UBports Forum

Security advisory: arbitrary root command execution and unauthenticated arbitrary-file-read-as-root in lomiri-download-manager

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peat_psuwit 11 days ago

Vulnerability

An unconfined application [^1] can contact system-level lomiri-download-manager and lomiri-upload-manager over DBus, allowing it to execute arbitrary command or to read any file on the device as root.

[^1]: most applications on Ubuntu Touch are under AppArmor confinement and are unable to exploit this vulnerability. However, on other distributions with Lomiri, most applications are likely unconfined.

Info

lomiri-download-manager and lomiri-upload-manager are DBus daemons which are available on both system bus and user bus. The system bus instance runs as root and is intended to serve system services, while the user bus instance runs as the logged-in user and is intended to serve user applications.

However, because of incorrect DBus policy configuration, the system bus instances of both services can be reached by an arbitrary user, which allows it to perform actions permitted by lomiri-download-manager or lomiri-upload-manager as root instead of as running user.

For lomiri-download-manager, it allows its user to execute arbitrary commands after the download is complete. Doing this with system-level instance means the attacker can run arbitrary command as root.

For lomiri-upload-manager, it allows its user to specify path to the file to upload. Doing this with system-level instance means the attacker can read arbitrary file as root, uploading it to an attacker-controlled server (which may be the local server opened by the attacker's app).

CVE-2026-96425 and CVE-2026-96424 are assigned to lomiri-download-manager and lomiri-upload-manager, respectively.

CWE-732: Incorrect Permission Assignment for Critical Resource

Severity: High

Affected versions

Affected versions:

1 out of 1

- All lomiri-download-manager versions up to and including 0.3.2
- All Ubuntu Touch versions up to and including 24.04-1.4, and Ubuntu Touch 24.04-2.0

Fixed in versions:

- lomiri-download-manager 0.3.3
- Ubuntu Touch 24.04-2.1 and 24.04-1.5

Solution

System-level lomiri-download-manager and lomiri-upload-manager is now locked down using DBus policy which disallow arbitrary users to access it. As a defense-in-depth, post-download command functionality is also disabled for system-level lomiri-download-manager.

- Fixed in: https://gitlab.com/ubports/development/core/lomiri-download-manager/-/commit/5fd50939a3cacef4181f6bcb58796bdcbc17984d
- Fixed in: https://gitlab.com/ubports/development/core/lomiri-download-manager/-/commit/779dfd5bbeb5fe8877627b772e5024e40eda38aa

Recommendations

- For Ubuntu Touch users, update your device to 24.04-2.1, 24.04-1.5, or later.
- For other distributions, ensure lomiri-download-manager is updated to version 0.3.3 or newer, or retrieve a patched version from your distributions.
- Do not download applications from untrusted source.
- For Ubuntu Touch users, make sure you trust the publisher of unconfined applications.

Timeline

The lomiri-download-manager issue was reported on our issue tracker on 6 August 2026, while the lomiri-upload-manager was subsequently reported on 8 August 2026.

The fix is included in lomiri-download-manager 0.3.3, released on 13 September 2026. After testing period, Ubuntu Touch 24.04-2.1 and 24.04-1.5 is released on 16 October 2026, coordinated with the publication of this advisory.

Credit:

- Reported-by: Don "Jake" Ellestad
- Patched-by: Maciej Sopyło

Thank you very much!

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