

z2-Environment - Bug #2073

Git locks may be left after crash and prevent update operation on z2 sync or startup

17.06.2020 10:07 - Henning Blohm

Status:	Resolved	Start date:	17.06.2020
Priority:	Normal	Due date:	
Assignee:	Henning Blohm	% Done:	0%
Category:	z2-core	Estimated time:	0.00 hour
Target version:	2.9		
origin:			

Description

Z2 uses JGit as Git client. JGit however (for compatibility reasons (?)) uses a file-based locking mechanism that does not make sure that locks of a process will be released upon termination of the process.

In crash situations that may lead to situations where z2, if using the git cr, cannot start up again.

Instead, exceptions like this will be thrown:

```
Caused by: org.eclipse.jgit.errors.LockFailedException: Cannot lock <...>/git/.git/index. Ensure t
hat no other process has an open file handle on the lock file <...>/git/.git/index.lock, then you
may delete the lock file and retry.
```

```
at org.eclipse.jgit.dircache.DirCache.lock(DirCache.java:251)
at org.eclipse.jgit.dircache.DirCache.lock(DirCache.java:328)
at org.eclipse.jgit.dircache.DirCache.lock(DirCache.java:294)
at org.eclipse.jgit.lib.Repository.lockDirCache(Repository.java:1205)
at org.eclipse.jgit.api.CheckoutCommand.call(CheckoutCommand.java:266)
... 45 more
```

Acceptance Criteria

- There is a safe process-owned file lock before accessing the repo storage using the Git client
- Before accessing, all *.lock files are found and removed from
 - ".git"
 - ".git/refs/heads"

References

- https://www.eclipse.org/forums/index.php?t=msg&th=1102984&goto=1823307&#msg_1823307

Background

Checking the JGit code base shows there is "index.lock" at .git and there is locking per ref.

Related issues:

Is duplicate of z2-Environment - Improvement #2061: Remove pending JGit locks... **Resolved** **30.03.2020**

History

#1 - 17.06.2020 10:33 - Henning Blohm

- Description updated

#2 - 17.06.2020 10:34 - Henning Blohm

- Description updated

#3 - 11.07.2021 11:49 - Henning Blohm

- Is duplicate of Improvement #2061: Remove pending JGit locks if found and lock access to Git repo of Git Component Repo with safe file lock added

#4 - 11.07.2021 11:49 - Henning Blohm

- Status changed from New to Resolved