 20.2X42.10 TNCT Version: 26.106.00 or later | KC147V01M000071713 |

A2020.1/A2020.HS/A2021.1:

| Product | Software Version | KC Number |
|--------------|--|--|
| UNC UNCDS | UNC-Astro-07.20.03.84-00 or later UNCDS-Astro-07.20.03.84-00 or later | KC877L0AT000200106 or later KC877L0AT000200156 or later |
| UEM | UEM-Astro-20.01.04.83-00 or later | KC877V0AW000200105 or later |
| MCTE | JunOS 20.2X42.10 TNCT Version: 26.106.00 or later | KC147V01M000071713 |

A2019.2:

| Product | Software Version | KC Number |
|--------------|--|--|
| UNC UNCDS | UNC-Astro-07.19.03.58-00 or later UNCDS-Astro-07.19.03.58-00 or later | KC877L0AT000190210 or later KC877L0AT000190260 or later |
| UEM | UEM-Astro-19.02.10.01-00 or later | KC877V0AW000190206 or later |
| MCTE | JunOS 20.2X42.10 TNCT Version: 24.176.00 or later | KC147V01M000071713 |

A7.18:

| Product | Software Version | KC Number |
|--------------|--|--|
| UNC UNCDS | UNC-Astro-07.18.00.97-00 or later UNCDS-Astro-07.18.00.97-00 or later | KC877L0AT000718010 or later KC877L0AT000718060 or later |
| UEM | UEM-Astro-07.18.10.02-00 or later | KC877V0AW000718009 or later |
| MCTE | JunOS 20.2X42.10 TNCT Version: 24.176.00 or later | KC147V01M000071713 |

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ADDITIONAL INFORMATION:**NOTE 1**

This MTN applies to Juniper SRX devices on router positions in the ASTRO system. This DOES NOT apply to the Juniper SRX on firewall positions.

NOTE 2

Juniper SRX1500 upgrade time is 65 minutes, OS size: 1220 MB

Juniper SRX345 upgrade time is 20 minutes, OS size: 404 MB

For the reference:

GGM8000/S6000 upgrade time is 5 minutes, OS size: 7 MB

NOTE 3

Before Juniper upgrade, confirm that your system runs minimum UNC and UEM version listed in the section PARTS REQUIRED (HARDWARE/SOFTWARE) above.

NOTE 4

Juniper routers across the system must use the same version of the JunOS for all SRX1500s and SRX345s. It can be kept on different versions during the upgrade process (for a limited time).

REFERENCE THE FOLLOWING DOCUMENTS/PROCESSES FOR INSTALLATION PROCEDURES:

[Unified Network Configurator User Guide](#) - chapter Updating OS Images and Software on Devices

[Private Network Management Servers \(for appropriate release\)](#) - chapter Upgrading Linux-Based Virtual Machines

WHEN TO APPLY RESOLUTION:

During maintenance ☒_X_

As instructed ☐_X

LABOR ALLOWANCE:

This is an informational bulletin. No labor warranty is implied, intended or authorized for U.S. Domestic Partners/Customers. Other regions should follow their own standard procedures.

If, after attempting to perform the solution steps, you are having issues with the resolution in the MTN then please contact your MSI Technical support center.

https://www.motorolasolutions.com/en_us/support.html - for NALA customers

https://www.motorolasolutions.com/en_xu/support.html - for EMEA customers

https://www.motorolasolutions.com/en_xp/support.html - for APAC customer

SW ORDER FORM IS AVAILABLE UNDER THE LINK:

https://www.motorolasolutions.com/content/dam/msi/docs/robots/motorola-technical-notification/SW_order_form.pdf