

# SAS Drug Development 3.5\_07

June 20, 2012

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### SAS Drug Development 3.5\_07, Installation Instructions

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### JRE

1.5 and 1.6.0\_*n* (where *n* is not 14)

### **Data Server**

- Oracle 10.2.0.4.0 (To obtain this software, contact <u>http://oracle.com/</u>)
   Note: This is a recommended patch from previous versions of SDD that supported Oracle 10.2.0.1.0.
- Solaris 10 (S64) or HP-UX (IPF)

*Note:* The database must be created with the following characteristics:

- 1. UTF8 for the National Character Set. The Database Character Set should be set to WE8ISO8859P1. However, if you are providing DBCS support, then the Database Character Set must be set to UTF8.
- 2. A block size of 8K or greater
- 3. The default compatibility option, i.e., compatibility (10.2.0.1.0)
- 4. The open\_cursors startup parameter equal to the value of "300" or higher.
- 5. The recommended setting for the processes parameter should be set to at least 1000. This number may need to be adjusted according to the number of servers, users, hardware in your environment.

Because Oracle typically uses only one database instance, Xythos WFS requires the creation of schemas, also known as users. WFS uses one schema for the Xythos Global Schema and at least one other schema for a Xythos Document Store.

## The SAS system for Solaris (S64) or HP-UX (IPF)

- SAS 9.2 (Rev. 920\_10w46)
- Base SAS
- SAS/AF
- SAS/CONNECT
- SAS/GRAPH
- Integration Technologies
- SAS/STAT
- *Note:* You must apply a security certificate to the web server in order to use the WebDAV LIBNAME statement feature.
- *Note:* While this list shows the SAS products that SAS Drug Development requires, you may have others that support your programming environment, e.g., STAT for running statistical procedures.

### The SAS system for Windows

- SAS 9.2 (Rev. 920\_10w46)
- Base SAS
- SAS/ACCESS Interface to PC Files
- SAS/CONNECT

This release of SAS Drug Development supports two encoding options for DBCS enabled systems. These options are UTF-8 and SJIS. *If you are running DBCS with SJIS encoding*, the following options must be installed/set from the Regional and Language Options window in the Control Panel:

- In the Supplemental language support section under the **Languages** tab, check the box **Install files for East Asian languages**. The **Windows Server 2003** CD is required to copy the necessary language files to the PC.
- In the Language for non-Unicode programs section under the **Advanced** tab, select **Japanese** from the drop-down list.

# **Patch Instructions**

Note: This document is intended to assist an administrator in installing the patch of SAS Drug Development (SDD) 3.5\_07 from version 3.5, 3.5\_02, 3.5\_03, 3.5\_04, 3.5\_05, 3.5\_051 or 3.5\_06.

Prerequisites: The "Installation Instructions for Hot Fix A80007" should have been completed prior to completing this checklist.

### Checklist A: "Backup of SDD Patch-Related Files"

Check	klist A: "Backup of SDD Patch-Related Files"	Corresponding I	Document: None
#	Activity	Expected Results	Actual Results
A1.	Log on to the web server as a user that can perform	Admin user is logged on to the web server.	
	administrative functions on that machine.		
A2.	Stop the web server process(es) that is running SDD.	The process(es) is stopped.	
	<i>Note</i> : In a clustered web server environment, all web server		
	process(es) that are running SDD should be stopped.		
A3.	Navigate to the directory containing the SDD configuration	Navigate to that directory.	
	files.		
	Example:		
	cd /apps/bea/user_projects/domains/sdddomain/sdd/conf		
A4.	Back up the following files:	Files are copied as a backup.	
	sdd-portal.propeties		
	Example:		
	cp sdd-portal.properties sdd-portal.properties.sdd35		
A5.	Navigate to the SDD applications directory.	Navigate to that directory.	
	Example:		
	cd		
	/apps/bea/user_projects/domains/sdddomain/applications		

Checl	klist A: "Backup of SDD Patch-Related Files"	Corresponding 1	Document: None
#	Activity	Expected Results	Actual Results
A6.	Back up the following file:	File is copied as a backup.	
	sas-sdd-p21.ear		
	Example:		
	cp sas-sdd-p21.ear sas-sdd.p21.ear.sdd35		
A7.	Navigate to the SDD directory containing the version	Navigate to that directory.	
	information.		
	Example:		
	cd /apps/bea/user_projects/domains/sdddomain/sdd		
A8.	Back up the following file:	File is copied as a backup.	
	VERSION tyt		
	VERSION.tat		
	Example:		
	cp VERSION.txt VERSION.txt.sdd35		
A9.	If you are performing an upgrade from <b>SDD 3.5_05</b> or later,	Admin user is logged on to the SAS server.	
	then skip to checklist B. Otherwise, log on to the SAS server		
	as a user that can perform administrative functions on that		
110	machine.		
A10.	Stop the Resource Supervisor process for SDD on the SAS	The process is stopped.	
	Example:		
	/apps/ResourceSupervisor1/resourceSupervisor.sh stop		
A11.	Stop the Object Spawner process for SDD on the SAS server.	The process is stopped.	
	Example:		
	/apps/sas_servers/Lev1/ObjectSpawner/ObjectSpawner.sh		
A 1 2	Stop	Novigete to that directory	
A12.	wavigate to the unectory containing the SAS catalogs for SDD.	inavigate to that unectory.	
	Example: cd /apps/sas9.2/SASFoundation/9.2/nls/en/sascfg		
L	I I I I I I I I I I I I I I I I I I I	1	

Checklist A: "Backup of SDD Patch-Related Files"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
A13.	Back up the following catalogs:	Catalogs are copied as backups.	
	gdbdata.sas7bcat ibutils.sas7bcat sddtrans.sas7bcat Example: cp gdbdata.sas7bcat gdbdata.sas7bcat.sdd35 cp ibutils.sas7bcat ibutils.sas7bcat.sdd35 cp sddtrans.sas7bcat sddtrans.sas7bcat.sdd35		
	<i>Note</i> : In a clustered environment, these steps must be performed on all SAS servers in the cluster.		

Note: In a clustered environment, these steps must be performed on all web servers in the cluster.

Signature below indicates completion of Checklist A, items A1 – A13, above.

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

### Checklist B: "Copy the Patch Distribution"

Checklist B: "Copy the Patch Distribution"		Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B1.	Navigate to the <i>SASHOME</i> location on the web server. This location was defined in the installation of hot fix A80007.	Navigate to that directory.	
	Example:		
B2.	Navigate to the	Navigate to that directory.	
	<b>SASDrugDevelopmentMidTier/3.5/webserver</b> directory from within <i>SASHOME</i> .		
B3.	Copy <b>sas-sdd-p21.ear</b> to the applications directory within the WebLogic domain that SDD is installed to.	The sas-sdd-p21.ear file is copied to the applications directory.	
	Example:		
	cp sas-sdd-p21.ear		
	/apps/bea/user_projects/domains/sdddomain/applications		
B4.	Ensure that the permissions on that file match those of the other files in that directory.	The permissions are verified.	
B5.	Navigate up one directory so you are in SASHOME/SASDrugDevelopmentMidTier/3.5.	Navigate to that directory.	
B6.	Copy <b>VERSION.txt</b> to the sdd directory within the WebLogic domain that SDD is installed to.	VERSION.txt is copied to the sdd directory.	
	Example:		
	cp VERSION.txt		
	/apps/bea/user_projects/domains/sdddomain/sdd		
B7.	Ensure that the permissions on that file match those of the other files in that directory.	The permissions are verified.	

Chec	clist B: "Copy the Patch Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B8.	Navigate to SASHOME/SASDrugDevelopmentMidTier/3.5/webserver/s dd/conf.	Navigate to that directory.	
B9.	Copy the <b>sdd-portal.properties</b> file to the sdd/conf directory within the WebLogic domain where SDD is installed.	The sdd-portal.properties file is copied to the sdd/conf directory.	
	Example: cp sdd-portal.properties /apps/bea/user_projects/domains/sdddomain/sdd/conf		
B10.	Navigate to the directory where the <b>sdd-portal.properties</b> file was just copied to (the destination location).	Navigate to that directory.	
	Example: cd /apps/bea/user_projects/domains/sdddomain/sdd/conf		
B11.	Ensure that the permissions on that file match those of the other files in that directory.	The permissions are verified.	
B12.	Edit the <b>sdd-portal.propeties</b> file.	File is opened in vi editor.	
B13.	Modify the property so that the token <b>@APP_SHARE@</b> is replaced with the <i>actual value</i> of the sddshared directory:	The value of the property is modified.	
	Example: ibiomatics.sddshared.temp.dir.root=@APP_SHARE@		
	change this to:		
	ibiomatics.sddshared.temp.dir.root=/sddshared/sdd_shared		
	<i>Note:</i> The above is just an <i>example</i> of what the modified property will look like. View the backup copy of this file to see what the true value of this property should be.		

Checklist B: "Copy the Patch Distribution"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
B14.	Save the changes made to the sdd-portal.properties file.	The file is saved with changes made.	
	<i>Note</i> : In a clustered web server environment, steps B5 – B14		
	must be performed on all web servers in the cluster.		
B15.	If you are running on a <b>HP-UX IPF</b> operating system and are	Proceed to step B16 or step B20.	
	performing an upgrade from <b>SDD 3.5_04</b> or <u>earlier</u> , proceed to		
	step B16. Otherwise, skip to step B20.		
B16.	Navigate to the root directory of the WebLogic domain where	Navigate to that directory.	
	SDD is installed.		
	Example:		
	cd /apps/bea/user_projects/domains/sdddomain		
B17.	Edit the sasEnv.sh file.	File is in edit mode.	
B18.	Search for the <b>JAVA_VM</b> line and delete the <b>-d64</b> option from	Edit is made.	
	the Environment Variable. The line will look like the following		
	after the edit:		
	JAVA_VM=''-D\${KILL_FLAG} -server''		
B19.	Save the file.	File is saved.	

Check	klist B: "Copy the Patch Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B20.	<ul> <li>If you are performing an upgrade from SDD 3.5_05 or later, then skip to checklist C. Otherwise, transfer the following files from the web server to a temp directory on the SAS server:</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/Registry/checkForProcessUpdate BeforeRun.xmlreg</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/Registry/startUpStatements.xmlr eg</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/Registry/suppressInfoMsgs.xmlr eg</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/Registry/suppressInfoMsgs.xmlr eg</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/dist/SCL/cimport.sas</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/dist/SCL/cimport.sh</li> <li>SASHOME/SASDrugDevelopmentMidTier/3.5/sasserve r/ResourceSupervisor/dist/SCL/cimport.sh</li> </ul>	The files are transferred.	
B21.	On the SAS server, navigate to the location where the files were transferred.	Navigate to that directory.	
B22.	Edit the <b>cimport.sh</b> file.	File is opened in vi editor.	
	Example: <b>vi cimport.sh</b>		

Check	klist B: "Copy the Patch Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B23.	Modify the property so that the token @SAS_ROOT@ is replaced with the <i>actual value</i> of !SASROOT (root directory of SAS).	The value of the property is modified.	
	Example: @SAS_ROOT@/sas cimport.sas		
	change this to:		
	/apps/sas9.2/SASFoundation/9.2/sas cimport.sas		
	<i>Note:</i> The above is just an <i>example</i> of what the modified property will look like.		
B24.	Save the changes made to the <b>cimport.sh</b> file.	The file is saved with changes made.	
B25.	Ensure that the permissions on the <b>cimport.sh</b> and <b>cimport.sas</b> are such that they can be executed.	The permissions are verified.	
B26.	Execute the script <b>cimport.sh</b> . Example: <b>sh cimport.sh</b>	The system displays the log of the script. The log should indicate that the catalogs are updated.	
B27.	Navigate to the directory containing the SAS catalogs for SDD.	Navigate to that directory.	
	Example: cd /apps/sas9.2/SASFoundation/9.2/nls/en/sascfg		

Check	klist B: "Copy the Patch Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B28.	Change the permissions and ownership of the <b>gdbdata.sas7bcat, ibutils.sas7bcat</b> and <b>sddtrans.sas7bcat</b> catalogs so that they match those of the other files in that directory.	The permissions are modified.	
	Example: chmod 644 gdbdata.sas7bcat ibutils.sas7bcat sddtrans.sas7bcat chown sastrust:staff gdbdata.sas7bcat ibutils.sas7bcat sddtrans.sas7bcat		
B29.	Start the Object Spawner process for SDD on the SAS server. Example: /apps/sas_servers/Lev1/ObjectSpawner/ObjectSpawner.sh start Note: In a clustered SAS server environment, steps B21 – B29	The Object Spawner process is started.	
B30.	must be performed on all SAS servers in the cluster. Start the ResourceSupervisor process for SDD on the SAS server. Example: /apps/ResourceSupervisor1/resourceSupervisor.sh start	The process is started.	
B31.	Change directories to the root of the Resource Supervisor. Example: cd /apps/ResourceSupervisor1	Navigate to that directory.	
B32.	If you are performing an upgrade from <b>3.5_04</b> , <b>skip to Checklist C</b> . Otherwise, proceed to step B33.	Proceed to Checklist C or step B33.	
B33.	Launch the SDD Registry by typing: ./registryEditor.sh Note: You will need Exceed running to launch the Registry.	The SDD Registry opens.	

Chec	klist B: "Copy the Patch Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B34.	Navigate to the following location in the Registry: /registry/system/sas/ibiomatics/SDD/portal/Applications	The Applications branch is selected.	
B35.	Change the <b>Value</b> field for the <b>Key Name</b> JREVERSION to:	The Value for JREVERSION is modified.	
	1.5.0+		
B36.	Select <b>File</b> $\rightarrow$ <b>Import</b> from the SDD Registry menu.	The Open window displays allowing you to select a file to import.	
B37.	In the Open window, navigate to the temp directory location where the SAS file was transferred to and select the <b>checkForProcessUpdateBeforeRun.xmlreg</b> file.	The file is selected in the File Name: field.	
B38.	Select <b>Open</b> .	The branches, keys, and values included in the checkForProcessUpdateBeforeRun.xmlreg file are imported into the SDD Registry.	
B39.	If you are performing an upgrade from <b>3.5_03</b> , <b>skip to step B47</b> . Otherwise, proceed to step B40.	Proceed to step B47 or step B40.	
B40.	Select <b>File</b> $\rightarrow$ <b>Import</b> from the SDD Registry menu.	The Open window displays allowing you to select a file to import.	
B41.	In the Open window, navigate to the temp directory location where the SAS file was transferred to and select the <b>suppressInfoMsgs.xmlreg</b> file.	The file is selected in the File Name: field.	
B42.	Select <b>Open</b> .	The branches, keys and values included in the suppressInfoMsgs.xmlreg file are imported into the SDD Registry.	
B43.	If you are performing an upgrade from <b>3.5_02</b> , <b>skip to step B47</b> . Otherwise, proceed to step B44.	Proceed to step B47 or step B44.	
B44.	Select <b>File</b> $\rightarrow$ <b>Import</b> from the SDD Registry menu.	The Open window displays allowing you to select a file to import.	
B45.	In the Open window, navigate to the temp directory location where the SAS file was transferred to and select the <b>startUpStatements.xmlreg</b> file.	The file is selected in the File Name: field.	

Chec	klist B: "Copy the Patch Distribution"	Corresponding	Document: None
#	Activity	Expected Results	Actual Results
B46.	Select <b>Open</b> .	The branches, keys and values included in the	
		startUpStatements.xmlreg file are imported	
		into the SDD Registry.	
B47.	Select <b>File</b> $\rightarrow$ <b>Exit</b> from the SDD Registry menu.	The SDD Registry is closed.	

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

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

### Checklist C: "DBCS Configuration"

*Note:* This checklist should only be executed if you are running DBCS with either SJIS or UTF-8 *and* upgrading from SDD 3.5. If you are upgrading from SDD 3.5\_02 or later, then you should **skip to Checklist D** as these steps were completed in previous installation instructions.

Checklist C: "DBCS Configuration"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
C1.	Edit the <b>sasv9_local.cfg</b> file found in !SASROOT.	The file is open for edit.	
$C^2$	Insert the following line to the end of the file:	Line is added to the end of the file	
C2.	-insert sashelp ('!SASROOT/nls/u8/sashelp')	Line is added to the end of the file.	
C3.	Save the changes made to the <b>sasv9_local.cfg</b> file.	File is saved.	
C4.	If you are running DBCS with <b>UTF-8</b> encoding, <b>skip to step</b> <b>C8</b> . Otherwise, navigate to the ObjectSpawner.sh script found in your Lev1config. Example:	Navigate to that directory.	
C5	Edit the <b>ObjectSpawner sh</b> script	The file is open for edit	
C6.	At the beginning of this file beneath the block of #'s representing comments, change the following locale variables to the following: LANG=ja_JP.PCK LC_ALL=ja_JP.PCK LC_CTYPE= ja_JP.PCK export LANG export LC_ALL export LC_CTYPE	Edits are made.	
C7.	Save the changes made to the <b>ObjectSpawner.sh</b> script.	File is saved.	

Checklist C: "DBCS Configuration"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
C8.	Restart the Object Spawner process for SDD on the SAS server.	The Object Spawner process is started.	
	Exercise 1		
	Example: /opps/ses_servers/Lev1/ObjectSpowner/ObjectSpowner.sh		
	restart		
	Note: In a clustered SAS server environment, steps C1 - C8		
	must be performed on all SAS servers in the cluster.		
C9.	Start the ResourceSupervisor process for SDD on the SAS	The process is started.	
	server if not running already.		
	Example:		
	/anns/ResourceSupervisor1/resourceSupervisor sh start		
C10.	Change directories to the root of the Resource Supervisor.	Navigate to that directory.	
	Example:		
	cd /apps/ResourceSupervisor1		
C11.	Launch the SDD Registry by typing:	The SDD Registry opens.	
C12	JregistryEditor.sh	Duranch is displayed in the CDD Devictor	
C12.	Navigate to	Branch is displayed in the SDD Registry.	
	SDD Registry		
C13.	If this is a DBCS instance with SJIS encoding, change the	Value is changed from latin1 to siis.	
0.0.	Value field for the <b>encoding</b> Key Name to <b>sjis</b>		
C14.	If this is a DBCS instance with UTF-8 encoding, change the	Value is changed from latin1 to utf-8.	
	Value field for the encoding Key Name to utf-8		
C15.	Select <b>File</b> $\rightarrow$ <b>Exit</b> from the SDD Registry menu.	The SDD Registry is closed.	

Checklist C: "DBCS Configuration"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
C16.	If you are running DBCS with <b>UTF-8</b> encoding, <b>skip to</b> <b>Checklist D</b> . Otherwise, return to the web server and navigate to the root of the WebLogic domain. Example: ed (opportbeg(seer, projects/domains/adddomain	Navigate to that directory.	
C17	Edit the start sh script	File is in edit mode	
C17. C18.	At the beginning of this file, change the following locale variables to the following: LANG=en_US.UTF-8 LC_CTYPE= ja_JP.PCK export LANG export LC_CTYPE	Edits are made.	
C19.	Save the changes made to the <b>start.sh</b> script.	File is saved.	
C20.	Edit the <b>sasEnv.sh</b> script.	File is in edit mode.	
C21.	Add the following options to the existing JAVA_OPTIONS line in this file. You only need to add these options to the first occurrence of the JAVA_OPTIONS found in the "\${IS_SDD_SERVER}" = "true" condition.	Edits are made.	
	-Difference oung=01F-o-Duser language=en	T'1. '	
	Note: In a clustered web server environment, steps C16 - C22 must be performed on all web servers in the cluster.	File is saved.	

Signature below indicates completion of Checklist C, items C1 – C22, above.

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

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

### Checklist D: "Update the SDD Database Schema"

*Note:* If you are upgrading from **SDD 3.5\_04** or later, then you should **skip to Checklist E** as these steps would have been executed in the **SDD 3.5\_04** installation instructions. Otherwise, prior to running this checklist, Oracle patch 10.2.0.4.0 must be applied as indicated in the SDD 3.5\_04 or later System Requirements. It is recommended that the database is backed up prior to executing this checklist to ensure data integrity.

Checklist D: "Update the SDD Database Schema"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
D1.	Log on to the data server using an Oracle administrator userid. This would be the userid that created the Oracle database that is used by SDD.	Logged on to the data server.	
D2.	Transfer the <b>oracle-sdd-upgrade-35_04.sql</b> file from the web server location below to a temp area on the data server that the Oracle administrator userid has access to. Example: /apps/sas9.2/SASDrugDevelopmentMidTier/3.5/dataserver/o racle/upgrade	File is transferred.	
D3.	Type <b>env</b> to make sure the ORACLE_SID variable is set to one used for SDD.	You should see ORACLE_SID value in the listing of environment variables.	
D4.	Navigate to the location that the .sql script was transferred to and type <b>sqlplus</b>	SQL*Plus is invoked and you are prompted for your username.	
D5.	Type the username for the SDD schema. Example: <b>sdds1</b>	You are prompted for the password for this username.	
D6.	Type the <i>password</i> for the username used in the previous step.	The SQL> command prompt displays.	
D7.	Type start oracle-sdd-upgrade-35_04.sql	The oracle-sdd-updgrade-35_04.sql script runs and you will see alter table and drop index statements.	
D8.	Type quit to close SQL*Plus.	Return to UNIX prompt.	
D9.	Type <b>exit</b> to log off the data server.	User is logged off the data server.	

Signature below indicates completion of Checklist D, items D1 – D9, above.

Name (print or type):	Sign-off :	Date:
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### Checklist E: "Redeploy the Application"

Checklist E: "Redeploy the Application"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
E1.	Return to the web server and navigate to the root of the WebLogic domain.	Navigate to that directory.	
	Example: cd /apps/bea/user_projects/domains/sdddomain		
E2.	Start up the SDD web server process(es).	Web server process is started.	
	<i>Note</i> : In a clustered web server environment, all web server process(es) that are running SDD should be started.		
E3.	You must redeploy the EAR file to pick up the new SDD 3.5_07 codebase. Open an Internet Explorer window and go to https:// <webservername.domain.com>:<admin-server-https-port-number>/console</admin-server-https-port-number></webservername.domain.com>	The login page displays for the BEA console.	
E4.	Type in the userid and password to access the BEA console application.	Web browser displays the Welcome to BEA WebLogic Server Home page.	
E5.	In the left panel, select the <i>SDD domain</i> > <b>Deployments</b> (where <i>SDD domain</i> is the name of your WebLogic domain)	The Summary of Deployments page displays.	
E6.	Click <b>Lock &amp; Edit</b> in the Change Center section in the upper left part of the screen.	The Summary of Deployments page displays in Edit mode.	
E7.	Select the check box next to the <b>sas-sdd-p21</b> application and click the <b>Update</b> button.	The Update Application Assistant page displays.	
E8.	Click the <b>Finish</b> button.	The Summary of Deployments page displays.	
E9.	Click on <b>Activate Changes</b> in the Change Center in the upper left corner.	Page refreshes with the message that the changes were activated.	
E10.	Log out of the console window (web browser) by clicking on the <b>Log Out</b> button in the upper right corner of the window.	You are logged out of the console.	
E11.	Stop the web server process(es) that is running SDD. <i>Note</i> : In a clustered web server environment, all web server process(es) that are running SDD should be stopped.	The process(es) is stopped.	

Checklist E: "Redeploy the Application"		Corresponding Document: None	
#	Activity	Expected Results	Actual Results
E12.	Start up the SDD web server process(es).	Web server process(es) is started.	
	process(es) that are running SDD should be started.		

Signature below indicates completion of Checklist E, items E1 – E12, above.

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