

# Detailed Process Description

## Release Process

The release cycle for release 11.0.<n> starts its initial stage in the [jdk11u-dev](#) repository as soon as the previous release enters its second stage and is confined to the [jdk11u](#) repository. The starting point is tagged with `jdk11.0.<n>+0`. Once the previous release has happened, [jdk11u-dev](#) begins a cycle of being tagged on a weekly basis - when new changesets have been pushed - and the latest tag is promoted from [jdk11u-dev](#) to [jdk11u](#). The tags have the format of `jdk11.0.<n>+<build>`, where <n> is the placeholder for the update release and <build> is the monotonically increasing build number.

About 6 weeks before its release, or general availability (GA), an update release enters *Rampdown*. From that point onwards, the update release is stabilized by only accepting very select fixes in [jdk11u](#), such as regressions, high priority issues and test fixes. Tagging again takes place on a weekly basis - when changes have occurred - but this time, it occurs in the opposite direction, with [jdk11u](#) changes being integrated back to [jdk11u-dev](#). At the end of the month prior to the release month, a complete freeze will be announced for [jdk11u](#), allowing the maintainers of the security changes (currently Red Hat) to integrate these into the repository and perform final testing of the collected fixes in a secure, internal environment. On release day, the final batch of changes will be pushed to [jdk11u](#) and the final tags `jdk11.0.<n>+<build>` and `jdk11.0.<n>-ga` will be set. To complete the process, [jdk11u](#) changes are integrated back into [jdk11u-dev](#).

## Release Engineers Checklist (TODO: Update for Git)

When	What
Very early, e.g. 6 months before GA	Publish timeline on Wiki page
	Create release specific JBS filters, e.g. for monitoring backports to keep in sync with Oracle
Weekly During Initial Stage	Merge <a href="#">jdk11u-dev</a> to <a href="#">jdk11u</a> :  1. On <a href="#">jdk11u-dev</a> repository: <pre>hg pull -u hg tag jdk-11.0.&lt;n&gt;+&lt;build&gt;</pre> 2. On <a href="#">jdk11u</a> repository: <pre>hg pull &lt;jdk11u-dev repository location&gt; ... after successful testing ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk-updates/jdk11u</pre>
Rampdown	Announce (short) freeze of <a href="#">jdk11u-dev</a> for preparation of release 11.0.<n+1> on the mailing list
	Set status of <a href="#">jdk11u-dev</a> to "closed" and <a href="#">jdk11u</a> to "accepting fixes for 11.0.<n>" in Wiki
	Tag <a href="#">jdk11u-dev</a> with <code>jdk11.0.&lt;n+1&gt;+0</code> : <pre>hg pull -u hg tag jdk-11.0.&lt;n+1&gt;+0 hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk-updates/jdk11u-dev</pre>
	Request new JBS version 11.0.<n+1> and change of hgupdater settings for <a href="#">jdk11u-dev</a> codeline to honor new version on push
	Update JBS filter <a href="https://bugs.openjdk.java.net/issues/?filter=36558">https://bugs.openjdk.java.net/issues/?filter=36558</a> that shows eligible critical fixes Add version 11.0.<n> to <code>fixVersion</code>
	Create patch to bump the version in <a href="#">jdk11u-dev</a> to 11.0.<n+1>, look at <a href="#">JDK-8219710</a> for an example.
	Await confirmation for hgupdater change, then update Wiki to set status of <a href="#">jdk11u-dev</a> to "accepting changes for 11.0.<n+1>", announce opening of <a href="#">jdk11u-dev</a> for new release on mailing list
	Update <a href="https://bugs.openjdk.java.net/issues/?filter=36412">https://bugs.openjdk.java.net/issues/?filter=36412</a> that shows eligible fixes for pushing Add version 11.0.<n+1> to <code>fixVersion</code>

Weekly During Rampdown	<p>Tag jdk11u and merge back to jdk11u-dev:</p> <p>1. On jdk11u repository:</p> <pre>hg pull -u hg tag jdk-11.0.&lt;n&gt;+&lt;b&gt; ... after successful testing ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk-updates/jdk11u</pre> <p>2. On jdk11u-dev repository:</p> <pre>hg pull -u hg pull &lt;jdk11u repository location&gt; hg merge hg commit -m "Merge" ... after successful build ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk-updates/jdk11u-dev</pre>
Release day, once security changes and jdk-11.0.<n>-ga tag have been pushed	<p>Sync ga tag back to jdk11u-dev:</p> <p>1. On jdk11u repository:</p> <pre>hg pull -u</pre> <p>2. On jdk11u-dev repository:</p> <pre>hg pull -u hg pull &lt;jdk11u repository location&gt; hg merge hg commit -m "Merge" hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk-updates/jdk11u-dev</pre>
	Set status of jdk11u to "closed"
	Request new hgupdater setting for jdk11u codeline to honor version 11.0.<n+1> on push