

## SAS Drug Development 4.3.2

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## SAS Drug Development 4.3.2, 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) 4.3.2 from version 4.3.1 or 4.3.

**Prerequisites:** All installation checklists for SDD 4.3 and 4.3.1 should have been completed prior to completing this checklist.

Checklist A: "Backup of Customized SDD Files"		Corresponding Document: None	
#	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	You're prompted for the password.	
	PC to the web server and login as <b>webtrust</b> .		
	Males and the Eachle V11 formanding antion is not ast		
	Make sure the Enable X11 forwarding option is not set.		
	Setting this option causes the web application to crash		
	occasionally.		
A3.	Enter the webtrust <i>password</i> .	You're logged into web server.	
A4.	Use the <b>script</b> command to capture commands that are typed in	System should indicate script has started.	
	the Unix window. The syntax is <b>script</b>		
	/var/staging_logs/ <servername>_432upgrade.txt</servername>		
A5.	If any customizations were made to the SDD 4.3.1 web	Files are copied as a backup.	
	application, these files should be copied to another location on		
	this server.		
	Ex: cp /sfw/tcServer/sddserver1/webapps/sdd/WEB-		
	INF/web.xml /sfw/sdd43_custom		
A6.	Repeat steps A1 – A5 for any additional sddservers.	Steps repeated as necessary.	

Signature below indicates completion of Checklist A, items A1 – A6, above.

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

## Checklist B: "Deploy the SDD 4.3.2 Distribution"

Checklist B: "Deploy the SDD 4.3.2 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B1.	Transfer Files	The file is transferred to the web server.	
	From the admin PC, download the <b>SDD 4.3.2</b> distribution from the SAS Hot Fix site. After the distribution has been downloaded, use the WinSCP2 tool to copy this file to /sfw/installers on the web server. Transfer this as a binary file. sdd-4.3.2.PROD.15.20131119.144746.zip		
	R:\R&D\Installation\SDD_Setup_43\WebServer\ant- contrib-0.6.jar Note: If you are upgrading from SDD 4.3, this jar needs to be copied. You can skip the copying of the ant-contrib-0.6.jar if upgrading from SDD 4.3.1 since it was performed in that checklist.		
B2.			
B3.	Shutdown tcServers	Navigate to that directory.	
	Type cd /sfw/tcServer		

Check	klist B: "Deploy the SDD 4.3.2 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B4.	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	
DC		Instance is still running PID=29796, forcing a shutdown	
В5.	l ype <b>ps –et</b>   <b>grep webtrust</b>	You should not see the toserver process	
DC	The shall share states	running.	
В6.	l ype cd sddserver1/logs	Navigate to the /sfw/tcServer/sddserver1/logs	
D7	Delete an anome the add info log and sateling out files	directory.	
B/.	Delete of rename the sod_info.log and catalina.out files.	Log files are deleted or renamed.	
В8.	I ype <b>is –al</b>	deleted and the nid file has been deleted	
PO	Depart stong <b>D2 D9</b> for the remaining to Converse including	There are no to sorver processes running	
D9.	stopping the sddsarwaradmin te Server	There are no toserver processes running.	
B10	stopping the stuser veraumin teserver.		
B10.	If you are ungrading from SDD 4 3.1 skip to step B16		
DII.	Otherwise proceed to step B12		
B12	Copy ant-contrib-0.6 jar	Navigate to that directory	
D12.		ruvigue to that directory.	
	Type cd /home/webtrust/.ant/lib		
B13.	Type cp /sfw/installers/ant-contrib-0.6.jar.	The JAR file is copied.	
B14.	Type <b>ls</b> – <b>al</b>	The ant-contrib-0.6.jar and the ant-junit.jar	
		display.	
B15.			

Checklist B: "Deploy the SDD 4.3.2 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B16.	Unzip and Deploy the Build	Navigate to that directory.	
	Type cd /home/webtrust/Installs		
B17.	Type <b>rm –rf dist</b>	The dist directory is deleted.	
B18.	Type <b>ls</b> – <b>al</b>	Verify that the dist directory was deleted.	
B19.	Type cp /sfw/installers/ sdd- 4.3.2.PROD.15.20131119.144746.zip	The SDD 4.3.2 binary is copied.	
B20.	Type unzip -q sdd-4.3.2.PROD.15.20131119.144746.zip	The contents of the zip file are extracted.	
B21.	Type <b>ls</b> – <b>al</b>	You will see a dist directory that was created	
		in the previous step.	
B22.	Type cd dist/install	Navigate to the	
		/home/webtrust/Installs/dist/install directory.	
B23.	Type ant clean	System displays:	
		Buildfile: /home/webtrust/Installs/dist/install/build.xml	
		clean:	
		[delete] Deleting directory /sfw/tcServer/sddserveradmin/webapps/yythosadmin	
		[delete] Deleting directory	
		/sfw/tcServer/sddserver1/webapps/sdd	
		[delete] Deleting directory	
		/stw/tcServer/sddserver2/webapps/sdd [delete] Deleting directory	
		/sfw/tcServer/sddserver3/webapps/sdd	
		[delete] Deleting directory	
		/sfw/tcServer/sddserver4/webapps/sdd	
		BUILD SUCCESSFUL	
		Total time: 0 seconds	

Chec	klist B: "Deploy the SDD 4.3.2 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B24.	Type ant deploy	System displays:	
		Buildfile: /home/webtrust/Installs/dist/install/build.xml	
		deploy:	
		deploy-tomcat-1:	
		<pre>do-deploy: [echo] Deploying to tcServer [echo] tcServer home = /sfw/tcServer [echo] tcServer deployment = /sfw/tcServer/sddserver1/webapps/sdd [copy] Copying 565 files to /sfw/tcServer/sddserver1/webapps/sdd deploy-tcserver-2:</pre>	
		deploy-tcserver-8:	
		deploy-admin-server: [echo] Configuring administration server /sfw/tcServer/sddserveradmin [unzip] Expanding: /home/webtrust/Installs/dist/webapps/xythosadmin.war into /sfw/tcServer/sddserveradmin/webapp s/xythosadmin [copy] Copying 2 files to /sfw/tcServer/sddserveradmin/webapps/xythosadmin/WEB- INF/lib [copy] Copying 3 files to /sfw/tcServer/sddserveradmin [copy] Copying 1 file to /sfw/tcServer/sddserveradmin/lib [copy] Copying 1 file to /sfw/tcServer/sddserveradmin/webapps/xythosadmin/WEB- INF/classes deploy-admin-embedded: BUILD SUCCESSFUL Total time 2 accords	
B25.	If you are not installing or updating the JavaAPI, then skip to	Navigate to the /home/webtrust/Installs	
	step B30. Otherwise, type cd/	directory.	

Checklist B: "Deploy the SDD 4.3.2 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B26.	Type unzip sdd-java-api-server-1.6.zip	The contents of the zip file are extracted.	
B27.	Type <b>ls -al</b>	You will see an sdd-java-api-server-16	
		directory that was created in the previous	
		step.	
B28.	Type cd sdd-java-api-server-1.6	Navigate to that directory.	

Chec	klist B: "Deploy the SDD 4.3.2 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B29.	Type ant deploy	System displays:	
		Buildfile: build.xml	
		deploy: [echo] User home = /home/webtrust	
		deploy-server1:	
		<pre>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 [copy] Copying /home/webtrust/Installs/sdd-java-api- server-1.2/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-1.2/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-1.2/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-1.2/WEB-INF/lib/sas.hls.drug.api.server.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB-INF/spring- config/services-remote-config-RAPI.xml [copy] Copying /home/webtrust/Installs/sdd-java-api- server-1.2/WEB-INF/lib/sas.hls.drug.api.server.jar to /sfw/tcServer/sddserver1/webapps/sdd/WEB- INF/lib/sas.hls.drug.api.server.jar  deploy-server5: deploy-server6: deploy-server7: deploy-server8: BUILD SUCCESSEUL.</pre>	
		Total time: 1 seconds	

Chec	klist B: "Deploy the SDD 4.3.2 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B30.	Repeat steps <b>B11-B29</b> for each physical server that has tcServers installed.	Additional tcServers are updated.	
B31.			
B32.	Startup tcServer Admin Server	Navigate to that directory.	
	Type cd /sfw/tcServer		
B33.	Type ./tcruntime-ctl.sh sddserveradmin start	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 4.3.2 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B34.	Type <b>ps</b> –ef   grep webtrust	System displays:	
		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: UseTLAB XX: DisableExplicitGC	
		XX+HeanDumnOnOutOfMemoryError -	
		Diava.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.tmpdif=/sfw/tcServer/sddserveradmin/temp	
D25		Ne instanta for the	
B35.	I ype ca saaserveradmin/logs	Navigate to the	
		/sfw/tcServer/sddserveradmin/logs directory.	

Chec	klist B: "Deploy the SDD 4.3.2 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
# B36.	Type tail –1000 catalina.out	Expected Results         System displays:         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] [Paring_41]         Info         ParameterMaster:308         Xythos WebFile Server         Parameter Value Listing         WebFile Server Version: 7.2.88.1020         Server last reloaded at: 2012 03 26 10:21:56 EST         Xythos.RunMode = XythosStorageServer         Command Line or Init File Parameter Values         Xythos.Install=default         Xythos.BaseDBType=oracle         Xythos.BaseDBUserName=xgs         Xythos.BaseJDBCDriverName=oracle.jdbc.OracleDrive r         Image: Command Line or Init File Parameter values         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	Actual Kesults
B37.	Hit Ctrl-C to stop viewing this log file.	You no longer see the output of the log file.	
B38.			
B39.	Startup tcServer sddservers	Navigate to that directory.	
	i ype cu /si w/ coci vei		

Chec	klist B: "Deploy the SDD 4.3.2 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B40.	Type ./tcruntime-ctl.sh sddserver1 start	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         INFO Binary dir:       /sfw/tcServer         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:       (fs/ts/cServer/tomcat-       6.0.35.A.RELEASE/bin/bootstrap.jar	
B41.	Type <b>ps –ef   grep webtrust</b>	/stwitcserver/sddserver//logs/tcserver.pid         System displays:         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/c         onf/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.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 /endorsed -classpath         /sfw/tcServer/tomcat-         6.0.35.A.RELEASE /         Diatalina.base=/sfw/tcServer/sddserver1 -         Dcatalina.home=/sfw/tcServer/tomcat-         6.0.35.A.RELEASE -         Djava.io.tmpdir=/sfw/tcServer/sddserver1/temp         or: apache.catalina.startup.Bootstrap start	

Checklist B: "Deploy the SDD 4.3.2 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B42.	Type cd sddserver1/logs	Navigate to the /sfw/tcServer/sddserver1/logs	
		directory.	
B43.	Type tail –f sdd_info.log	You will see the contents of the log file while	
		the server is starting up. Look for the	
	Note: Depending on how fast your server is, you may need to	following lines, indicating success start of	
	type tail -300 sdd_info.log	process.	
		2013-09-06 15:30:16,692   INFO   TCIRA   Starting Coyote HTTP/1.1 on http-8001 2013-09-06 15:30:16,701   INFO   TCIRA   Server startup in 19635 ms 2013-09-06 15:30:24,990   INFO   SDIRA       Starting Quartz Scheduler now, after delay of 10 seconds	
B44.	Hit <b>Ctrl-C</b> to stop viewing this log file.	You no longer see the output of the log file.	
B45.	Repeat steps B39 – B44 to start up any additional sddservers.	Steps repeated as necessary.	
B46.	Hit <b>Ctrl-D</b> to stop the script command.	System indicates script stopped running.	
B47.	Type exit	You're logged off the web server.	

Signature below indicates completion of Checklist B, items B1 – B47, above.

Name (print or type): \_\_\_\_\_

Sign-off: \_\_\_\_\_

Date:\_\_\_\_\_