

# Detailed Process Description

## Release Process

The release cycle for release 8u<n> starts its initial stage in the [jdk8u-dev](#) repository as soon as the previous release enters its second stage and is confined to the [jdk8u](#) repository. The starting point is tagged with `jdk8u<n>-b00`. Once the previous release has happened, `jdk8u-dev` begins a cycle of being tagged on a weekly basis - when new changesets have been pushed - and the latest tag is promoted from [jdk8u-dev](#) to [jdk8u](#). The tags have the format of `jdk8u<n>-b<build>`, where `<n>` is the placeholder for the update release and `<build>` is the monotonically increasing double digit 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 [jdk8u](#), 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 [jdk8u](#) changes being integrated back to [jdk8u-dev](#). At the end of the month prior to the release month, a complete freeze will be announced for [jdk8u](#), 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 [jdk8u](#) and the final tags `jdk8u<n>-b<build>` and `jdk8u<n>-ga` will be set. To complete the process, [jdk8u](#) changes are integrated back into [jdk8u-dev](#).

## Release Engineers Checklist

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 <code>jdk8u-dev</code> to <code>jdk8u</code> :  1. On <code>jdk8u-dev</code> repository (and all its subrepositories): <pre>hg pull -u hg tag jdk8u&lt;n&gt;-b&lt;build&gt;</pre> 2. On <code>jdk8u</code> repository (and all its subrepositories): <pre>hg pull &lt;jdk8u-dev repository location&gt;  ... after successful testing ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk8u/jdk8u{/subrepository}</pre>
Rampdown	Announce (short) freeze of <code>jdk8u-dev</code> for preparation of release 8u<release after n> on the mailing list
	Set status of <code>jdk8u-dev</code> to "closed" and <code>jdk8u</code> to "accepting fixes for 8u<n>" in Wiki
	Tag <code>jdk8u-dev</code> (and all its subrepositories) with <code>jdk8u&lt;release after n&gt;-b00</code> : <pre>hg pull -u hg tag jdk8u&lt;release after n&gt;-b00 hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk8u/jdk8u-dev{/subrepository}</pre>
	Request new JBS version <code>openjdk8u&lt;release after n&gt;</code> and change of <code>hgupdater</code> settings for <code>jdk8u-dev</code> codeline to honor new version on push
	Update JBS filter <a href="https://bugs.openjdk.java.net/issues/?filter=36562">https://bugs.openjdk.java.net/issues/?filter=36562</a> that shows eligible critical fixes Add version <code>openjdk8u&lt;n&gt;</code> to <code>fixVersion</code>
	Await confirmation for <code>hgupdater</code> change, then update Wiki to set status of <code>jdk8u-dev</code> to "accepting changes for 8u<release after n>", announce opening of <code>jdk8u-dev</code> for new release on mailing list
	Update <a href="https://bugs.openjdk.java.net/issues/?filter=36427">https://bugs.openjdk.java.net/issues/?filter=36427</a> that shows eligible fixes for pushing Add version <code>openjdk8u&lt;release after n&gt;</code> to <code>fixVersion</code>

<p>Weekly During Rampdown</p>	<p>Tag jdk8u and merge back to jdk8u-dev:</p> <p>1. On jdk8u (and all its subrepositories):</p> <pre>hg pull -u hg tag jdk8u&lt;n&gt;-b&lt;build&gt; ... after successful testing ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk8u/jdk8u{/subrepository}</pre> <p>2. On jdk8u-dev (and all its subrepositories):</p> <pre>hg pull -u hg pull &lt;jdk8u repository location&gt; hg merge hg commit -m "Merge" ... after successful build ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk8u/jdk8u-dev{/subrepository}</pre>
<p>Release day, once security changes and jdk8u&lt;n&gt;-ga tag have been pushed</p>	<p>Sync ga tag back to jdk8u-dev:</p> <p>1. On jdk8u (and all its subrepositories):</p> <pre>hg pull -u</pre> <p>2. On jdk8u-dev (and all its subrepositories):</p> <pre>hg pull -u hg pull &lt;jdk8u repository location&gt; hg merge hg commit -m "Merge" ... after successful build ... hg push ssh://&lt;userid&gt;@hg.openjdk.java.net/jdk8u/jdk8u-dev{/subrepository}</pre>
	<p>Set status of jdk8u to "closed"</p>
	<p>Request new hgupdater setting for jdk8u codeline to honor version openjdk8u&lt;release after n&gt; on push</p>