

EDIT - feature request #8931

Taxeditor supports https

04/03/2020 10:36 AM - Andreas Kohlbecker

Status:	Closed	Start date:	
Priority:	Highest	Due date:	
Assignee:	Andreas Kohlbecker	% Done:	100%
Category:	taxeditor	Estimated time:	0:00 hour
Target version:	Release 5.15		
Severity:	normal		
Description			
The Taxeditor seems not able to connect cdm instances via https.			
With this configuration:			
<pre>{ "name" : "edit-test", "server" : "test.e-taxonomy.eu", "port" : 443, "prefix" : "cdmserver/", "ignoreCdmLibVersion" : true },</pre>			
the connection fails because the taxeditor attempts to connect with HTTP instead of HTTPS. The Server response:			
<pre><!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN"> <html><head> <title>400 Bad Request</title> </head><body> <h1>Bad Request</h1> <p>Your browser sent a request that this server could not understand.
 Reason: You're speaking plain HTTP to an SSL-enabled server port.
 Instead use the HTTPS scheme to access this URL, please.
 </p> <hr> <address>Apache/2.4.10 (Debian) Server at test.e-taxonomy.eu Port 443</address> </body></html></pre>			
Conclusions:			
<ol style="list-style-type: none">1. The Taxeditor should be able to detect the required protocol that is to recover from such protocol failures by using the correct protocol after such errors.2. When the server redirects the editor from port 80 (http) to port 443 (https) the editor must follow the redirect and must use the correct protocol (see point 1.)3. Redirects from port 443 (https) to 80 (http) must work also4. The taxeditor needs a place to store information on the required protocol. data on connections is stored in .cdmLibrary/cdm_remote_servers.json the json object needs to be extended by a protocol field. The taxeditor should update the connection infotmation when a server redirects from http to https or vice verca.5. Configuration of HTTP connection is done at two places separately. (CdmApplicationRemoteConfiguration, CdmServerInfo) There should be a central point for this.			
<pre>{ "name" : "edit-test", "server" : "test.e-taxonomy.eu", "protocol": "https" "port" : 443, "prefix" : "cdmserver/", "ignoreCdmLibVersion" : true },</pre>			
Related issues:			
Related to EDIT - feature request #9840: Add the possibility to enter new ser...		Duplicate	

Associated revisions

Revision 70fa5baf - 04/06/2020 08:25 AM - Andreas Kohlbecker

ref #8931 using https for port 443

History

#1 - 04/03/2020 10:50 AM - Andreas Müller

- Target version changed from Unassigned CDM tickets to Release 5.15

#2 - 04/06/2020 08:29 AM - Andreas Kohlbecker

- Assignee changed from Katja Luther to Andreas Kohlbecker

- Target version changed from Release 5.15 to Release 5.14

- % Done changed from 0 to 10

Connecting the test server (test.e-taxonomy.eu) via https fails with:

```
....
Caused by: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpat
h.SunCertPathBuilderException: unable to find valid certification path to requested target
    at sun.security.validator.PKIXValidator.doBuild(PKIXValidator.java:387)
    at sun.security.validator.PKIXValidator.engineValidate(PKIXValidator.java:230)
    at sun.security.validator.Validator.validate(Validator.java:260)
    at sun.security.ssl.X509TrustManagerImpl.validate(X509TrustManagerImpl.java:324)
    at sun.security.ssl.X509TrustManagerImpl.checkTrusted(X509TrustManagerImpl.java:229)
    at sun.security.ssl.X509TrustManagerImpl.checkServerTrusted(X509TrustManagerImpl.java:124)
    at sun.security.ssl.ClientHandshaker.serverCertificate(ClientHandshaker.java:1496)
    ... 75 more
Caused by: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path
to requested target
    at sun.security.provider.certpath.SunCertPathBuilder.build(SunCertPathBuilder.java:141)
    at sun.security.provider.certpath.SunCertPathBuilder.engineBuild(SunCertPathBuilder.java:126)
    at java.security.cert.CertPathBuilder.build(CertPathBuilder.java:280)
    at sun.securit
```

This is most probably caused by java 8 not bringing the latest root certificates (see <https://stackoverflow.com/questions/9619030/resolving-javax-net-ssl-sslhandshakeexception-sun-security-validator-validators>)

#3 - 04/06/2020 09:23 AM - Andreas Kohlbecker

Atlassian provides detailed information on this problem at

<https://confluence.atlassian.com/kb/unable-to-connect-to-ssl-services-due-to-pkix-path-building-failed-error-779355358.html>

and has a nice little class which helps test servers:

```
$JAVA_HOME/bin/java SSLPoke server.example.com 443
```

#4 - 04/06/2020 10:06 AM - Andreas Kohlbecker

- Description updated

- Target version changed from Release 5.14 to Release 5.15

There are no problems connecting the production server api.cybertaxonomy.org:443

So the problem above seems rather to be a configuration or certificate problem of test.e-taxonomy.eu

Connecting the Taxeditor via HTTPS basically works now, so that it can be used when the connection is configured properly. This however requires manually adapting .cdmLibrary\cdm_remote_servers.json which is not an option for general users.

Therefore I am moving this ticket to the next milestone now

#5 - 06/23/2020 02:00 PM - Andreas Müller

- Target version changed from Release 5.15 to Release 5.18

#6 - 12/01/2020 03:16 PM - Andreas Kohlbecker

- Target version changed from Release 5.18 to Release 5.19

#7 - 01/27/2021 03:19 PM - Andreas Kohlbecker

- Target version changed from Release 5.19 to Release 5.21

#8 - 03/10/2021 02:54 PM - Andreas Müller

- Target version changed from Release 5.21 to Release 5.22

#9 - 04/19/2021 04:34 PM - Andreas Kohlbecker

- Target version changed from Release 5.22 to Release 5.46

#10 - 11/18/2021 02:55 PM - Andreas Müller

- Related to feature request #9840: Add the possibility to enter new server added

#12 - 11/18/2021 03:00 PM - Andreas Müller

- Status changed from New to Feedback

- Target version changed from Release 5.46 to Release 5.45

- % Done changed from 10 to 50

Andreas Kohlbecker wrote:

There are no problems connecting the production server `api.cybertaxonomy.org:443`

So the problem above seems rather to be a configuration or certificate problem of `test.e-taxonomy.eu`

Connecting the Taxeditor via HTTPS basically works now, so that it can be used when the connection is configured properly. This however requires manually adapting `.cdmLibrary\cdm_remote_servers.json` which is not an option for general users.

Therefore I am moving this ticket to the next milestone now

I guess the open issue is handled in [#9840](#) and we can close this ticket?

#13 - 11/18/2021 03:45 PM - Andreas Kohlbecker

- Status changed from Feedback to Closed

- % Done changed from 50 to 100

#14 - 11/18/2021 03:49 PM - Andreas Kohlbecker

- Target version changed from Release 5.45 to Release 5.15

i think we should move this ticket back to 5.15 or even to 5.14