



SAS Drug Development 4.1.1

August 21, 2012
Upgrade Instructions

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SAS Drug Development 4.1.1, Installation Instructions

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Checklist A: “Backup of Customized SDD Files”

Note: This document is intended to assist an administrator in installing *SAS Drug Development (SDD) 4.1.1* from version *4.1*.

Prerequisites: All installation checklists for SDD 4.1 should have been completed prior to completing this checklist.

Checklist A: “Backup of Customized SDD Files”		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A1.	Login to an admin PC.	Windows display appears.	
A2.	Start Xming by selecting Start → Programs → Xming → Xming . <i>Note:</i> Exceed was having some display issues with some third party applications, so we recommend using Xming.	Xming starts and you see an icon on the PC taskbar.	
A3.	Using the putty tool, create an ssh connection from the admin PC to the web server and login as webtrust . Make sure the Enable X11 forwarding option is not set. Setting this option causes the web application to crash occasionally.	You’re prompted for the password.	
A4.	Enter the <i>webtrust password</i> .	You’re logged into web server.	
A5.	Use the script command to capture commands that are typed in the Unix window. The syntax is script /var/staging_logs/<servername>_411upgrade.txt	System should indicate script has started.	
A6.	If any customizations were made to the SDD 4.1 web application, these files should be copied to another location on this server. Ex: cp /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/web.xml /sfw/sdd41_custom	Files are copied as a backup.	
A7.	Repeat steps A1 - A6 for any additional sddservers.	Steps repeated as necessary.	

Signature below indicates completion of Checklist A, items A1 – A7, above.

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

Checklist B: “Deploy the SDD 4.1.1 Distribution”

Checklist B: “Deploy the SDD 4.1.1 Distribution”		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B1.	<p><u>Transfer Files</u></p> <p>From the admin PC, use the WinSCP2 tool to copy the following files from R:\R&D\Installation\SDD_Setup_41\WebServer to /sfw/installers on web server. Transfer this as a binary file.</p> <p>ant-contrib-1.0b3.jar</p>	The files are transferred to the web server.	
B2.	<p>From the admin PC, download the SDD 4.1.1 distribution from the SAS Hot Fix site. After the distribution has been downloaded, use the WinSCP2 tool to copy the file to /sfw/installers on the web server. Transfer this as a binary file.</p> <p>sdd-4.1.1.PROD.140.20120815.164617.zip</p>	The file is transferred to the web server.	
B3.			
B4.	<p><u>Shutdown tcServers</u></p> <p>Type cd /sfw/tcServer</p>	Navigate to that directory.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B5.	Type <code>./tcruntime-ctl.sh sddserver1 stop</code>	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 is still running PID=29796, forcing a shutdown	
B6.	Type <code>ps -ef grep webtrust</code>	You should not see the tcserver process running.	
B7.	Type <code>cd sddserver1/logs</code>	Navigate to the /sfw/tcServer/sddserver1/logs directory.	
B8.	Delete or rename the <code>sdd.log</code> and <code>catalina.out</code> files.	Log files are deleted or renamed.	
B9.	Type <code>ls -al</code>	Verify that log files have been renamed or deleted and the <code>.pid</code> file has been deleted.	
B10.	Repeat steps B4 – B9 for the remaining tcServers, including stopping the <code>sddserveradmin</code> tcServer.	There are no tcServer processes running.	
B11.			
B12.	<u>Prepare SDD Image for Install</u> Type <code>cd /home/webtrust/.ant/lib</code>	User is webtrust and is in the <code>/home/webtrust/.ant/lib</code> directory.	
B13.	Type <code>cp /sfw/installers/ant-contrib-1.0b3.jar .</code>	JAR file is copied.	
B14.	Type <code>ls -al</code>	Verify that the <code>ant-contrib-1.0b3.jar</code> file was copied.	
B15.	Repeat steps B12-B14 for each physical server that has tcServers installed.	The <code>ant-contrib-1.0b3.jar</code> file is copied to all web servers.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B16.			
B17.	<u>Unzip and Deploy the Build</u> Type cd /home/webtrust/Installs	Navigate to that directory.	
B18.	Type rm -rf dist	The dist directory is deleted.	
B19.	Type ls -al	Verify that the dist directory was deleted.	
B20.	Type cp /sfw/installers/sdd-4.1.1.PROD.140.20120815.164617.zip .	The SDD 4.1.1 binary is copied.	
B21.	Type unzip sdd-4.1.1.PROD.140.20120815.164617.zip	The contents of the zip file are extracted.	
B22.	Type ls -al	You will see a dist directory that was created in the previous step.	
B23.	Type cd dist/install	Navigate to the /home/webtrust/Installs/dist/install directory.	
B24.	Type ant clean	System displays: Buildfile: build.xml clean-tomcat: clean-tcserver: [delete] Deleting directory /sfw/tcServer/sddserver1/webapps/sdd [delete] Deleting directory /sfw/tcServer/sddserver2/webapps/sdd [delete] Deleting directory /sfw/tcServer/sddserver3/webapps/sdd [delete] Deleting directory /sfw/tcServer/sddserver4/webapps/sdd clean: BUILD SUCCESSFUL Total time: 0 seconds	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B25.	Type ant deploy	System displays: Buildfile: build.xml deploy-tomcat: deploy-tcserver: deploy-tcserver-1: do-deploy-tcserver: [echo] Deploying to tcServer... [echo] tcServer home = /sfw/tcServer [echo] tcServer deployment = /sfw/tcServer/sddserver1/webapps/sdd [copy] Copying 536 files to /sfw/tcServer/sddserver1/webapps/sdd deploy-tcserver-2: do-deploy-tcserver: [echo] Deploying to tcServer... [echo] tcServer home = /sfw/tcServer [echo] tcServer deployment = /sfw/tcServer/sddserver2/webapps/sdd [copy] Copying 536 files to /sfw/tcServer/sddserver2/webapps/sdd ... deploy-tcserver-5: deploy-tcserver-6: deploy-tcserver-7: deploy-tcserver-8: deploy: [echo] User home = /home/webtrust BUILD SUCCESSFUL Total time: 2 seconds	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B26.	If you are not updating the JavaAPI, then skip to step B31 . Otherwise, type cd ../../ .	Navigate to the /home/webtrust/Installs directory.	
B27.	Type unzip sdd-java-api-server-1.2.zip	The contents of the zip file are extracted.	
B28.	Type ls -al	You will see a sdd-java-api-server-1.2 directory that was created in the previous step.	
B29.	Type cd sdd-java-api-server-1.2	Navigate to that directory.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B30.	Type ant deploy	System displays: Buildfile: build.xml deploy: [echo] User home = /home/webtrust deploy-server1: do-deploy: [echo] Deploying distribution to = /sfw/tcServer/sddserver1/webapps/sdd [copy] Copying 4 files to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF deploy-server2: do-deploy: [echo] Deploying distribution to = /sfw/tcServer/sddserver2/webapps/sdd [copy] Copying 4 files to /sfw/tcServer/sddserver2/webapps/sdd/WEB-INF ... deploy-server5: deploy-server6: deploy-server7: deploy-server8: BUILD SUCCESSFUL Total time: 0 seconds	
B31.	Repeat steps B17-B30 for each physical server that has tcServers installed.	Additional tcServers are updated.	
B32.			
B33.	<u>SDD 4.1.1 Schema Upgrade Script</u> Type cd /home/webtrust/Builds	Directory is changed.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B34.	The schema upgrade script does not require DBA "system" account access, but it does require Xythos Global Schema and Xythos Docstore account information. Type vi <code>sdd-install.properties</code>	File opens in vi for editing.	
B35.	Make sure the following lines are set to: # Should we install the schema database.install=true Also, ensure that the following lines are <i>not</i> commented out: datasource.xgs.username=<username> datasource.xgs.password=<password> datasource.xds.username==<username> datasource.xds.password=<password>	File is modified.	
B36.	Hit Esc and type :x to save the file.	File is saved with changes made.	
B37.	Type more <code>sdd-install.properties</code>	Verify that changes have been saved.	
B38.	Type cd <code>/home/webtrust/Installs/dist/install</code>	Navigate to that directory.	
B39.	Type ant <code>upgrade-4.1.1</code>	System displays: Buildfile: build.xml upgrade-4.1.1: [input] Your server must NOT be running for this to work - is your server stopped? (y, n)	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B40.	Type y	System displays: do-upgrade-4.1.1: [echo] Upgrading schemas xgs1 xdstore1 from 4.1 to 4.1.1 [sql] Executing resource: /home/webtrust/Installs/dist/install/sql/oracle/upgrade/1.0 .1/sas_content_xds_custom.sql [sql] 2 of 2 SQL statements executed successfully [sql] Executing resource: /home/webtrust/Installs/dist/install/sql/oracle/upgrade/1.0 .1/sas_content_xgs_custom.sql [sql] 1 of 1 SQL statements executed successfully BUILD SUCCESSFUL Total time: 1 minute 6 seconds	
B41.			
B42.	<u>Startup tcServer Admin Server</u> Type cd /sfw/tcServer	Navigate to that directory.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B43.	Type <code>./tcruntime-ctl.sh sddserveradmin start</code>	System displays: 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_21 Using CLASSPATH: /sfw/tcServer/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jar Using CATALINA_PID: /sfw/tcServer/sddserveradmin/logs/tcserver.pid	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B44.	Type ps -ef grep webtrust	System displays: <pre> webtrust 3963 1 0 11:47 ? 00:01:42 /usr/bin/jdk/jdk1.6.0_21/bin/java - Djava.util.logging.config.file=/sfw/tcServer/sddserverad min/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.s erviceability.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>	
B45.	Type cd sddserveradmin/logs	Navigate to the /sfw/tcServer/sddserveradmin/logs directory.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B46.	Type tail -1000 catalina.out	<p>System displays:</p> <pre> Mar 26, 2012 10:21:56 AM org.apache.catalina.startup.Catalina load INFO: Initialization processed in 736 ms Mar 26, 2012 10:22:35 AM org.apache.catalina.startup.Catalina start INFO: Server startup in 39283 ms [2012-03-26T15:22:35Z] [Par..ing_41] Info ParameterMaster:308 Xyθος WebFile Server Parameter Value Listing WebFile Server Version: 7.2.88.1020 Server last reloaded at: 2012 03 26 10:21:56 EST Xyθος.RunMode = XyθοςStorageServer Command Line or Init File Parameter Values Xyθος.Install=default Xyθος.ServerGroup=default Xyθος.BaseDBType=oracle Xyθος.BaseDBUserName=xgs Xyθος.BaseJDBCDriverName=oracle.jdbc.OracleDrive r Hosted Virtual Servers default (default) ... Mar 26, 2012 10:44:27 AM org.apache.catalina.startup.Catalina load INFO: Initialization processed in 729 ms Mar 26, 2012 10:44:35 AM org.apache.catalina.startup.Catalina start INFO: Server startup in 7734 ms </pre>	
B47.	Hit Ctrl-C to stop viewing this log file.	You no longer see the output of the log file.	
B48.			
B49.	<u>Startup tcServer sddservers</u> Type cd /sfw/tcServer	Navigate to that directory.	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B50.	Type <code>./tcruntime-ctl.sh sddserver1 start</code>	<p>System displays:</p> <pre> 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_21 Using CLASSPATH: /sfw/tcServer/tomcat-6.0.35.A.RELEASE/bin/bootstrap.jar Using CATALINA_PID: /sfw/tcServer/sddserver1/logs/tcserver.pid </pre>	
B51.	Type <code>ps -ef grep webtrust</code>	<p>System displays:</p> <pre> webtrust 3963 1 0 11:47 ? 00:01:42 /usr/bin/jdk/jdk1.6.0_21/bin/java - Djava.util.logging.config.file=/sfw/tcServer/sddserver1/conf/logging.properties -Xms1024m -Xmx1024m - XX:PermSize=320m -XX:MaxPermSize=320m - Xss160k -XX:NewSize=128m -XX:MaxNewSize=256m -XX:+UseConcMarkSweepGC -XX:-UseTLAB - XX:+DisableExplicitGC - 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/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>	

Checklist B: "Deploy the SDD 4.1.1 Distribution"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
B52.	Type cd sddserver1/logs	Navigate to the /sfw/tcServer/sddserver1/logs directory.	
B53.	Type tail -f catalina.out <i>Note:</i> Depending on how fast your server is, you may need to type tail -300 catalina.out	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	
B54.	Hit Ctrl-C to stop viewing this log file.	You no longer see the output of the log file.	
B55.	Repeat steps B49 – B54 to start up any additional sddservers.	Steps repeated as necessary.	
B56.	Hit Ctrl-D to stop the script command.	System indicates script stopped running.	
B57.	Type exit	You're logged off the web server.	

Signature below indicates completion of Checklist B, items B1 – B57, above.

Name (print or type): _____ Sign-off : _____ Date: _____