Cloudera Edge Management 1.5.0

# Cloudera Edge Management Release Notes

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# CLOUDᴲRA

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# Contents

# What's new in Edge Flow Manager

Edge Flow Manager (EFM) enables you to manage, control, and monitor agents that are deployed on the edge devices in IoT implementations. You can use these agents to collect real-time data originating from the devices to create and push actionable intelligence and insights to the place of data origin.

Edge Flow Manager 1.5.0 is a feature release that contains new features, performance improvements, and bug fixes, including:

**Manifest Refresh functionality**

> It is now possible to refresh the manifest behind an agent class. The manifest drives what kind of processors and services are available in the designer. Earlier if agents were upgraded to newer versions, existing flows in the flow designer did not reflect the new capabilities. With the manifest refresh functionality, you can refresh the manifest for existing flows. For more information, see Refreshing the agent manifest for existing flows.

**Automatic Agent cleanup**

> It is now possible to automatically clean up stale agents. So if an agent is decommissioned, it will not stay in the agent list as an offline agent forever. You can configure the timeout value globally and on agent class level as well. If timeout is not configured, the original behavior of never cleaning up missing agents is applied.

> Related properties:

> - efm.monitor.agentCleanupAfterInactivityDuration=1d
> - efm.monitor.agentCleanupAfterInactivityDurationForClass.[your\ class\ here]=6h

**Pushing Assets to Agents – S3 integration**

> This functionality is now generally available and can be used in production environments.

> You can push assets to the agents originated from an S3 bucket (previously the asset had to be manually placed on each EFM node), so the agent can download any arbitrary asset needed for a processor. For example, you can push enhanced Machine Learning models to support decision making on the edge. For more information, see Using Asset Push command.

**Support for flow.json publishing**

> With this new functionality, EFM is can serialize flows in JSON format, while maintaining backward compatibility. EFM can still serialize flows to YAML format as well depending on the supported formats of the agent.

> The following endpoint has changed: /flows/{id} – model class Flow now has a list of flow content objects instead of flow content / flow format field.

> If you have existing flows, you need to republish them so that the flow will be transformed to JSON format as well on the EFM side. This way new agents joining existing agent classes will be able to download in JSON format too.

> > **Note:** Support for flow.json is added for C++ agents from version 1.23.02. Implementation for Java agents will be available in a future release. If you use agent versions that do not support flow.json format, republish is not necessary.

**Removal of support for legacy MiNiFi Java releases**

> Cloudera no longer supports Legacy MiNiFi Java versions 0.6.0.1.3.1.0 or lower. If you use a legacy version, you should upgrade to version 1.22.07 or higher. For more information, see CEM component compatibility.

For more information on bug fixes, see Fixed issues.

# EFM download locations

Identify the Edge Flow Manager (EFM) repository location for your operating system and operational objectives.

**Note:** You must have credentials to download Edge Flow Manager (EFM) files. Your download credential is not the same as the credential you use to access the support portal.

You can get download credentials in the following ways:

- Contact your Cloudera sales representative.
- View the Welcome email for your Edge Management account.
- File a non-technical case on the Cloudera support portal for our Support team to assist you.

For detailed system requirements, and supported processors for EFM, see *System requirements for EFM*.

| Software | Location |
|----------|----------|
| EFM tar file | https://archive.cloudera.com/p/CEM/ubuntu20/1.x/updates/1.5.0.0/tars/efm/efm-1.5.0.0-96-bin.tar.gz |
| EFM zip file | https://archive.cloudera.com/p/CEM/ubuntu20/1.x/updates/1.5.0.0/tars/efm/efm-1.5.0.0-96-bin.zip |

# Unsupported features

The following EFM 1.5.0 features are not supported by Cloudera.

As of today, EFM is not FIPS compliant. Support for FIPS compliant cryptographic libraries will be added in the future.

# Fixed issues

Review the list of issues that are resolved in EFM 1.5.0.

Fixed issues in this release include:

- Addressed Spring Security and Apache Commons CVEs
- Added support for showing online agent count on Dashboard
- Removed Jersey and javax.ws.rs dependencies in favor of Spring REST
- Removed deprecated endpoints

    - /api/transfer (POST)
    - /api/flows/{flowId}/content (GET)
- Implemented many additional small improvements and stability fixes

# Known issues

Review the list of known issues in EFM 1.5.0.

Known issues in this release include:

- Browser back navigation does not work in parts of the EFM web app.
- EFM repository usage views do not show data or can be inaccurate.