

“How to” document guide for installation/upgrade to: AutoSys R11.0 SP4 Incremental 1 product release

This document is intended to assist AutoSys R11.0 users who are planning/implementing the migration of their current R11.0 instance(s) to the latest AutoSys R11.0 SP 4 Incremental 1 release as recommended by the CA WA Dist Support team. This document will provide a step-by-step approach of all the portions of this effort. They have been verified by a walk-through within the AutoSys Level 1 support area.

Please make sure you review and understand these various sections and their associated steps. If you have any questions, please contact the AutoSys level 1 team by opening a Support ticket by using the CA Support Site WEB page link selection from the left side labeled:

Open a Case

Within this page “Product” selection:

“CA AutoSys Workload Automation Server 1 – 2 CPUs – MULTIPLATFORM”

Understanding and then following these steps will help ensure a smooth and successful upgrade/install of the most current and highly tested/verified

AutoSys R11.0 SP4 Incremental 1 product release

Links for Downloads:

For the required AutoSys SP4 base release:

Use the CA Support Site WEB page link selection from the left side labeled:

Download Center

Within this page “Product” selection:

“CA AutoSys Workload Automation Server 1 – 2 CPUs – MULTIPLATFORM”

Within the “Select a Release” menu choose:

“R11.0”

Within the “Select a Gen Level” menu choose:

“SP4”

You will now see a list of ISO files for the AutoSys R11.0 SP4 product release that will need to be downloaded in order to perform the first step of this procedure. The details for this are listed below based on Platform and Component.

For the required AutoSys Incremental 1 patch to be applied to the AutoSys R11.0 base release, Go to the following link, (Note, you may be requested to supply your CA Support On-line users ID and Password to gain access.)

https://support.ca.com/iri/portal/anonymous/phpdocs?filePath=0/253/253_11_patchindex.html

As with the base release ISO, you will need to select the patch appropriate for your platform.

Planning – Basic safety consideration and High level architecture topics

First obtain current System and database backups/snapshots

Are you running with “Dual Schedulers”? -See Last section of document

Are you running with “Dual Databases”? -See Last section of document

The following are the upgrade implementation steps for the various certified platforms supported by AutoSys T11.0 SP4:

Linux/UNIX AutoSys Server /Agent/Client R11 SP4

NOTE: autosys may startup after install if you have chosen to autostart with original install

Media Distribution:

#DVD10123955E.iso

1. #Locate and mount media
2. #login as root
3. `unisrvctr stop` # stop services, i.e. `> uajm_agent uajm_sched.ACE uajm_server.ACE`
4. `ps -ef | grep auto_rem` #should be no running auto_remote processes – kill if necessary
5. `ustat` # verify all services are stopped
6. `set | more` # make sure \$AUTO* and CSAM* variables are set – source
/opt/CA/UnicenterAutoSysJM/autouser.ACE/autosys.<shell>.<host> if necessary
7. `$CSAM_SOCKADAPTER/bin/csampmux stop` # stop pmux - response should be “0”
8. `$CSAM_SOCKADAPTER/bin/csampmux status` # verify not running/responding
9. #cd to media directory
10. `uajm_setup.sh` # run install
11. #select “repair” NOTE: there is no upgrade option, this is appropriate for upgrade
12. #select “next”
13. #select “next” – proceed to end of upgrade (repair)
14. Verify version and function
 - `autoflags -a` # should output “ 86 <OS> ANY 11.0 0 <unique#> <hostname>”
 - #autosys will be running so you can schedule a test job

Linux/UNIX AutoSys Server SP4 INCR1

Published fix numbers:

#RO25620 & RO25627 = Solaris (sparc)

#RO25621 = AIX

#RO25622 = HP-UX

#RO25623 = Linux

1. #Locate appropriate fix and place in a working directory (i.e. /tmp/patch)
2. #verify login as root
3. `unisrvctr stop` #stop services i.e. `> uajm_agent uajm_sched.ACE uajm_server.ACE`
4. `ustat`# verify all services are stopped
5. `ps -ef | grep auto_rem` #no running auto_remote processes – kill if need be
6. `set | more` # make sure \$AUTO* variables are set – source
/opt/CA/UnicenterAutoSysJM/autouser.ACE/autosys.<shell>.<host> if necessary
7. `$CSAM_SOCKADAPTER/bin/csampmux stop` # stop pmux - response should be “0”
8. `$CSAM_SOCKADAPTER/bin/csampmux status` # verify not running/responding

9. #uncompress and extract tar.Z file in working dir (/tmp/patch)
10. chmod 755 ./tmp/patch/Install_INCR.sh # substitute your working directory
11. ./Install_INCR.sh -S RO25623 ORA "sys as sysdba" orcl manager -nr # nr = no restart
 - #example is oracle - usage obtained by running "Install_INCR.sh"
12. Verify version and function
 - autoflags -a # output i.e. "INC1 <OS> ANY 11.0 SP4 <unique#> <hostname>"
 - If no HA then startup
 - Proceed with HA Steps if are applicable

Linux/UNIX AutoSys Client/Agent R11 SP4 INCR1

Published fix numbers:

```
#RO25620 = Solaris (sparc)
#RO25621 = AIX
#RO25622 = HP-UX
#RO25623 = Linux
```

1. #Locate appropriate fix and place in a working directory (i.e. /tmp/patch)
2. #verify login as root
3. set | more # make sure \$AUTO* variables are set – source
/opt/CA/UnicenterAutoSysJM/autouser.ACE/autosys.<shell>.<host> if necessary
4. unisrvctr stop uajm_agent # stop agent
5. ps -ef | grep auto_rem #no running auto_remote processes – kill if need be
6. \$CSAM_SOCKADAPTER/bin/csampmux stop # stop pmux - response should be "0"
7. \$CSAM_SOCKADAPTER/bin/csampmux status # verify not running/responding
8. #uncompress and extract tar.Z file in working dir (/tmp/patch)
9. chmod 755 ./tmp/patch/Install_INCR.sh # substitute your working directory
10. ./Install_INCR.sh -C RO25623 ORA foo foo foo -nr # nr = no restart
 - #db connect info required, but not used. For usage run "Install_INCR.sh"
11. Verify version and function
 - autoflags -a # output i.e. "INC1 <OS> ANY 11.0 SP4 <unique#> <hostname>"
 - Review /tmp/INCR_install log for errors
 - Startup if "-nr" option was used "unisrvctr start uajm_agent"

Linux/UNIX UWCC R11.1 SP2.041

Media Distribution:

#Note: AIX and HP-UX platforms are not available

#DVD01103731E.iso

1. #Locate and mount the appropriate media
2. #Login as root
3. set|more # make sure \$CA_WCC_INSTALL_LOCATION is set. If not source
/etc/profile.CA
4. ./UnixInstaller.sh # execute installer
5. #option 1 - Install CA Workload Control Center" This option required for upgrade

6. #option 1 again to go next
7. #Enter to read/scroll EULA text
8. #option 1 if you accept the EULA
9. #option 2 for reinstall mode - required for upgrade, will not lose existing install
10. #option 1 assume all the defaults
11. #next through the rest of the install observing defaults (should be your current config)
12. #provide eem password
13. #leave default for keeping current policies - aka do not overwrite existing"
14. #allow the installer to run to completion
15. #0 to exit when the install completes

Linux/UNIX UWCC R11.1 SP2.041 INCR 1

Published fix numbers:

#AutoSys Api Patches

#RO25620 = Solaris (sparc)

#RO25621 = AIX

#RO25622 = HP-UX

#RO25623 = Linux

#UWCC INCR 1

#RO25626 & RO25628

1. #Put appropriate AutoSys patch in a working directory (i.e. /tmp/patch)
2. #uncompress and extract patch
3. #verify login as root
4. chmod 755 ./tmp/patch/Install_INCR.sh # substitute your working directory
5. ./Install_INCR.sh -W RO25623 ORA foo foo foo -nr # nr = no restart
 - #db connect info required, but not used. For usage run "Install_INCR.sh"
6. #Option "y" to stop services (if running)
7. #Default install location, if correct, should be selected
8. #Observe std out for errors
9. #Put RO25626 & RO25628 patches in their own working directories
10. #Uncompress and extract patches.
11. #cd to location of RO25626
12. echo \$JAVA_HOME # make sure points to the CA JRE under SharedComponents
13. PATH=\$JAVA_HOME/bin:\$PATH; export PATH # prepend CA Bundled Java
14. java -version # note the java version, it will be applicable per RO25626.TXT
15. mv Fix_UNIX_jre_1_5.JCL RO25626.JCL # refer to RO25626.TXT for instructions
16. perl ./WCCPatchTool.pl INSTALL RO25626 # execute upgrade
17. #upon completion of RO25626, cd to the working dir containing RO25628
18. mv Fix_UNIX_jre_1_5.JCL RO25628.JCL # again, refer to RO25628.TXT
19. perl ./WCCPatchTool.pl INSTALL RO25628 # execute upgrade
20. \$CA_WCC_INSTALL_LOCATION/uejmver.sh #Verify upgrade looking for
 - RO25628 and RO25626
 - Login and verify function in UWCC

Linux/UNIX EEM 8.4.401 (aka EEM 8.4 SP4CR01) # comes with 11.3 CCC

Media Distribution:

DVD08134328E.iso

If going to AutoSys R11 SP4 INCR 1 in this upgrade, install EEM 8.4.402 and skip 401

If only going to AutoSys R11 SP4 (not INCR 1):

- Perform this install - CCC 11.3 will not be required on the eem system as this step will upgrade all components

1. #Locate and mount media
2. #verify login as root
3. # Be certain that the env is setup - source /etc/profile.CA if it is not
4. #cd to media location
5. ./ccc_setup.sh # execute install script
6. #choose "update / reinstall"
7. #it will want to stop services if they are running, choose "next" accepting that
8. #choose "next"
9. #once the install completes choose "finish"
10. #Check version
 - grep Version \$IGW_LOC/iPoz.conf #should say 8.4.401
 - #log into eem gui and locate "about" link to right - should say 8.4.401

Linux/UNIX EEM 8.4.402 (aka EEM 8.4 SP4CR02) # Downloaded, and part of AutoSys SP4 INCR 1

Published fix numbers:

RO25608 = Solaris (sparc)

RO25609 = AIX

RO25610 = HP-UX

RO25611 = Linux

1. #login as root
2. #extract fix to its own working directory
3. chmod 755 EEMServer_8.4.402_linux.sh # sets permissions on the install script
4. # make sure dxserver and igateway are running (ps -ef |grep dxserver etc..)
5. # specify JAVA_HOME as /opt/CA/SharedComponents/JRE/1.5.0_11 # default
6. # set PATH to \$JAVA_HOME/bin:\$PATH
7. ./EEMServer_8.4.402_linux.sh
8. # read and agree to EULA (type "yes") when prompted
9. #accept backup dir
10. #type "yes" to proceed with install
11. #Check version
 - grep Version \$IGW_LOC/iPoz.conf #should say 8.4.402
 - #log into eem gui and locate "about" link to right - should say 8.4.402

Linux/UNIX Secure Socket Adapter (SSA) 2.1.43

#Published fix numbers:

#RO25613 = Solaris (sparc)

#RO25614 = AIX

#RO25615 = HP-UX

#RO25616 = Linux

1. #Put appropriate patch in a working directory (i.e. /tmp/patch)
2. #verify login as root
3. #uncompress and extract patch
4. unisrvctr stop <services_to_be_stopped> # stop all services
5. ustat # verify services are stopped
6. echo \$CSAM SOCKADAPTER # should be set
7. \$CSAM SOCKADAPTER/bin/csampmux stop # stop pmux - response should be "0"
8. \$CSAM SOCKADAPTER/bin/csampmux status # verify not running/responding
9. java -version #check java version - should be 1.5 or greater
10. # if java is 1.4 then do the following:
11. # locate the CA JRE:
 - #normally under /opt/CA/SharedComponents/JRE/1.5.0_11
 - #export JAVA_HOME=/opt/CA/SharedComponents/JRE/1.5.0_11 #
#export PATH=\$JAVA_HOME/bin:\$PATH
12. chmod 755 ./CASockAdapterSetupLinux.bin # set permissions
13. ./CASockAdapterSetupLinux.bin -silent # make sure is set - should take < 5min
14. cat \$CSAM SOCKADAPTER/version.txt # check version, should be 2.1.43

Linux/Unix CA Common Components (CCC) 11.3

#Media Distribution:

#DVD08134328E.iso

1. #Locate and mount media
2. #verify login as root
3. # Be certain that the env is setup - source /etc/profile.CA if it is not
4. #cd to media location
5. ./ccc_setup.sh # execute install script
6. #choose "update / reinstall"
7. #it will want to stop services if they are running, choose "next" accepting that
8. #choose "next"
9. #once the install completes choose "finish"

Windows AutoSys Server /Client/Agent SP4

Media Distribution:

#DVD10124211E.iso

1. #login as administrator and mount media
2. # Optional for agent machine
 - Bring machine offline "sendevent -E MACH_OFFLINE -N <agent_hostname>"
3. #Stop services via autosys administrator or service console
 - Run task manager and check for auto_remote.exe (wait for or end old processes)
4. #Setup.exe # run the installer
5. #Select Unicenter AutoSys Job Management
6. #Click "install" button
7. #Click "repair" radio button
8. #Click "next" twice
9. #Optionally check the veiew readme and finish, and exit from the install shield
10. #Verify via autosys admin or taskmgr that the agent is back up
11. #Optional for agent
 - Bring machine online "sendevent -E MACH_ONLINE -N <agent_hostname>"
 - # autoflags -a # should output " 86 <OS> ANY 11.0 0 <unique#> <hostname>"

Windows AutoSys Server/Client/Agent SP4 INCR 1

Published fix numbers:

#RO25619

1. #login as administrator and mount media
2. #Applicable to agent machine
 - sendevent -E MACH_OFFLINE -N <agent_hostname> # Bring agent offline
3. #Stop services via autosys administrator or service console
 - #Run task manager and check for auto_remote.exe (wait for or end old processes)
4. # uncompress and extract patch in a working directory
5. #Bring up Autosys Admin
6. #Stop services via autosys administrator or service console
 - #Run task manager and check for auto_remote.exe (wait for or end old processes)
7. #Be certain you have exited the autosys administrator
8. #Run task manager and verify there are no auto_remote.exe's running
9. Install_INCR_NT.bat -C c:\patch ORA sys manager autodb # NOTE: Example is autosys client, with ORA - executing " Install_INCR_NT.bat" to get usage
10. #Applicable to agent machine
 - autoflags -a # output i.e. "INC1 <OS> ANY 11.0 SP4 <unique#> <hostname>"

- #Upon completion start autosys via autosys administrator or service console
- sendevent -E MACH_ONLINE -N <agent_hostname> #bring agent back online

11. #Applicable for Server

- If HA, please continue with HA instructions
- If upgrade ends on this server, proceed with starting up server

Windows UWCC R11.1 SP2.041

Media Distribution:

#DVD01103438E.iso

1. #login as administrator and mount media
2. #Run the PE_i386.EXE installer
3. #Select "Install CA Workload Control Center"
4. #Click "INSTALL"
5. #Click "NEXT"
6. #Agree to the EULA
7. #Click "NEXT"
8. #Click "Reinstall Mode:..." - NOTE This option is what is used to upgrade
9. #Click "NEXT"
10. #Proceed through the install accepting defaults, accept current registration with EEM - it should pick up that your application has already registered. Do not reregister with EEM unless you wish to overwrite policies.
11. #check the version
 - cd %CA_WCC_INSTALL_LOCATION%
 - .\uejmver.bat # version should be Level: 11.1 SP: 2 BLD: 41

Windows UWCC R11.1 SP2.041 INCR 1

Published fix numbers:

RO25619, RO25626 & RO25628

1. #login as administrator and copy patches to system
2. # uncompress and extract each patch to their own working directory
3. #start cmd prompt
4. #cd to location of working dir for RO25619
5. Install_INCR_NT.bat -W C:\patch # run the AutoSys INCR 1 update
6. #default locations should be verified to be correct, and then selected
7. #cd to location of working dir for patch RO25626
8. java -version # note the version
9. echo %CA_WCC_INSTALL_LOCATION% # make sure this env var is set
10. move Fix_Windows_jre_1_5.JCL RO25626.JCL # move appropriate file - see readme RO25626.TXT for details
11. WCCPatchTool.exe install RO25626 # run installer
12. # after patch RO25626, do the same for RO25628
13. #cd to location of working dir for patch RO25628

14. move Fix_Windows_jre_1_5.JCL RO25628.JCL # move appropriate file - see readme RO25628.TXT for details
15. WCCPatchTool.exe install RO25628 # run installer
16. #check the version
 - cd %CA_WCC_INSTALL_LOCATION%
 - .\uejmver.bat # version should be Level: 11.1 SP: 2 BLD: 41
 - #Currently applied patches should be reflected as:
RO25626 and RO25628 NOTE: RO25619 will not be listed
17. #Verify function

Windows EEM 8.4.401 (aka EEM 8.4 SP4CR01) # comes with 11.3 CCC

Media Distribution:

If going to AutoSys R11 SP4 INCR 1 in this upgrade, install EEM 8.4.402 and skip 401
 # If only going to AutoSys R11 SP4 (not INCR 1) then perform this install
 # DVD08134106E.iso

1. #login as administrator and mount media
2. #select "CA Common Components"
3. #click "install"
4. #Click "add/modify", then click next
5. #Read/accept EULA, then click "next"
6. #Applicable Components should be selected, click "next"
7. #Provide EiamAdmin "EEM" password, click "next"
8. #Click "install"
9. #Click "Done" when it completes
10. #Verify version
 - #log into eem gui and locate "about" link to right - should say 8.4.401

11. Windows EEM 8.4.402 (aka EEM 8.4 SP4CR02) # Downloaded, and part of AutoSys SP4 INCR 1

#Published fix number:

#RO25607

1. #login as administrator and copy patch to the system
2. #uncompress and extract patch to its own working directory
3. #execute "EEMServer_8.4.402_win32.exe"
4. #click "next"
5. #read and accept EULA, and click "next"
6. #Click "next" on the default backup location, or provide alternative if desired.
7. #specify JAVA_HOME - use CA' JRE directory under %CASHCOMP% example:
C:\Program Files\CA\SC\JRE\1.5.0_11
8. #click "next"
9. #when the install completes click "finish"
10. Verify version
 - # cd %CASHCOMP%\EmbeddedIAM
 - #review log "eiam-install.log" and make sure no errors
 - #log into eem gui and locate "about" link to right - should say 8.4.402

Windows Secure Socket Adapter (SSA) 2.1.43

#Published fix number

#RO25612

1. #Copy patch into working directory (i.e. c:\patch)
2. #extract patch
3. #stop all autosys services (use autosys administrator or service manager)
4. #open cmd prompt (autosys cmd prompt if applicable)
5. echo %CSAM_SOCKADAPTER% # should be set
6. cd %CSAM_SOCKADAPTER% # change to csam dir
7. CSAMPmux.exe stop # stop CA Connection Broker
8. CSAMPmux.exe status # should be "No Listeners"
9. Install_SSA.bat -silent #
10. #use a text editor to verify version change
 - C:\Program Files\CA\SC\Csam\SockAdapter\version.txt (should say 2.1.43)
11. #Proceed with next install or startup agent

Windows CA Common Components (CCC) 11.3

Media Distribution:

#DVD08134106E.iso

1. #login as administrator and mount media
2. #select "CA Common Components"
3. #click "install"
4. #Click "add/modify", then click next
5. #Read/accept EULA, then click "next"
6. #Applicable Components should be selected, click "next"
7. #Click "install"
8. #Click "Done" when it completes

Dual DB / AutoSys HA Steps

1. #Login as root or administrator
2. # for Dual Database
 1. Both DB's should be in synch, but if not, determine the most current db.
 2. Verify all schedulers are down (primary, shadow, tiebreaker)
 3. Login to DB with privileged user and manually run the sql upgrade for SP4, and then the db update for SP4 INCR 1 - do this step on both databases.
i.e. (sqlplus "sys@<tns_alias> as sysdba" @<path_to_mdbsql.sql>

sqlplus "sys@orcl1 as sysdba"

@/opt/CA/UnicenterAutoSysJM/autosys/dbobj/ORA/autosys-mdb-patch-SP4.sql

NOTE: Patch location for SP4 INCR 1 will be the same location, but labeled as "autosys-mdb-patch-SP4_INCR1_ORA.sql"

4. Synchronize the databases
 - cd to appropriate dbobj dir (i.e. cd \$AUTOSYS/dbobj/ORA)
 - #run the autobcp "perl ./autobcpORA.pl"
 - 1.#provide source (or current db to be copied)
 - 2.#provide destination db, usually secondary db
 - 3.#mdbadmin user's password
 - 4.#dump name (default is usually fine)
 - 5.#ORACLE_HOME if not defined
 - 6.#confirm if ok to delete data in secondary db
3. # for Dual Scheduler
 - Be aware of autostart after sp4 upgrade
 - Use "-nr" when applying the INCR 1 patch to prevent restart
 - Always start Primary scheduler, then Shadow, and Tiebreaker (if applicable), in that order, after the upgrades are completed