

# Release Taxonomy

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Releases in the EdgeX Foundry Project are done according to the [semver.org](https://semver.org) taxonomy.<sup>1)</sup> In addition to the SemVer Semantic Versioning scheme, where we use MAJOR.MINOR.PATCH numbering, following the established guidance given in the SemVer specification, it is also strongly encouraged that projects should use the following tags, as permitted by SemVer:

- preview
- alpha
- beta
- rcN (release candidate N - where N is 1-n incremented for each candidate)
- snapshot-<sha> for interim, possible unstable builds<sup>2)</sup>

## preview

Not feature complete, but most functionality is implemented. Any missing functionality that is committed to the production release is identified, and there are specific people working on those features. Not heavily performance tuned, but performance testing has started with the first few hotspots identified and perhaps even addressed. No "highest priority" issues are in an open state. First-level developer documentation provided to help new developers with the learning curve.

## alpha

Feature complete, for all features committed to the production release. Ready for Proof of Concept-level deployments. Performance can be characterized in a predictable way, so that basic PoC's can be done within the bounds of published expectations. APIs are documented. First attempts at end-user documentation have been made. Developer documentation is further advanced. No "highest priority" issues are in an open state.

## beta

Feature complete for all features committed to the production release, perhaps with optional features when safe to add. Ready for Pilot-level engagements. Performance is very well characterized and active optimizations are being done, with a target set for the Production release. No "highest priority" or "high priority" bugs are in an open state. Developer documentation is complete; end-user documentation is mostly done.

## rcN

For a forthcoming production release, we will prepare multiple candidate releases intended to be heavily tested by the community. As we cycle through resolving uncovered issues, we will issue another when no remaining highest or high priority issues remain, and repeat until we feel confident in releasing a production release, with no qualifier. e.g. 1.0.

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<sup>1)</sup> Note that this is **not** about exiting from the incubator, though a beta or production release should not be made while still in incubation.

<sup>2)</sup> Further, for interim, possibly unstable builds working towards a tagged release, we will append the first seven (7) characters of the SHA-1 hash of the latest commit for the branch from which the build is produced, so that we can identify the commit level of a given test, etc. e.g. 0.6-snapshot-36e99cd

## Acknowledgements

The above leverages process utilized by the [Hyperledger Project](#).