

z2-Environment - Feature #1869

Allow alternative SVN client implementations for SVNCR

30.12.2014 12:17 - Udo Offermann

Status:	Resolved	Start date:	30.12.2014
Priority:	Normal	Due date:	
Assignee:	Udo Offermann	% Done:	100%
Category:	z2-core	Estimated time:	0.00 hour
Target version:	2.3.1		
origin:			
Description			
<p>Today com.zfabrik.boot.svnaccess uses SVNKit as SVN-client implementation. SVNKit's free of charge open-source license is not allowed for commercial use. Therefore we need an alternative SVN client implementation for business scenarios.</p> <p>The idea is to use SvnClientAdapter as high-level SVN-client API (Apache Licenece Version 2) which can be used with different implementations such as SVNKit, JavaHL and SVN command line client. The different implementations will be covered by variations of com.zfabrik.boot.svnaccess like com.zfabrik.boot.svnaccess.svnkit, com.zfabrik.boot.svnaccess.javahl and com.zfabrik.boot.svnaccess.cmdline.</p> <p>This issue contains the following steps:</p> <ol style="list-style-type: none">1. com.zfabrik.boot.svncr uses SvnClientAdapter as SVN client API2. All com.zfabrik.boot.svnaccess.xyz gets a private reference to com.zfabrik.boot.svncr and provide their specific implementation including all necessary libraries3. Furthermore all com.zfabrik.boot.svnaccess.xyz modules provide an any-component which establishes the access to the implementation. The component can be found by a specific property com.zfabrik.extension=com.zfabrik.svnaccess. The corresponding Resource-class returns the SvnClientAdapter interface when calling its as() method.4. com.zfabrik.boot.svncr queries for com.zfabrik.extension=com.zfabrik.svnaccess in order to retrieve the SvnClientAdapter interface.			
Related issues:			
Related to z2-Environment - Bug #1903: com.zfabrik.boot.svnaccess computes wr...		Resolved	17.06.2015

History

#1 - 30.12.2014 12:33 - Udo Offermann

- Description updated

#3 - 30.12.2014 13:47 - Udo Offermann

- Status changed from New to In Progress

#4 - 30.12.2014 19:04 - Udo Offermann

- % Done changed from 0 to 30

#5 - 09.01.2015 15:56 - Udo Offermann

How to SVN using WebDAV?

get latest revision, UUID and SVN repository root

Request

```
PROPFIND /svn/z2-environment/trunk/z2-base.base HTTP/1.1
Host: z2-environment.net
User-Agent: SVN/1.8.1 SVNKit/1.8.1 (http://svnkit.com/) r10101_v20131210_2023
Keep-Alive:
Connection: Keep-Alive
Content-Length: 0
Accept-Encoding: gzip
Content-Type: text/xml; charset="utf-8"
DAV: http://subversion.tigris.org/xmlns/dav/svn/depth
DAV: http://subversion.tigris.org/xmlns/dav/svn/mergeinfo
```

DAV: http://subversion.tigris.org/xmlns/dav/svn/log-revprops
Depth: 0

Response

HTTP/1.1 207 Multi-Status
Date: Fri, 09 Jan 2015 14:48:32 GMT
Server: Apache/2.2.14 (Ubuntu)
Vary: Accept-Encoding
Content-Length: 1366
Keep-Alive: timeout=15, max=100
Connection: Keep-Alive
Content-Type: text/xml; charset="utf-8"

```
<?xml version="1.0" encoding="utf-8"?>
<D:multistatus xmlns:D="DAV:">
  <D:response xmlns:S="http://subversion.tigris.org/xmlns/svn/" xmlns:C="http://subversion.tigris.org/xmlns/cu
stom/" xmlns:V="http://subversion.tigris.org/xmlns/dav/" xmlns:lp1="DAV:" xmlns:lp2="http://subversion.tigris.
org/xmlns/dav/">
    <D:href>/svn/z2-environment/trunk/z2-base.base/</D:href>
    <D:propstat>
      <D:prop>
        <S:ignore>.git</S:ignore>
        <lp1:resourcetype>
          <D:collection/>
        </lp1:resourcetype>
        <lp1:getcontenttype>text/html; charset=UTF-8</lp1:getcontenttype>
        <lp1:getetag>W/"133//trunk/z2-base.base"</lp1:getetag>
        <lp1:creationdate>2014-05-20T14:47:21.200217Z</lp1:creationdate>
        <lp1:getlastmodified>Tue, 20 May 2014 14:47:21 GMT</lp1:getlastmodified>
        <lp1:checked-in>
          <D:href>/svn/z2-environment/!svn/ver/133/trunk/z2-base.base</D:href>
        </lp1:checked-in>
        <lp1:version-controlled-configuration>
          <D:href>/svn/z2-environment/!svn/vcc/default</D:href> <----- ver
sion controlled configuration
        </lp1:version-controlled-configuration>
        <lp1:version-name>133</lp1:version-name> <----- lat
est revision
        <lp1:creator-displayname>zfabrik</lp1:creator-displayname>
        <lp2:baseline-relative-path>trunk/z2-base.base</lp2:baseline-relative-path> <----- SVN
relative path
        <lp2:repository-uuid>175cccd5-0b0a-40d5-a0dc-a981affa0124</lp2:repository-uuid> <----- UUI
D
        <lp2:deadprop-count>1</lp2:deadprop-count>
        <D:lockdiscovery/>
      </D:prop>
      <D:status>HTTP/1.1 200 OK</D:status>
    </D:propstat>
  </D:response>
</D:multistatus>
```

SVN GET-CONTENT

Request

GET /svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment/home.properties HTTP/1.1
Host: z2-environment.net
User-Agent: SVN/1.8.1 SVNKit/1.8.1 (http://svnkit.com/) r10101_v20131210_2023
Keep-Alive:
Connection: TE, Keep-Alive
TE: trailers
Content-Length: 0
Accept-Encoding: gzip
Content-Type: text/xml; charset="utf-8"
DAV: http://subversion.tigris.org/xmlns/dav/svn/depth
DAV: http://subversion.tigris.org/xmlns/dav/svn/mergeinfo
DAV: http://subversion.tigris.org/xmlns/dav/svn/log-revprops

Response

HTTP/1.1 200 OK
Date: Tue, 13 Jan 2015 11:51:21 GMT
Server: Apache/2.2.14 (Ubuntu)

Last-Modified: Wed, 26 Sep 2012 14:24:11 GMT
ETag: "17//trunk/z2-base.base/environment/home.properties"
Accept-Ranges: bytes
Vary: Accept-Encoding
Content-Length: 84
Keep-Alive: timeout=15, max=100
Connection: Keep-Alive
Content-Type: text/plain

com.zfabrik.component.type=com.zfabrik.homeLayout
home.workers=environment/webWorker

SVN LIST

Request

PROPFIND /svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment HTTP/1.1
Host: z2-environment.net
User-Agent: SVN/1.8.1 SVNKit/1.8.1 (http://svnkit.com/) r10101_v20131210_2023
Keep-Alive:
Connection: Keep-Alive
Content-Length: 319
Accept-Encoding: gzip
Content-Type: text/xml; charset="utf-8"
DAV: http://subversion.tigris.org/xmlns/dav/svn/depth
DAV: http://subversion.tigris.org/xmlns/dav/svn/mergeinfo
DAV: http://subversion.tigris.org/xmlns/dav/svn/log-revprops
Depth: 1

```
<?xml version="1.0" encoding="UTF-8"?>
<propfind xmlns="DAV:">
  <prop><resourcetype xmlns="DAV:"/>
  <getcontentlength xmlns="DAV:"/>
  <deadprop-count xmlns="http://subversion.tigris.org/xmlns/dav/"/>
  <version-name xmlns="DAV:"/>
  <creationdate xmlns="DAV:"/>
  <creator-displayname xmlns="DAV:"/>
</prop>
</propfind>
```

Response

HTTP/1.1 207 Multi-Status
Date: Fri, 09 Jan 2015 14:58:36 GMT
Server: Apache/2.2.14 (Ubuntu)
Vary: Accept-Encoding
Content-Length: 24200
Keep-Alive: timeout=15, max=100
Connection: Keep-Alive
Content-Type: text/xml; charset="utf-8"

```
<?xml version="1.0" encoding="utf-8"?>
<D:multistatus xmlns:D="DAV:" xmlns:ns1="http://subversion.tigris.org/xmlns/dav/" xmlns:ns0="DAV:">
  <D:response xmlns:lp1="DAV:" xmlns:lp2="http://subversion.tigris.org/xmlns/dav/" xmlns:g0="DAV:">
    <D:href>/svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment/</D:href> <-----
  dir entry
    <D:propstat>
      <D:prop>
        <lp1:resourcetype>
          <D:collection/> <-----
      it's a directory
        </lp1:resourcetype>
        <lp2:deadprop-count>0</lp2:deadprop-count>
        <lp1:version-name>133</lp1:version-name>
        <lp1:creationdate>2014-05-20T14:47:21.200217Z</lp1:creationdate>
        <lp1:creator-displayname>zfabrik</lp1:creator-displayname>
      </D:prop>
      <D:status>HTTP/1.1 200 OK</D:status>
    </D:propstat>
    <D:propstat>
      <D:prop>
        <g0:getcontentlength/>
      </D:prop>
      <D:status>HTTP/1.1 404 Not Found</D:status>
```

```

</D:propstat>
</D:response>
<D:response xmlns:lp1="DAV:" xmlns:lp2="http://subversion.tigris.org/xmlns/dav/" xmlns:g0="DAV:">
  <D:href>/svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment/log4j/</D:href>
  <D:propstat>
    <D:prop>
      <lp1:resourcetype>
        <D:collection/>
      </lp1:resourcetype>
      <lp2:deadprop-count>0</lp2:deadprop-count>
      <lp1:version-name>17</lp1:version-name>
      <lp1:creationdate>2012-09-26T14:24:11.458431Z</lp1:creationdate>
      <lp1:creator-displayname>udoo</lp1:creator-displayname>
    </D:prop>
    <D:status>HTTP/1.1 200 OK</D:status>
  </D:propstat>
  <D:propstat>
    <D:prop>
      <g0:getcontentlength/>
    </D:prop>
    <D:status>HTTP/1.1 404 Not Found</D:status>
  </D:propstat>
</D:response>
<D:response xmlns:lp1="DAV:" xmlns:lp2="http://subversion.tigris.org/xmlns/dav/" xmlns:g0="DAV:">
  <D:href>/svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment/webUsers/</D:href>
  <D:propstat>
    <D:prop>
      <lp1:resourcetype>
        <D:collection/>
      </lp1:resourcetype>
      <lp2:deadprop-count>0</lp2:deadprop-count>
      <lp1:version-name>65</lp1:version-name>
      <lp1:creationdate>2012-12-11T15:26:46.279846Z</lp1:creationdate>
      <lp1:creator-displayname>udoo</lp1:creator-displayname>
    </D:prop>
    <D:status>HTTP/1.1 200 OK</D:status>
  </D:propstat>
  <D:propstat>
    <D:prop>
      <g0:getcontentlength/>
    </D:prop>
    <D:status>HTTP/1.1 404 Not Found</D:status>
  </D:propstat>
</D:response>
<D:response xmlns:lp1="DAV:" xmlns:lp2="http://subversion.tigris.org/xmlns/dav/">
  <D:href>/svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment/.classpath</D:href> <-----
dir entry
  <D:propstat>
    <D:prop>
      <lp1:resourcetype/> <-----
it's a file
      <lp1:getcontentlength>240</lp1:getcontentlength>
      <lp2:deadprop-count>0</lp2:deadprop-count>
      <lp1:version-name>17</lp1:version-name>
      <lp1:creationdate>2012-09-26T14:24:11.458431Z</lp1:creationdate>
      <lp1:creator-displayname>udoo</lp1:creator-displayname>
    </D:prop>
    <D:status>HTTP/1.1 200 OK</D:status>
  </D:propstat>
</D:response>

```

SVN LOG

Request

```

REPORT /svn/z2-environment/!svn/bc/166/trunk/z2-base.base/environment HTTP/1.1
Host: z2-environment.net
User-Agent: SVN/1.8.1 SVNKit/1.8.1 (http://svnkit.com/) r10101_v20131210_2023
Keep-Alive:
Connection: TE, Keep-Alive
TE: trailers
Content-Length: 335
Accept-Encoding: gzip
Content-Type: text/xml; charset="utf-8"
DAV: http://subversion.tigris.org/xmlns/dav/svn/depth

```

DAV: http://subversion.tigris.org/xmlns/dav/svn/mergeinfo
DAV: http://subversion.tigris.org/xmlns/dav/svn/log-revprops
Accept-Encoding: svndiff;q=0.9,svndiff;q=0.8

```
<?xml version="1.0" encoding="UTF-8"?>
<S:log-report xmlns:S="svn:">
  <S:start-revision>166</S:start-revision>
  <S:end-revision>0</S:end-revision>
  <S:limit>26</S:limit>
  <S:discover-changed-paths/>
  <S:revprop>svn:author</S:revprop>
  <S:revprop>svn:date</S:revprop>
  <S:revprop>svn:log</S:revprop>
  <S:path></S:path>
</S:log-report>
```

Response

HTTP/1.1 200 OK
Date: Fri, 09 Jan 2015 15:10:46 GMT
Server: Apache/2.2.14 (Ubuntu)
Vary: Accept-Encoding
Keep-Alive: timeout=15, max=100
Connection: Keep-Alive
Content-Type: text/xml; charset="utf-8"
Content-Length: 289951

```
<?xml version="1.0" encoding="utf-8"?>
<S:log-report xmlns:S="svn:" xmlns:D="DAV:">
  <S:log-item>
    <D:version-name>133</D:version-name>
    <D:comment>transport from http://git.z2-environment.net/z2-base.base#master at Tue May 20 16:47:19 CEST 20
14, epoch=1400597239...</D:comment>
    <D:creator-displayname>zfabrik</D:creator-displayname>
    <S:date>2014-05-20T14:47:21.200217Z</S:date>
    <S:added-path node-kind="dir">/trunk/z2-base.base/com.zfabrik.mvncr/java/bin.impl</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/bin.impl/lib/plexus-classworlds-
2.4.jar</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/bin.impl/lib/plexus-component-annota-
tions-1.5.5.jar</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/bin.impl/lib/httpclient-4.2.6.jar<
r</S:added-path>
    <S:deleted-path node-kind="dir">/trunk/z2-base.base/org.hibernate</S:deleted-path>
    <S:added-path node-kind="dir">/trunk/z2-base.base/com.zfabrik.mvncr/java/src.test/com/zfabrik/test/mvncr</
S:added-path>
    <S:added-path node-kind="dir">/trunk/z2-base.base/com.zfabrik.components/java/src.impl/com/zfabrik/impl/co
mponents/properties</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/src.impl/com/zfabrik/impl/mvncr/
util/LoggingTransferListener.java</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/src.impl/com/zfabrik/impl/mvncr/
ArtifactResolver.java</S:added-path>
    <S:added-path node-kind="dir">/trunk/z2-base.base/com.zfabrik.mvncr/java/src.test/com</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/.gitignore</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/src.test/com/zfabrik/test/mvncr/
DownloadArtifactFromMavenRepo.java</S:added-path>
    <S:added-path node-kind="file">/trunk/z2-base.base/com.zfabrik.mvncr/java/bin.impl/lib/httpcore-4.2.5.jar<
/S:added-path>
    <S:modified-path node-kind="file">/trunk/z2-base.base/environment/coreRevisionCheck.properties</S:modified
-path>
    ...
```

SVN Export

Request

REPORT /svn/z2-environment/!svn/vcc/default HTTP/1.1
Host: z2-environment.net
User-Agent: SVN/1.8.1 SVNKit/1.8.1 (http://svnkit.com/) r10101_v20131210_2023
Keep-Alive:
Connection: Keep-Alive
Content-Length: 350
Content-Type: text/xml; charset="ascii"
DAV: http://subversion.tigris.org/xmlns/dav/svn/depth
DAV: http://subversion.tigris.org/xmlns/dav/svn/mergeinfo

DAV: http://subversion.tigris.org/xmlns/dav/svn/log-revprops

```
<?xml version="1.0" encoding="UTF-8"?>
<S:update-report xmlns:S="svn:" send-all="true">
  <S:src-path>http://z2-environment.net/svn/z2-environment/trunk/z2-base.base/environment</S:src-path>
  <S:target-revision>166</S:target-revision>
  <S:depth>infinity</S:depth>
  <S:entry start-empty="true" rev="166" depth="infinity"></S:entry>
</S:update-report>
```

Response

HTTP/1.1 200 OK
Date: Fri, 09 Jan 2015 16:16:36 GMT
Server: Apache/2.2.14 (Ubuntu)
Vary: Accept-Encoding
Keep-Alive: timeout=15, max=100
Connection: Keep-Alive
Content-Type: text/xml; charset="utf-8"
Content-Length: 69077

```
<?xml version="1.0" encoding="utf-8"?>
<S:update-report xmlns:S="svn:" xmlns:V="http://subversion.tigris.org/xmlns/dav/" xmlns:D="DAV:" send-all="true">
  <S:target-revision rev="166"/>
  <S:open-directory rev="166">
    <D:checked-in>
      <D:href>/svn/z2-environment/!svn/ver/133/trunk/z2-base.base/environment</D:href>
    </D:checked-in>
    <S:set-prop name="svn:entry:committed-rev">133</S:set-prop>
    <S:set-prop name="svn:entry:committed-date">2014-05-20T14:47:21.200217Z</S:set-prop>
    <S:set-prop name="svn:entry:last-author">zfabrik</S:set-prop>
    <S:set-prop name="svn:entry:uuid">175cccd5-0b0a-40d5-a0dc-a981affa0124</S:set-prop>
    <S:add-directory name="log4j" bc-url="/svn/z2-environment/!svn/bc/17/trunk/z2-base.base/environment/log4j"
  >
    <D:checked-in>
      <D:href>/svn/z2-environment/!svn/ver/17/trunk/z2-base.base/environment/log4j</D:href>
    </D:checked-in>
    <S:set-prop name="svn:entry:committed-rev">17</S:set-prop>
    <S:set-prop name="svn:entry:committed-date">2012-09-26T14:24:11.458431Z</S:set-prop>
    <S:set-prop name="svn:entry:last-author">udoo</S:set-prop>
    <S:set-prop name="svn:entry:uuid">175cccd5-0b0a-40d5-a0dc-a981affa0124</S:set-prop>
    <S:add-file name="z.properties">
      <D:checked-in>
        <D:href>/svn/z2-environment/!svn/ver/17/trunk/z2-base.base/environment/log4j/z.properties</D:href>
      </D:checked-in>
      <S:set-prop name="svn:entry:committed-rev">17</S:set-prop>
      <S:set-prop name="svn:entry:committed-date">2012-09-26T14:24:11.458431Z</S:set-prop>
      <S:set-prop name="svn:entry:last-author">udoo</S:set-prop>
      <S:set-prop name="svn:entry:uuid">175cccd5-0b0a-40d5-a0dc-a981affa0124</S:set-prop>
      <S:txdelta>U1ZOAAAAGQMDhQOAgQNjb20uemZhYnJpay5jb21wb25lbnQudHlwZTlvcmcuYXBhY2hlLmXvZzRq
    <---- base-64 encoded -
      LmNvbWZpZ3VyYXRpb24KCgpjb20uemZhYnJpay5zeXN0ZW1TdGF0ZXMucGFydG1jaXBhdGlvbWVj1j
      first 14 bytes are checksum if starting with
      b20uemZhYnJpay5ib290LmlhaW4vd29ya2VyX3VwCg==</S:txdelta>
      53 56 4E 00 00 00
    <S:prop>
      <V:md5-checksum>ac1b7e89715d841db160e48104173ee1</V:md5-checksum>
    </S:prop>
  </S:add-file>
  <S:add-file name="log4j.properties">
    <D:checked-in>
      <D:href>/svn/z2-environment/!svn/ver/17/trunk/z2-base.base/environment/log4j/log4j.properties</D:hre
  f>
    </D:checked-in>
    <S:set-prop name="svn:entry:committed-rev">17</S:set-prop>
    <S:set-prop name="svn:entry:committed-date">2012-09-26T14:24:11.458431Z</S:set-prop>
    <S:set-prop name="svn:entry:last-author">udoo</S:set-prop>
    <S:set-prop name="svn:entry:uuid">175cccd5-0b0a-40d5-a0dc-a981affa0124</S:set-prop>
    <S:txdelta>U1ZOAAAAhCMDhCOAhCMjICoqKioqIFNldCByb290IGxvZ2dldiBsZXZlbnCBhbmQgaXRzIG9ubHkg
      YXBwZW5kZXIgdG8gQS4KbG9nNGoucm9vdExvZ2dldj1XQVJOLCBBCgojICoqKioqIEEgaXMgc2V0
      IHRvIGJlIGEGq29uc29sZUFwcGVuZGVyLgpb2c0ai5hcHB1bmRlci5BPW9yZy5hcGFjaGUubG9n
      NGouQ29uc29sZUFwcGVuZGVyCiMgKioqKioqQSBlc2VzIFBhdHRlcm5MYXlvdXQuCmxvZzRqLmFw
      cGVuZGVyLkEubGF5b3V0PW9yZy5hcGFjaGUubG9nNGouUGF0dGVybkhxW91dApsb2c0ai5hcHB1
      bmRlci5BLmXheW91dC5Db252ZXJzaW9uUGF0dGVybj01LTVwICVjICV4IC0gJW01bgoKIwojIGp1
```

```
dHR5IGxvZ2dpbmcgY29uZmlnIChkZWZhdWx0cyB0byBhdCBsZWZzZCBzZWUgdmVyc2lubiBhbmQg
Y29ubmVjdG9yKQojCiMgbG9nNGoubG9nZ2VyLm9yZy5lY2xpcHNlLmpldHR5PURFQ1VHCmXvZzRq
LmxvZ2dldci5vcmcuZWNSaXBzZS5qZXR0eS5zZXJ2ZXIuU2VydmVyPULORk8KbG9nNGoubG9nZ2Vy
Lm9yZy5lY2xpcHNlLmpldHR5LnNlcnZlci5BYnN0cmFjdENvbm5lY3Rvcj1JTkZP</S:txdelta>
<S:prop>
  <V:md5-checksum>536829049c7b4ce03fe8d7faea93d5bd</V:md5-checksum>
</S:prop>
</S:add-file>
<S:prop></S:prop>
</S:add-directory>
<S:add-directory name="webUsers" bc-url="/svn/z2-environment/!svn/bc/65/trunk/z2-base.base/environment/web
Users">
```

...

#6 - 23.02.2015 15:53 - Udo Offermann

- Status changed from *In Progress* to *Resolved*

#7 - 23.02.2015 15:53 - Udo Offermann

- % Done changed from 30 to 100

#8 - 17.06.2015 18:16 - Udo Offermann

- Related to Bug #1903: *com.zfabrik.boot.svnaccess* computes wrong base-line revision for branches added

#9 - 08.09.2015 09:55 - Henning Blohm

- Target version set to 2.3.1