

SAS Drug Development API 1.7.1

Installation Qualification / Operational Qualification Checklist

Install SDD API 1.7.1

**Version 1.00**

**Date March 28, 2014**

Checklist A: “Install SDD API”

***Note:*** This checklist assumes you have completed an installation of SDD and are installing or upgrading the SDD API.

| Checklist A: “Install SDD API” | **Corresponding Document:** *None* |
| --- | --- |
| ***#*** | ***Activity*** | ***Expected Results*** | ***Actual Results*** |
|  | Login to an admin PC. | Windows display appears. |  |
|  | Using the putty tool, create an **ssh** connection from the admin PC to the **web server** and login as **webtrust**.  | You’re prompted for the password. |  |
|  | Enter the *password* for webtrust.  | You’re logged into web server. |  |
|  | Use the **script** command to capture commands that are typed in the Unix window. The syntax is **script /var/staging\_logs/<***servername***>\_sddapi1.7.1\_<***date***>.txt** | System should indicate script has started. |  |
|  | From the admin PC, download the **SDD API 1.7.1** distribution from the SAS Hot Fix site. After the distribution has been downloaded, use the WinSCP2 tool to copy the file to **/home/webtrust/Installs** on the web server. Transfer it as a **binary** file using the **webtrust** userid. **sdd-java-api-server-1.7.1.zip*****Note***: In a clustered web server environment, this file needs to be copied to each web server in the cluster. | The file is transferred to the web server. |  |
|  | Type **cd /sfw/tcServer** | Navigate to that directory. |  |
|  | Type **./tcruntime-ctl.sh sddserver1 stop** | System displays:INFO Instance name: sddserver1INFO Script directory: /apps/tcServerINFO tc Runtime location:/apps/tcServerINFO Instance base: /apps/tcServerINFO Binary dir: /apps/tcServer/tomcat-6.0.35.A.RELEASEINFO Runtime version: 6.0.35.A.RELEASEINFO Script version: 2.6.3.RELEASEInstance is running as PID=29796, shutting down...Instance is running PID=29796, sleeping for up to 60 seconds waiting for shutdownInstance shut down gracefully |  |
|  | Type **ps –ef | grep webtrust** | You should not see the tcserver process running. |  |
|  | Type **cd sddserver1/logs** | Navigate to the /sfw/tcServer/sddserver1/logs directory. |  |
|  | Delete or rename the **sdd\_info.log** and **catalina.out** files. | Log files are deleted or renamed. |  |
|  | Type **ls –al** | Verify that log files have been renamed or deleted. |  |
|  | Repeat **steps A6 – A11** for the remaining tcServers. ***Note:*** You do not have to stop the **sddserveradmin** server.***Note***: In a clustered web server environment, steps A6 – A12 must be performed on each web server in the cluster.  | The tcServers are stopped with the exception of the sddserveradmin server. |  |
|  | Type **cd /home/webtrust/Installs** | Navigate to that directory. |  |
|  | Type **unzip** **sdd-java-api-server-1.7.1.zip** | The contents of the zip file are extracted. |  |
|  | Type **ls -al** | You will see an sdd-java-api-server-1.7 directory that was created in the previous step. |  |
|  | Type **cd sdd-java-api-server-1.7.1** | Navigate to that directory. |  |
|  | Type **ant deploy** | System displays:Buildfile: build.xmldeploy: [echo] User home = /home/webtrustdeploy-server1:do-deploy: [echo] Deploying distribution to = /sfw/tcServer/sddserver1/webapps/sdd [copy] Copying 4 files to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.7/WEB-INF/lib/sas.hls.drug.api.client.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/lib/sas.hls.drug.api.client.jar [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.7/WEB-INF/lib/sas.hls.drug.api.server.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/lib/sas.hls.drug.api.server.jar [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.7/WEB-INF/spring-config/services-config-RAPI.xml to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/spring-config/services-config-RAPI.xml [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.7/WEB-INF/spring-config/services-remote-config-RAPI.xml to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/spring-config/services-remote-config-RAPI.xml…deploy-server5:deploy-server6:deploy-server7:deploy-server8:BUILD SUCCESSFULTotal time: 0 seconds |  |
|  | Type **cd /sfw/tcServer** | Navigate to that directory. |  |
|  | Type **./tcruntime-ctl.sh sddserver1 start** | System displays:INFO Instance name: sddserver1INFO Script directory: /sfw/tcServerINFO tc Runtime location:/sfw/tcServerINFO Instance base: /sfw/tcServerINFO Binary dir: /sfw/tcServer/tomcat-6.0.35.A.RELEASEINFO Runtime version: 6.0.35.A.RELEASEINFO Script version: 2.6.3.RELEASEUsing CATALINA\_BASE: /sfw/tcServer/sddserver1Using CATALINA\_HOME: /sfw/tcServer/tomcat-6.0.35.A.RELEASEUsing CATALINA\_TMPDIR: /sfw/tcServer/sddserver1/tempUsing JRE\_HOME: /usr/bin/jdk/jdk1.6.0\_35Using CLASSPATH: /sfw/tcServer/sddserver1/bin/tomcat-juli.jar:/sfw/tcServer/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jarUsing CATALINA\_PID: /sfw/tcServer/sddserver1/logs/tcserver.pid |  |
|  | Type **ps –ef | grep webtrust** | System displays:webtrust 12786 1 99 16:42 pts/1 00:00:41 /usr/bin/jdk/jdk1.6.0\_35/bin/java -Djava.util.logging.config.file=/sfw/tcServer/sddserver1/conf/logging.properties -Xms4g -Xmx4g -Xss256k -XX:PermSize=512m -XX:MaxPermSize=512m -XX:NewSize=1g -XX:MaxNewSize=1g -XX:+UseConcMarkSweepGC -XX:+UseParNewGC -XX:+CMSScavengeBeforeRemark -XX:+CMSParallelRemarkEnabled -XX:CMSInitiatingOccupancyFraction=70 -XX:+DisableExplicitGC -XX:+UseCompressedOops -XX:+UseLargePages -XX:LargePageSizeInBytes=2m -XX:+PrintGCDetails -XX:+PrintGCDateStamps -XX:+PrintFlagsFinal -Xloggc:/sfw/tcServer/sddserver1/logs/gc\_sddlight1\_03\_20\_2013\_1642.log -XX:+HeapDumpOnOutOfMemoryError -Djava.net.preferIPv4Stack=true -Djava.net.preferIPv6Addresses=false -Djgroups.bind\_addr=149.173.88.180 -Djava.util.logging.manager=com.springsource.tcserver.serviceability.logging.TcServerLogManager -Djava.endorsed.dirs=/sfw/tcServer/tomcat-6.0.35.A.RELEASE/endorsed -classpath /sfw/tcServer/sddserver1/bin/tomcat-juli.jar:/sfw/tcServer/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jar -Dcatalina.base=/sfw/tcServer/sddserver1 -Dcatalina.home=/sfw/tcServer/tomcat-6.0.35.A.RELEASE -Djava.io.tmpdir=/sfw/tcServer/sddserver1/temp org.apache.catalina.startup.Bootstrap start |  |
|  | Type **cd sddserver1/logs** | Navigate to the /sfw/tcServer/sddserver1/logs directory. |  |
|  | Type **tail –f sdd\_info.log*****Note:*** Depending on how fast your server is, you may need to type **tail -300 sdd\_info.log** | You will see the contents of the log file while the server is starting up. Look for the following lines, indicating success start of process.2013-03-20 16:43:00,508 | INFO | TCIRA | Starting Coyote HTTP/1.1 on http-80012013-03-20 16:43:00,520 | INFO | TCIRA | Server startup in 14602 ms2013-03-20 16:43:09,517 | INFO | SDIRA | | | Starting Quartz Scheduler now, after delay of 10 seconds |  |
|  | Hit **Ctrl-C** to stop viewing this log file. | You no longer see the output of the log file. |  |
|  | Repeat **steps A18 – A23** to start up any additional sddservers.***Note***: In a clustered web server environment, steps A13 – A24 must be performed on all web servers in the cluster.  | Steps repeated as necessary. |  |
|  | Hit **Ctrl-D** to stop the script command. | System indicates script stopped running. |  |
|  | Type **exit** | The webtrust userid is logged off the web server. |  |

***Signature below indicates completion of Checklist A, items A1 – A26, above.***

**Name (print or type): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sign-off : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**