

## Overview

This document describes the fogOS release naming convention and the types of software releases made available for various purposes. Additionally, it provides guidance on the criteria used for release selection that would suit the best for the respective deployments. The release-notes published for each software release provides a summary of integrated features / functionalities that should be used as a reference for selection of a suitable release for a specific deployment.

## Release Naming Convention

The software releases will be based upon following naming convention:

### Format:

fogOS<major>.<minor>.<patch>-[<update/hot-fixes>]\_[ENG-<unique-id>]

fogOSX.Y.Z-U

fogOSX.Y.Z\_ENG-E

### X: Major Release (Release Train)

This number is incremented when either (not limited to) there is significant change in the software architecture, API changes that are not backward compatible or introduction of new hardware support. This type of software release would follow “fogSM switchover upgrade” methodology involving database transformation. This can potentially induce a downtime to update the software on all connected fognodes.

Typically, releases are planned for every quarter, which may include 1-2 major releases.

The example below shows a Major Release from 1.x and 2.x release train.

e.g. fogOS1.3.4-01 → fogOS2.0.0-00

### Y: Minor Release

This release introduces new features and functions that are compatible with the earlier releases, still maintaining similar architecture.

This type of software release would follow “fogSM switchover upgrade” methodology, however may not involve database transformation. Thus this upgrade is less disruptive.

Typically, releases are planned for every quarter, which may include 2-4 minor releases.

e.g. fogOS1.2.2-09 → fogOS1.3.0-00

### Z: Patch Release (AKA maintenance release)

This release signifies an incremental release from the previous release, containing only defect fixes and no features. Patch release focuses on hardening the existing features and keeps code churn to a minimum. A patch release requires an “in-place fogSm upgrade” methodology and often does not require database transformation or fogNode software upgrade thus being least disruptive.

Typically, patch releases are done to address a set of critical defects found in a released image.

e.g. fogOS1.2.1-03 → fogOS1.2.2-00

The software release on the fognodes and the connected fogSM may differ in their patch release and is normal.

### U: Hot Patch Update Release

This release signifies a point fix built on top of a released image for specific defect or set of defects in a specific area to address a critical issue and provide a quick turnaround. As the intention of the fix is to provide quick turnaround, the testing will be focused on the specific defect validation and limited collateral testing. The fixes however will be carried forward in later major / minor / patch release and verified thoroughly.

Typically, hot-patch update releases are done on demand basis to address a critical deployment-stopper issue with a quick turnaround.

e.g. fogOS1.2.1-01 → fogOS1.2.1-02

### E: Engineering Release

This release is not intended for deployment in production and is mainly provided to the customer/partner for lab testing, evaluation OR proof-of-concept scenarios. The engineering releases are usually useful for scenarios where certain features may need some quick validation by the customer on the functionality / UI aspect OR in situation needing reproduction of an issue that can be recreated only at customer site. The number provided will have a matching entry in the readme-files that will list the contents of the release.

This type of images does not have any recommended upgrade path and is custom installed by the Nebbiolo Customer support team.

e.g. fogOS1.1.1\_ENG-01, fogOS2.1.1\_ENG-05

## Additional Notes

The release numbering will be sequential and goes with an assumption that the contents of the earlier releases will be inherited.

## Release Supportability:

It is recommended to upgrade to the latest train release that incorporates all the critical enhancements and fixes that improves the release performance.

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