

# 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> :<br><br>1. On <code>jdk8u-dev</code> repository:<br><pre>git pull git tag -a jdk8u&lt;n&gt;-b&lt;build&gt;</pre><br>2. On <code>jdk8u</code> repository:<br><pre>git pull &lt;jdk8u-dev repository location&gt; ... after successful testing ... git push</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> with <code>jdk8u&lt;release after n&gt;-b00</code> :<br><pre>git pull git tag -a jdk8u&lt;release after n&gt;-b00 git push</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=39501">https://bugs.openjdk.java.net/issues/?filter=39501</a> that shows eligible critical fixes<br>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=39500">https://bugs.openjdk.java.net/issues/?filter=39500</a> that shows eligible fixes for pushing<br>Add version <code>openjdk8u&lt;release after n&gt;</code> to <code>fixVersion</code>  |

|  |   |
|--|---|
| Weekly During Rampdown   | <p>Tag jdk8u and merge back to jdk8u-dev:</p> <p>1. On jdk8u:</p> <pre>git pull -u git tag -a jdk8u&lt;n&gt;-b&lt;build&gt; ... after successful testing ... git push</pre> <p>2. On jdk8u-dev:</p> <pre>git pull git pull &lt;jdk8u repository location&gt; &lt;resolve any merge issues&gt; git commit -m "Merge" ... after successful build ... git push</pre> |
| Freeze   | <p>Announce freeze of jdk8u for preparation of release 8u&lt;n&gt; on the mailing list.</p> <p>No more changes will be added to the public tree before release day.</p> <p>Security changes will be prepared in private.</p>  |
|  | Set status of jdk8u to "closed" on the Wiki   |
| <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:</p> <pre>git pull</pre> <p>2. On jdk8u-dev:</p> <pre>git pull git pull &lt;jdk8u repository location&gt; &lt;resolve any merge issues&gt; git commit -m "Merge" ... after successful build ... git push</pre>   |
|  | Request new hgupdater setting for jdk8u codeline to honor version openjdk8u<release after n> on push  |