

Installation instructions for Debug Tool Code Coverage Analytic Facility Technical Preview

Requirements :

- a. Debug Tool Code Coverage extension for the Common Component Server listening on port 5899. Instructions for the extension installation are included at the end of this file.
- b. Java 6 or later.
- c. IBM Debug Tool for z/OS Version 13 PTF UI23882 (APAR PI29800).

Installation :

1. Create a HFS directory in which to install the preview. This is your code coverage base directory (in the following example, our base directory will be /u/userid/CCWeb).

ex. HOSTNAME:/u/userid>mkdir CCWeb

2. FTP the included eqaccpax.pax file into this directory (as a binary).

ex. ftp> binary
200 Representation type is Image
ftp> cd /u/userid/CCWeb
250 HFS directory /u/userid/CCWeb is the current working directory
ftp> put eqaccpax.pax
200 Port request OK.
125 Storing data set /u/userid/CCWeb/eqaccpax.pax
250 Transfer completed successfully.

3. Modify and submit the included EQACCWLP JCL (change SRVRPATH to the code coverage base directory, and make any necessary JOB parameter changes). This will unpack the eqaccpax.pax archive and create a new /wlp subdirectory in the code coverage base directory.

(optional step). By default, the Debug Tool Code Coverage Analytic Facility server is setup to create a new keystore and certificate for SSL communication. If you would like to use a different keystore for authentication, open the ASCII server.xml file located in the /wlp/usr/servers/DebugToolCodeCoverage subdirectory of the code coverage base directory and edit the keystore service object entry. Additional details for this step can be found here :
http://www-01.ibm.com/support/knowledgecenter/was_beta_liberty/com.ibm.websphe.re.wlp.nd.multiplatform.doc/ae/twlp_sec_ssl.html

4. Start the Debug Tool Code Coverage Analytic Facility server by issuing a 'server start DebugToolCodeCoverage' command from the new /wlp/bin subdirectory of the code coverage base directory.

```
ex. HOSTNAME:/u/userid>cd /u/userid/CCWeb/wlp/bin
HOSTNAME:/u/userid/CCWeb/wlp/bin>server start DebugToolCodeCoverage
Starting server DebugToolCodeCoverage.
Server DebugToolCodeCoverage started with process ID 1234.
```

5. The web service should now be available on port 9444 at /CodeCoveragereportGen/

```
ex. https://HOSTNAME.IBM.COM:9444/CodeCoveragereportGen
```

If you are using the default keystore, you may be warned that the certificate is unsigned.

To stop the Debug Tool Code Coverage Analytic Facility server, issue a 'server stop DebugToolCodeCoverage' command from the new /wlp/bin subdirectory of the code coverage base directory.

```
ex. HOSTNAME:/u/userid>cd /u/userid/CCWeb/wlp/bin
HOSTNAME:/u/userid/CCWeb/wlp/bin>server stop DebugToolCodeCoverage
Server DebugToolCodeCoverage stopped.
```

Installing and configuring the Debug Tool Code Coverage and Load Module Analyzer extensions of the Common Component Server

If you plan to use the new code coverage plug-in and the load module analyzer plug-in, you need to configure the plug-in host extensions in the common component server.

You must create a configuration file for each of the Debug Tool extensions of the Common Component Server, and then specify the location of the configuration file to the server to enable communication between the Debug Tool views and your z/OS system.

To configure the Debug Tool extensions of the Common Component Server, do the following steps:

1. Create a configuration file for each of the extensions

A sample job that creates and updates the configuration data set is provided in the hlq.SEQASAMP(EQAWCCFG) data set. Follow the instructions in the prolog and replace the in-stream data in SYSUT1 DD with the configuration statements below.

```
For the code coverage extension,
CONFIG=CC
SPAWN_PROGRAM=EQACCINT
SPAWN_STEPLIB=hlq.SEQAMOD
```

```
For the load module analyzer extension,  
CONFIG=LM  
SPAWN_PROGRAM=EQALMINT  
SPAWN_STEPLIB=hlq.SEQAMOD  
SPAWN_PARMS_SECTION  
SPAWN_DD=EQASYSPPF=hlq.SEQATLIB(EQALMPFX)  
SPAWN_DD=EQAPGMNM=hlq.SEQATLIB(EQALMPGM)
```

Note: replace the high level qualifier (hlq.) with the high level qualifier of the installed Debug Tool data set name.

2. Modify the common server started proc IPVSRV1

2.1 Add the data sets to the CONFIG DD statement concatenation.

2.2 This technical preview requires the Common Component Server to use port 5899. Change the PORT setting to 5899.

2.3 Increase the region size of of the IPVSRV1 proc definition to 200M or 0M.

```
ex. //RUN EXEC PGM=IPVSRV,REGION=200M,
```

2.4 Stop and restart the Common Component Server