

SAS Drug Development 4.2.1

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SAS Drug Development 4.2.1, 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) 4.2.1 from version 4.2.

Prerequisites: All installation checklists for SDD 4.2 should have been completed prior to completing this checklist.

Check	clist A: "Backup of Customized SDD Files"	Corresponding Document: None	
#	Activity	Expected Results	Actual Results
A1.	Login to an admin PC.	Windows display appears.	
A2.	Start Xming by selecting Start → Programs → Xming → Xming .	Xming starts and you see an icon on the PC taskbar.	
	<i>Note:</i> Exceed was having some display issues with some third party applications, so we recommend using Xming.		
A3.	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.	
	Make sure the Enable X11 forwarding option is not set. Setting this option causes the web application to crash occasionally.		
A4.	Enter the webtrust <i>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/< <i>servername</i> >_421upgrade.txt	System should indicate script has started.	
A6.	If any customizations were made to the SDD 4.2 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/sdd42_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: "Install the SAS Hot Fix"

Chec	klist B: "Install the SAS Hot Fix"	Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B1.	Using the putty tool, create an ssh connection from the admin PC to the SAS processing server or single SAS server and login as sasadmin .	You're prompted for the password.	
	Make sure the Enable X11 forwarding option is not set. Setting this option causes the web application to crash occasionally.		
B2.	Enter the sasadmin <i>password</i> .	You're logged into SAS server.	
B3.	Use the script command to capture commands that are typed in the Unix window. The syntax is script /var/staging_logs/ <servername>_sas_421upgrade.txt</servername>	System should indicate script has started.	
B4. B5.	Tuonafan Ellas	The file is transferred to the SAS server.	
Б3.	Transfer Files From the admin PC, use the WinSCP2 tool to copy the following file from R:\R&D\Installation\SDD_Setup_42\SASServer\hotfixes to /sfw/installers on destination server. Transfer this as a binary file. I23005la.zip	The me is transferred to the SAS server.	
B6.			

Checklist B: "Install the SAS Hot Fix"		Corresponding 2	Document: None
#	Activity	Expected Results	Actual Results
В7.	Install SAS Hot Fix Stop the SAS server processes by typing one of the following commands. If this is a single SAS server system, type /sfw/sas_servers/Lev1/sas.servers stop Otherwise, type /sfw/sas_servers/Lev1/ObjectSpawner2/ObjectSpawner.sh stop	The SAS processes are stopped.	
	or type /sfw/sas_servers/Lev1/ObjectSpawner/Object Spawner.sh stop		
B8.	Type ps –ef grep sasadmin	The following processes should <u>not</u> be running (depending if this is a single SAS server, first SAS processing server or another SAS processing server): /bin/sh -p /sfw/sas_servers/Lev1/SASMeta/MetadataServer/Metada taServer.sh start2_tag /bin/sh -p /sfw/sas_servers/Lev1/Web/Applications/RemoteService s/RemoteServices.sh start2 /bin/sh -p /sfw/sas_servers/Lev1/FrameworkServer/dffedsvrcfg/dff edsvrcfg.sh start2_tag /bin/sh -p /sfw/sas_servers/Lev1/ObjectSpawner/ObjectSpawner.sh start2_tag	
B9.	Type mv /sfw/installers/I23005la.zip /sfw/sas9.3/InstallMisc/HotFixes/New/.	The hot fix file is moved.	
B10.	Type cd /sfw/sas9.3/SASDeploymentManager/9.3	Navigate to that directory.	

Checl	clist B: "Install the SAS Hot Fix"	Corresponding Do	ocument: None
#	Activity	Expected Results	Actual Results
B11.	Type ./sasdm.sh	The Choose Language window displays.	
B12.	Click OK .	The Select SAS Deployment Manager Task	
		window displays.	
B13.	Select the Apply Hot Fixes radio button and click Next .	The Apply Hot Fixes window displays.	
B14.	Leave the default value of	The SAS Deployment Manager does a	
	/sfw/sas9.3/InstallMisc/HotFixes/New in the Hot Fix Package	system check and then the displays the results	
	Directory field. Click Next .	in the Checking System page. In the middle	
		of the screen, you should see "Unwritable	
		files: 0."	
B15.	Click Next.	The Review Hot Fix Updates window	
		displays the list of files that will be added,	
		removed, and changed.	
B16.	Click Next.	The Deployment Summary page displays.	
B17.	Click Start.	The hotfix is deployed, then the Deployment	
		Complete page displays upon completion.	
B18.	Click Next.	The Hot Fix Updates Complete window	
		displays the list of hot fix updates that were	
		processed.	
B19.	Click Next.	The Additional Resources window displays.	
B20.	Click Finish .	The SAS Deployment Manager closes.	
B21.			
B22.	Update Object Spawner for GMT	Navigate to that directory.	
	Type cd /sfw/sas_servers/Lev1/ObjectSpawner		
	Note: The Object Spawner directory name may be a little		
	different depending if this is a single-SAS-server configuration		
	or a multi-SAS-server one.		
B23.	Type vi ObjectSpawner.sh	File opens in vi for editing.	

Check	klist B: "Install the SAS Hot Fix"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B24.	At the beginning of this file beneath the block of #'s representing comments, type:	File is modified.	
	TZ=GMT export TZ		
B25.	Hit Esc and type :x to save the file.	File is saved with changes made.	
B26.	Type more ObjectSpawner.sh	Verify that changes have been saved.	
B27.	Start the SAS server processes by typing one of the following commands. If this is a single SAS server system, type /sfw/sas_servers/Lev1/sas.servers start	The SAS processes are started.	
	Otherwise, type		
	/sfw/sas_servers/Lev1/ObjectSpawner2/ObjectSpawner.sh start		
	or type		
	/sfw/sas_servers/Lev1/ObjectSpawner <servername>/Object</servername>		
	Spawner.sh start		

# A	-	
# Activit	Expected Results	Actual Results
B28. Type ps –ef grep sasadmin	The following processes should be running (depending if this is a single SAS server, first SAS processing server or another SAS processing server): /bin/sh -p /sfw/sas_servers/Lev1/SASMeta/MetadataServer/MetadataServer.sh start2_tag /bin/sh -p /sfw/sas_servers/Lev1/Web/Applications/RemoteServices/RemoteServices.sh start2 /bin/sh -p /sfw/sas_servers/Lev1/FrameworkServer/dffedsvrcfg/dffedsvrcfg.sh start2_tag /bin/sh -p /sfw/sas_servers/Lev1/ObjectSpawner/ObjectSpawner.sh start2_tag	
B29. Hit Ctrl-D to stop the script comm	nd. System indicates script stopped running.	
B30. Type exit	You're logged off the web server.	
B31. Repeat Checklist B for any addition	al SAS processing servers.	

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

Signature below indicates completion of Checklist B, items B1 – B31, above.

Checklist C: "Deploy the SDD 4.2.1 Distribution"

Checl	klist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding Document: None		
#	Activity	Expected Results	Actual Results	
C1.	Transfer File	The file is transferred to the web server.		
	From the admin PC, download the SDD 4.2.1 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.			
	sdd-4.2.1.PROD.153.20130221.143725.zip			
C2.	Stat Himili RODIIO IMOI SOMMILI TO I MOI ELEP			
C3.	Shutdown tcServers	Navigate to that directory.		
	Type cd /sfw/tcServer			
C4.	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 is still running PID=29796, forcing a shutdown		
C5.	Type ps -ef grep webtrust	You should not see the toserver process		
		running.		
C6.	Type cd sddserver1/logs	Navigate to the /sfw/tcServer/sddserver1/logs		
		directory.		
C7.	Delete or rename the sdd_info.log and catalina.out files.	Log files are deleted or renamed.		

# Activity Expected R C8. Type Is -al Verify that log files have deleted and the .pid file have deleted and the .pid file have stopping the sddserveradmin tcServer. C10. C11. Unzip and Deploy the Build Navigate to that directory Type cd /home/webtrust/Installs C12. Type rm -rf dist The dist directory is deleted. The SDD 4.2.1 binary is content of the zip file. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C15. Type Is -al You will see a dist directory in the previous step. C16. Type cd dist/install Navigate to the /home/webtrust/Installs/discreted.	
deleted and the .pid file hat C9. Repeat steps C4 – C8 for the remaining tcServers, including stopping the sddserveradmin tcServer. C10. C11. Unzip and Deploy the Build Type cd /home/webtrust/Installs C12. Type rm –rf dist C13. Type ls –al C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls –al Type cd dist/install You will see a dist director in the previous step. C17. Type cd dist/installs/di	esults Actual Results
stopping the sddserveradmin tcServer. C10. C11. Unzip and Deploy the Build Type cd /home/webtrust/Installs C12. Type rm -rf dist C13. Type ls -al C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al C17. Type cd dist/install Navigate to that directory The dist directory is deleted. Verify that the dist directory The SDD 4.2.1 binary is contents of the zip fill You will see a dist director in the previous step. Navigate to the /home/webtrust/Installs/directors	
C11. Unzip and Deploy the Build Type cd /home/webtrust/Installs C12. Type rm -rf dist C13. Type ls -al C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al C17. Type cd dist/install Navigate to that directory The dist directory is deleted. The SDD 4.2.1 binary is contents of the zip fill and the previous step. C16. Type ls -al You will see a dist directory Navigate to the home/webtrust/Installs/displayers	cesses running.
Type cd /home/webtrust/Installs C12. Type rm -rf dist C13. Type ls -al C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al C17. Type cd dist/install Navigate to the /home/webtrust/Installs/distance.	
C12. Type rm -rf dist C13. Type ls -al C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al C17. Type cd dist/install C18. Type cd dist/install C19. Type cd dist/install	
C13. Type ls -al C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip. C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al C17. Type cd dist/install C18. Type cd dist/install C19. Type cd dist/install C19. Type cd dist/install C19. Type cd dist/install	
C14. Type cp /sfw/installers/sdd- 4.2.1.PROD.153.20130221.143725.zip. C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al C17. Type cd dist/install Navigate to the /home/webtrust/Installs/distall	
4.2.1.PROD.153.20130221.143725.zip. C15. Type unzip -q sdd-4.2.1.PROD.153.20130221.143725.zip C16. Type ls -al You will see a dist director in the previous step. C17. Type cd dist/install Navigate to the /home/webtrust/Installs/di	·
C16. Type ls –al You will see a dist directed in the previous step. C17. Type cd dist/install Navigate to the /home/webtrust/Installs/di	copied.
in the previous step. C17. Type cd dist/install Navigate to the /home/webtrust/Installs/di	e are extracted.
C17. Type cd dist/install Navigate to the /home/webtrust/Installs/di	ory that was created
/home/webtrust/Installs/di	
C18. Type ant clean System displays:	ist/install directory.
Buildfile: build.xml	
clean-tomcat:	
clean-tcserver: [delete] Deleting directory /sfw/tcServer/sddserver1/webap [delete] Deleting directory /sfw/tcServer/sddserver2/webap [delete] Deleting directory /sfw/tcServer/sddserver3/webap [delete] Deleting directory /sfw/tcServer/sddserver4/webap clean:	ps/sdd
BUILD SUCCESSFUL Total time: 0 seconds	

Checklist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding	Document: None
# Activity	Expected Results	Actual Results
C19. Type ant deploy	System displays:	
	Buildfile: build.xml	
	deploy-tomcat:	
	deploy-teserver:	
	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 537 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 537 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 C: "Deploy the SDD 4.2.1 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
C20.	If you are not installing or updating the JavaAPI, then skip to	Navigate to the /home/webtrust/Installs	
	step C25. Otherwise, type cd/	directory.	
C21.	Type unzip sdd-java-api-server-1.4.zip	The contents of the zip file are extracted.	
C22.	Type ls -al	You will see a sdd-java-api-server-14	
		directory that was created in the previous	
		step.	
C23.	Type cd sdd-java-api-server-1.4	Navigate to that directory.	

Checklist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding D	ocument: None
# Activity	Expected Results	Actual Results
C24. 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 [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/lib/sas.hls.drug.api.server.jar deploy-server5:	
	deploy-server6: deploy-server7:	
	deploy-server8:	
	BUILD SUCCESSFUL Total time: 0 seconds	

Checl	klist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
C25.	Repeat steps C11-C24 for each physical server that has tcServers installed.	Additional tcServers are updated.	
C26.			
C27.	SDD 4.2.1 Schema Upgrade Script	Directory is changed.	
	Type cd /home/webtrust/Builds		
C28.	The schema upgrade script does not require DBA "system" account access, but it does require Xythos Global Schema and Xythos Docstore account information.	File opens in vi for editing.	
	Type vi sdd-install.properties		
C29.	Make sure the following lines are set to:	File is modified.	
	# Should we install the schema database.install=true		
	Also, ensure that the following lines are <i>not</i> commented out:		
	datasource.xgs.username= <username></username>		
	datasource.xgs.password= <pre>case=case=case=case=case=case=case=case=</pre>		
	datasource.xds.username== <username></username>		
	datasource.xds.password= <password></password>		
C30.	Hit Esc and type :x to save the file.	File is saved with changes made.	
C31.	Type more sdd-install.properties	Verify that changes have been saved.	
C32.	Type cd /home/webtrust/Installs/dist/install	Navigate to that directory.	
C33.	Type ant upgrade-4.2.1	System displays:	
		Buildfile: build.xml	
		upgrade-4.2.1:	
		[input] Your server must NOT be running for this to work - is your server stopped? (y, n)	

Checklist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding	Corresponding Document: None	
# Activity	Expected Results	Actual Results	
C34. Type y	System displays:		
	upgrade-4.2.1:		
	[echo] Upgrading schemas xgs1 xdstore1 from 4.2 to		
	4.2.1		
	[sql] Executing resource:		
	/home/webtrust/Installs/dist/install/sql/oracle/upgrade/1.1		
	.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/1.1		
	.1/sas_content_xgs_custom.sql		
	[sql] 1 of 1 SQL statements executed successfully		
	BUILD SUCCESSFUL		
	Total time: 1 minute 6 seconds		
C35.			
C36. Startup tcServer Admin Server	Navigate to that directory.		
Type cd /sfw/tcServer			

Chec	klist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
C37.	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 C: "Deploy the SDD 4.2.1 Distribution"		Corresponding Do	Corresponding Document: None	
#	Activity	Expected Results	Actual Results	
C38. Typ	pe ps –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: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		
С39. Тур	pe cd sddserveradmin/logs	Navigate to the /sfw/tcServer/sddserveradmin/logs directory.		

Chec	klist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding D	ocument: None
#	Activity	Expected Results	Actual Results
C40.	Type tail –1000 catalina.out	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.ServerGroup=default Xythos.BaseDBType=oracle Xythos.BaseDBUserName=xgs Xythos.BaseDBUserName=xgs Xythos.BaseJDBCDriverName=oracle.jdbc.OracleDrive r	
C41.	Hit Ctrl-C to stop viewing this log file.	You no longer see the output of the log file.	
C42.			
C43.	Startup tcServer sddservers Type cd /sfw/tcServer	Navigate to that directory.	
	1 ypc cu /si w/tcsci vei		

Chec	klist C: "Deploy the SDD 4.2.1 Distribution"	Corresponding D	Oocument: None
#	Activity	Expected Results	Actual Results
C44.	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/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 RE_HOME: /usr/bin/jdk/jdk1.6.0_21 Using CLASSPATH: /sfw/tcServer/tomcat- 6.0.35.A.RELEASE/bin/bootstrap.jar	
C45.	Type ps –ef grep webtrust	Using CATALINA_PID: /sfw/tcServer/sddserver1/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 - Xx:10se-320m -XX:MaxPermSize=320m - XX:+UseConcMarkSweepGC -XX:-UseTLAB - 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 /bin/bootstrap.jar - Dcatalina.base=/sfw/tcServer/sddserver1 - Dcatalina.base=/sfw/tcServer/tomcat- 6.0.35.A.RELEASE - Djava.io.tmpdir=/sfw/tcServer/sddserver1/temp org.apache.catalina.startup.Bootstrap start	

Checklist C: "Deploy the SDD 4.2.1 Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
C46.	Type cd sddserver1/logs	Navigate to the /sfw/tcServer/sddserver1/logs	
		directory.	
C47.	Type tail –f catalina.out	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 catalina.out	process.	
		Jan 13, 2012 4:54:23 PM org.apache.catalina.startup.Catalina start INFO: Server startup in 36512 ms	
C48.	Hit Ctrl-C to stop viewing this log file.	You no longer see the output of the log file.	
C49.	Repeat steps C43 – C48 to start up any additional sddservers.	Steps repeated as necessary.	
C50.	Hit Ctrl-D to stop the script command.	System indicates script stopped running.	
C51.	Type exit	You're logged off the web server.	

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

Signature below indicates completion of Checklist C, items C1-C51, above.