



# SAS Drug Development API 1.4

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Installation Qualification / Operational Qualification Checklist

Install SDD API 1.4

**Version 1.00**  
**Date December 19, 2012**

## Change Control Log

Revision	Reason	Author	Date
0.01	Initial document from previous release	Jeff Piper	November 15, 2012
1.00	Finalized for release of software	Steve Shack	December 19, 2012

**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 <b>ssh</b> connection from the admin PC to the <b>web server</b> and login as <b>webtrust</b> .	You’re prompted for the password.	
A3.	Enter the <i>password</i> for webtrust.	You’re logged into web server.	
A4.	Use the <b>script</b> command to capture commands that are typed in the Unix window. The syntax is <b>script /var/staging_logs/&lt;servername&gt;_sddapi1.4_&lt;date&gt;.txt</b>	System should indicate script has started.	
A5.	From the admin PC, download the <b>SDD API 1.4</b> distribution from the SAS Hot Fix site. After the distribution has been downloaded, use the WinSCP2 tool to copy the file to <b>/home/webtrust/Installs</b> on the web server. Transfer it as a <b>binary</b> file using the <b>webtrust</b> userid.  <b>sdd-java-api-server-1.4.zip</b>  <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 <b>cd /sfw/tcServer</b>	Navigate to that directory.	

Checklist A: "Install SDD API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A7.	Type <b>./tcruntime-ctl.sh sddserver1 stop</b>	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 <b>ps -ef   grep webtrust</b>	You should not see the tcserver process running.	
A9.	Type <b>cd sddserver1/logs</b>	Navigate to the /sfw/tcServer/sddserver1/logs directory.	
A10.	Delete or rename the <b>sdd_info.log</b> and <b>catalina.out</b> files.	Log files are deleted or renamed.	
A11.	Type <b>ls -al</b>	Verify that log files have been renamed or deleted.	
A12.	Repeat <b>steps A6 – A11</b> for the remaining tcServers.  <i>Note:</i> You do not have to stop the <b>sddserveradmin</b> 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 <b>cd /home/webtrust/Installs</b>	Navigate to that directory.	
A14.	Type <b>unzip sdd-java-api-server-1.4.zip</b>	The contents of the zip file are extracted.	
A15.	Type <b>ls -al</b>	You will see a sdd-java-api-server-1.4 directory that was created in the previous step.	
A16.	Type <b>cd sdd-java-api-server-1.4</b>	Navigate to that directory.	

Checklist A: "Install SDD API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A17.	Type <b>ant deploy</b>	<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-1.4/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-1.4/WEB-INF/lib/sas.hls.drug.api.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/lib/sas.hls.drug.api.jar [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.4/WEB-INF/spring-config/services-remote-config-RAPI.xml to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/spring-config/services-remote-config-RAPI.xml [copy] Copying /home/webtrust/Installs/sdd-java-api-server-1.4/WEB-INF/lib/sas.hls.drug.api.server.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/lib/sas.hls.drug.api.server.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 <b>cd /sfw/tcServer</b>	Navigate to that directory.	

Checklist A: "Install SDD API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A19.	Type <b>./tcruntime-ctl.sh sddserver1 start</b>	<p>System displays:</p> <pre> INFO Instance name:  sddserveradmin 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/sddserveradmin Using CATALINA_HOME:  /sfw/tcServer/tomcat-6.0.35.A.RELEASE Using CATALINA_TMPDIR: /sfw/tcServer/sddserveradmin/temp Using JRE_HOME:  /usr/bin/jdk/jdk1.6.0_35 Using CLASSPATH:  /sfw/tcServer/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jar Using CATALINA_PID: /sfw/tcServer/sddserveradmin/logs/tcserver.pid </pre>	
A20.	Type <b>ps -ef   grep webtrust</b>	<p>System displays:</p> <pre> webtrust 3963  1 0 11:47 ?    00:01:42 /usr/bin/jdk/jdk1.6.0_35/bin/java - Djava.util.logging.config.file=/sfw/tcServer/sddserveradmin/ conf/logging.properties -Xss192K -Xms1024M -Xmx1024M -XX:PermSize=320m -XX:MaxPermSize=320m - XX:NewSize=128m -XX:MaxNewSize=256m - XX:+UseConcMarkSweepGC -XX:-UseTLAB - XX:+DisableExplicitGC - XX:+HeapDumpOnOutOfMemoryError - 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/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jar - Dcatalina.base=/sfw/tcServer/sddserveradmin - Dcatalina.home=/sfw/tcServer/tomcat-6.0.35.A.RELEASE - Djava.io.tmpdir=/sfw/tcServer/sddserveradmin/temp org.apache.catalina.startup.Bootstrap start </pre>	
A21.	Type <b>cd sddserver1/logs</b>	Navigate to the /sfw/tcServer/sddserver1/logs directory.	

Checklist A: "Install SDD API"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A22.	Type <b>tail -f sdd_info.log</b>  <i>Note:</i> Depending on how fast your server is, you may need to type <b>tail -300 sdd_info.log</b>	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.  Jan 13, 2012 4:54:23 PM org.apache.catalina.startup.Catalina start INFO: Server startup in 36512 ms	
A23.	Hit <b>Ctrl-C</b> to stop viewing this log file.	You no longer see the output of the log file.	
A24.	Repeat <b>steps A18 – A23</b> 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 <b>Ctrl-D</b> to stop the script command.	System indicates script stopped running.	
A26.	Type <b>exit</b>	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: \_\_\_\_\_