



SAS Drug Development API 1.6

Installation Qualification / Operational Qualification Checklist

Install SDD API 1.6

Version 1.00
Date June 27, 2013

Change Control Log

| Revision | Reason | Author | Date |
|----------|--|-------------|----------------|
| 0.01 | Initial document from previous release | Steve Shack | March 20, 2013 |
| 0.02 | Copied from previous release | Steve Shack | June 27, 2013 |
| 1.00 | Finalized for release of software | Steve Shack | June 27, 2013 |
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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: <i>None</i> | |
|--------------------------------|--|--|----------------|
| # | Activity | Expected Results | Actual Results |
| A1. | Login to an admin PC. | Windows display appears. | |
| A2. | 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. | |
| A3. | Enter the <i>password</i> for webtrust. | You’re logged into web server. | |
| A4. | Use the script command to capture commands that are typed in the Unix window. The syntax is script /var/staging_logs/<servername>_sddapi1.6_<date>.txt | System should indicate script has started. | |
| A5. | From the admin PC, download the SDD API 1.6 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-1.6.zip <i>Note:</i> 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. | |
| A6. | Type cd /sfw/tcServer | Navigate to that directory. | |

| Checklist A: "Install SDD API" | | Corresponding Document: <i>None</i> | |
|--------------------------------|--|---|----------------|
| # | Activity | Expected Results | Actual Results |
| A7. | Type ./tcruntime-ctl.sh sddserver1 stop | System displays: INFO Instance name: sddserver1 INFO Script directory: /apps/tcServer INFO tc Runtime location:/apps/tcServer INFO Instance base: /apps/tcServer INFO Binary dir: /apps/tcServer/tomcat-6.0.35.A.RELEASE INFO Runtime version: 6.0.35.A.RELEASE INFO Script version: 2.6.3.RELEASE Instance is running as PID=29796, shutting down... Instance is running PID=29796, sleeping for up to 60 seconds waiting for shutdown Instance shut down gracefully | |
| A8. | Type ps -ef grep webtrust | You should not see the tcserver process running. | |
| A9. | Type cd sddserver1/logs | Navigate to the /sfw/tcServer/sddserver1/logs directory. | |
| A10. | Delete or rename the sdd_info.log and catalina.out files. | Log files are deleted or renamed. | |
| A11. | Type ls -al | Verify that log files have been renamed or deleted. | |
| A12. | Repeat steps A6 – A11 for the remaining tcServers. <i>Note:</i> You do not have to stop the sddserveradmin server. <i>Note:</i> 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. | |
| A13. | Type cd /home/webtrust/Installs | Navigate to that directory. | |
| A14. | Type unzip sdd-java-api-server-1.6.zip | The contents of the zip file are extracted. | |
| A15. | Type ls -al | You will see a sdd-java-api-server-1.6 directory that was created in the previous step. | |
| A16. | Type cd sdd-java-api-server-1.6 | Navigate to that directory. | |

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|--------------------------------|------------------------------|--|----------------|
| # | Activity | Expected Results | Actual Results |
| A17. | Type ant deploy | <p>System displays:</p> <p>Buildfile: build.xml</p> <p>deploy: [echo] User home = /home/webtrust</p> <p>deploy-server1:</p> <p>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-1.6/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-1.6/WEB-INF/spring-config/services-remote-config-RAPL.xml to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/spring-config/services-remote-config-RAPL.xml [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.6/WEB-INF/spring-config/services-config-RAPL.xml to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/spring-config/services-config-RAPL.xml [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.6/WEB-INF/lib/sas.hls.drug.api.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/lib/sas.hls.drug.api.jar ...</p> <p>deploy-server5:</p> <p>deploy-server6:</p> <p>deploy-server7:</p> <p>deploy-server8:</p> <p>BUILD SUCCESSFUL Total time: 0 seconds</p> | |
| A18. | Type cd /sfw/tcServer | Navigate to that directory. | |

| Checklist A: "Install SDD API" | | Corresponding Document: <i>None</i> | |
|--------------------------------|---|---|----------------|
| # | Activity | Expected Results | Actual Results |
| A19. | Type <code>./tcruntime-ctl.sh sddserver1 start</code> | System displays: INFO Instance name: sddserver1 INFO Script directory: /sfw/tcServer INFO tc Runtime location:/sfw/tcServer INFO Instance base: /sfw/tcServer INFO Binary dir: /sfw/tcServer/tomcat-6.0.35.A.RELEASE INFO Runtime version: 6.0.35.A.RELEASE INFO Script version: 2.6.3.RELEASE Using CATALINA_BASE: /sfw/tcServer/sddserver1 Using CATALINA_HOME: /sfw/tcServer/tomcat-6.0.35.A.RELEASE Using CATALINA_TMPDIR: /sfw/tcServer/sddserver1/temp Using JRE_HOME: /usr/bin/jdk/jdk1.6.0_35 Using CLASSPATH: /sfw/tcServer/sddserver1/bin/tomcat-juli.jar:/sfw/tcServer/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jar Using CATALINA_PID: /sfw/tcServer/sddserver1/logs/tcserver.pid | |

| Checklist A: "Install SDD API" | | Corresponding Document: <i>None</i> | |
|--------------------------------|---|---|----------------|
| # | Activity | Expected Results | Actual Results |
| A20. | Type ps -ef grep webtrust | <p>System displays:</p> <pre>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.servi ceability.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</pre> | |
| A21. | Type cd sddserver1/logs | Navigate to the /sfw/tcServer/sddserver1/logs directory. | |
| A22. | Type tail -f sdd_info.log <i>Note:</i> Depending on how fast your server is, you may need to type tail -300 sdd_info.log | <p>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.</p> <pre>2013-03-20 16:43:00,508 INFO TCIRA Starting Coyote HTTP/1.1 on http-8001 2013-03-20 16:43:00,520 INFO TCIRA Server startup in 14602 ms 2013-03-20 16:43:09,517 INFO SDIRA Starting Quartz Scheduler now, after delay of 10 seconds</pre> | |
| A23. | Hit Ctrl-C to stop viewing this log file. | You no longer see the output of the log file. | |

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|--------------------------------|--|---|----------------|
| # | Activity | Expected Results | Actual Results |
| A24. | Repeat steps A18 – A23 to start up any additional sddservers. <i>Note:</i> In a clustered web server environment, steps A13 – A24 must be performed on all web servers in the cluster. | Steps repeated as necessary. | |
| A25. | Hit Ctrl-D to stop the script command. | System indicates script stopped running. | |
| A26. | 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:** _____