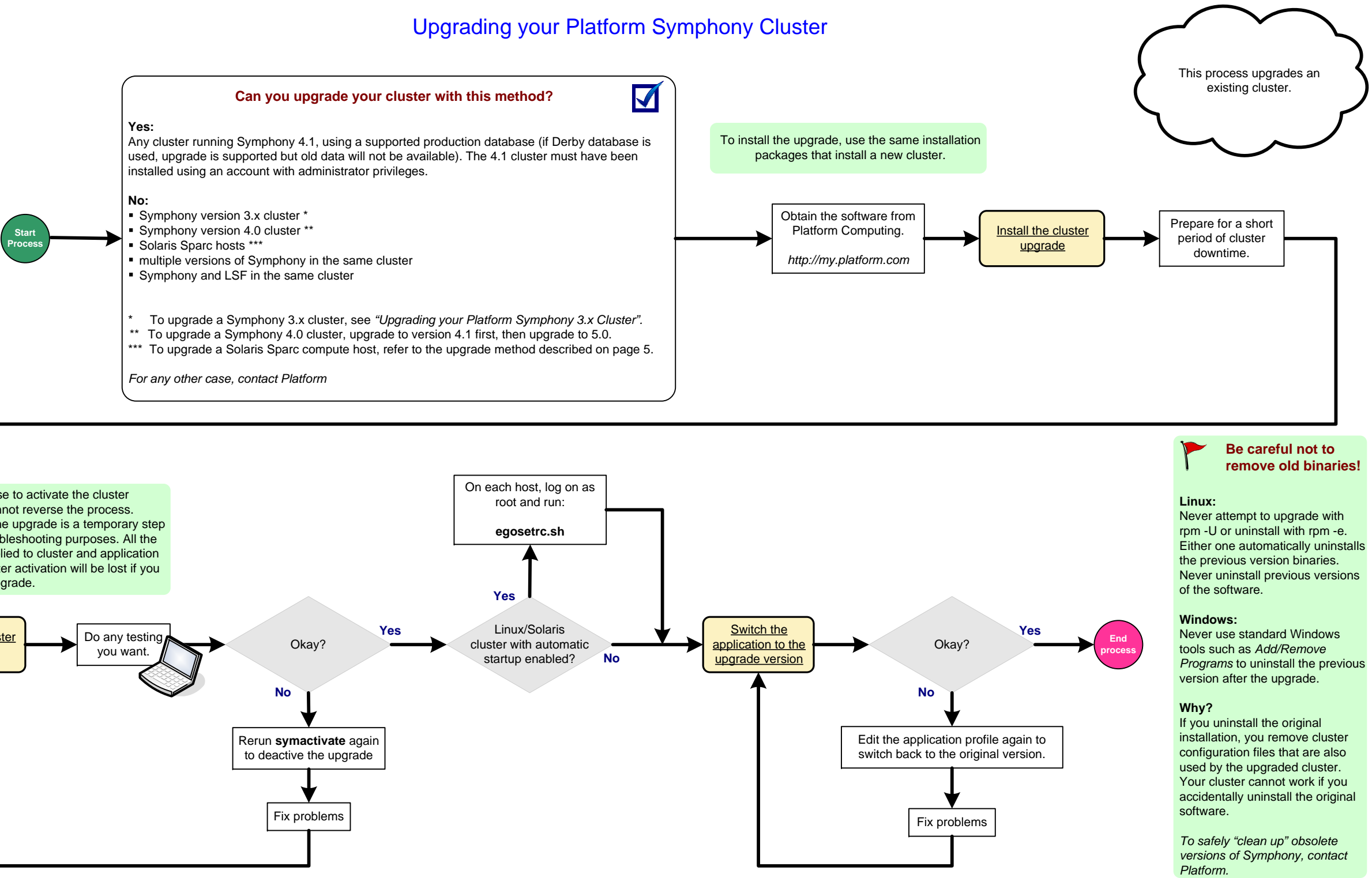


Upgrading your Platform Symphony Cluster



Installing the Upgrade

Upgrading your cluster to Symphony 5.0 preserves Symphony 4.x functionality:

- upgrading preserves the cluster configuration
- upgrading preserves the historical data for reporting
- after upgrade, your existing 4.x applications can run immediately
- you decide when to upgrade your existing applications to use version 5.0 functionality; keep the Symphony 4.x functionality in the cluster for as long as you wish to continue using your 4.x applications
- Symphony clients version 3.1, 3.2, and 4.x can all interact with the upgraded cluster, no need to upgrade clients (if you add Symphony 5.0 clients, remember they cannot interact with 4.x applications)
- new applications are created as version 5.0

A Symphony 5.0 cluster created through the normal new cluster installation cannot run applications under a Symphony 4.x environment.

This process installs the upgrade on the hosts.

Installation phase does not interfere with the running cluster:

- installation puts the upgrade version 5.0 binaries on each host
- no changes to runtime environment for existing applications...
- no impact on cluster operation. Symphony continues to run and applications use the existing 4.x binaries, even after the installation of upgrade version binaries
- set your own schedule for performing the installation on each host
- after all hosts have the new software installed, choose your own time to activate the upgrade at the cluster level

If you activate the upgrade at the cluster level without installing the upgrade on a particular host, the cluster works but that host does not support Symphony 5.0 functionality and may no longer support Symphony 4.x functionality. You can install and activate the upgrade on that host at a later time.

RPM versions earlier than 4.2.x require the RPM_INSTALL_PREFIX environment variable (instead of the --prefix option)

Except for installation directory, all environment variables required for installation of a new cluster are ignored when installing the upgrade.

Run the installer, use the same installation directory and database directory as the original cluster.

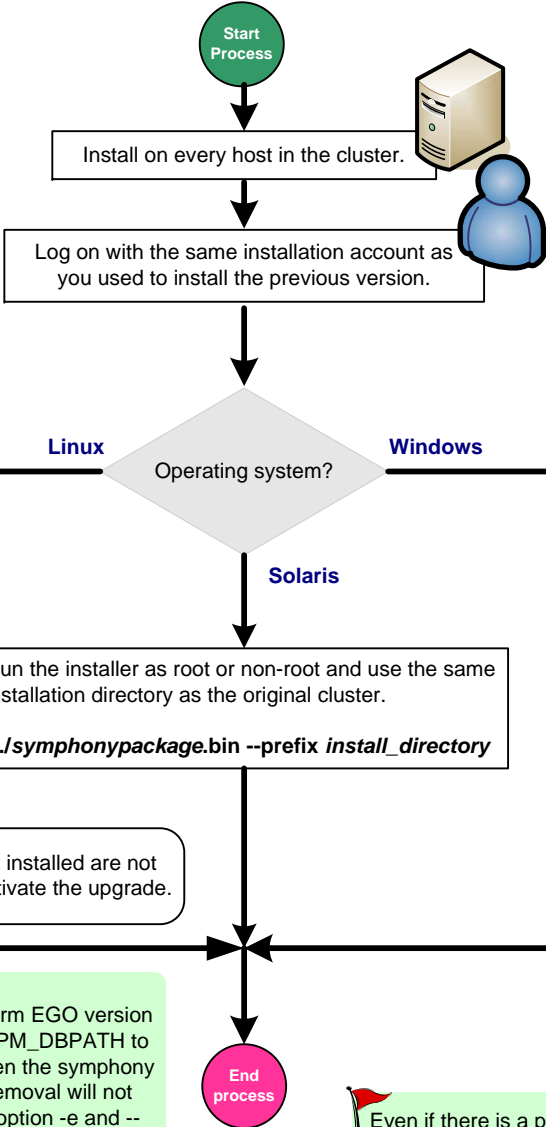
- installing as root :
`./symphonypackage.bin --prefix install_directory`
- installing as non-root:
`./symphonypackage.bin --dbpath db_directory --prefix install_directory`

Never use `rpm -U` to upgrade EGO or SOAM components. If you must use .rpm packages to install, use `rpm -i` (as a new installation), use `--force`, and install the EGO package first. The installer will install the upgrade properly.

`rpm -ivh --force --prefix install_directory ego_package.rpm`
`rpm -ivh --force --prefix install_directory soam_package.rpm`

Installing the upgrade will remove Platform EGO version 1.2.3u1 from the RPM database. Set RPM_DBPATH to the path which "--dbpath" pointed to when the symphony 4.1 cluster was installed; otherwise, removal will not succeed and you will need to run rpm option -e and --justdb to remove it manually.

Even if there is a problem on the host, DO NOT use standard OS tools to uninstall Symphony 5.0.



Activating the Upgrade

This process activates the upgrade in an existing cluster.

Activation phase enables Symphony 5.0 functionality quickly and safely:

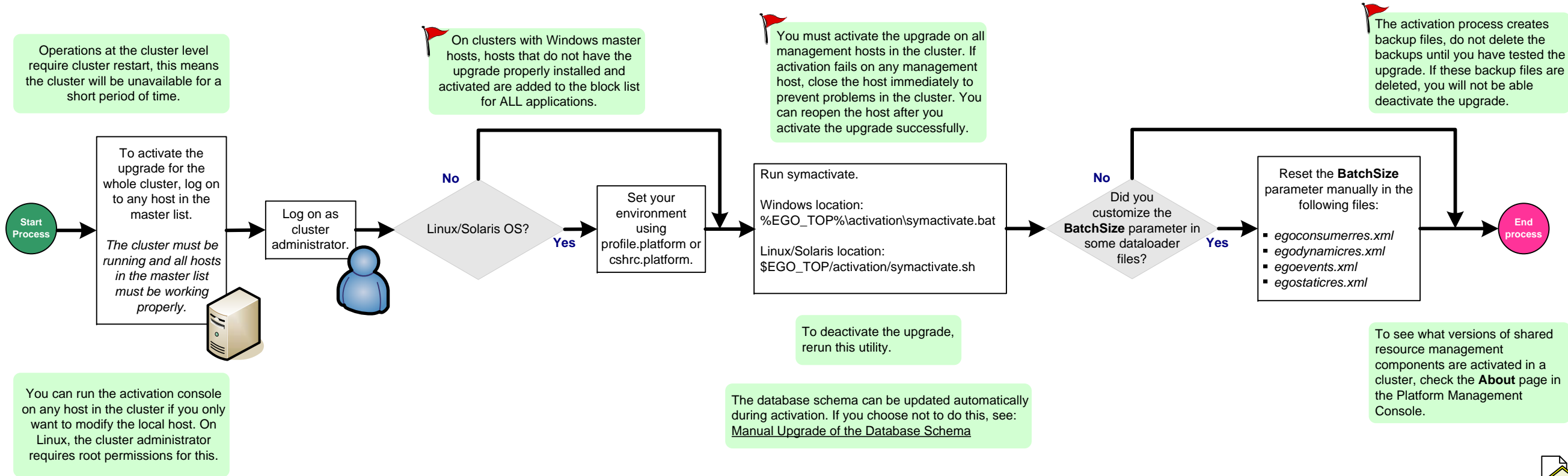
- the Activation Console automates the process, it is available on every host after installation
- activating the upgrade at the cluster level affects all hosts in the cluster at once
- activation sets configuration and environment to the upgrade version, and shared resource management components all switch to using the upgraded version of the binaries (EGO, PMC, PERF, SD)
- SOAM components on each host switch to using the upgraded version of the binaries
- the process automatically verifies the success of the activation
- the process automatically backs up application profiles and configuration files for all hosts and EGO services
- binaries from the previous version are preserved

Activation is low-risk: if the cluster has any problem after activation, the cluster can be deactivated in the same way -- no need to uninstall or reinstall.

Deactivation option is available for troubleshooting:

- the Activation Console that automates the process is available on every host after installation
- deactivation is as easy as activation; with simple configuration and environment changes, you can temporarily restore the cluster to the previous working state
- EGO service configuration is restored from backup (use binaries from previous version). This includes consumers, resource plans, applications, users and passwords.
- specific host configuration is restored from backup (use binaries from previous version)
- applications using the upgrade version are disabled

Deactivation does not restore old workload, remove data from the database, or remove packages deployed to the repository. There is no need to modify data schema, the upgraded data schema is backwards compatible.



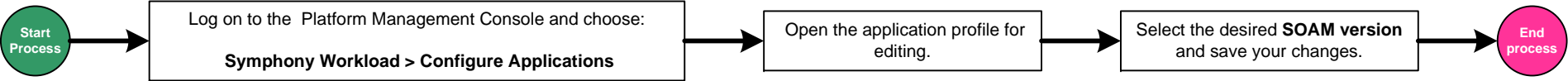
Switching the Application

This process switches the application to the upgrade version.

Application switching is easy:

- the Platform Management Console automates the process
- any existing application can take advantage of the upgrade version functionality just by switching to the upgrade version
- set your own schedule to switch each application individually, at your convenience

If you discover any problem after switching the application, just switch it back to the previous version.



Upgrade Solaris Sparc hosts

Before you start

1. Untar the Solaris Sparc compute host package into a local directory, for example, /opt/sym50.
2. Copy the following files and directories from the existing Sparc compute directory:
 - SYM_TOP/profile.platform
 - SYM_TOP/cshrc.platform
 - SYM_TOP/kernel/conf/*
 - SYM_TOP/soam/conf/*
 - SYM_TOP/soam/old_version/* where *old_version* = 4.0 or 4.1

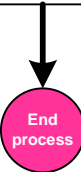
Start cluster upgrade

1. Shut down all Sparc compute hosts.
2. Perform direct upgrade and activation on all Linux and Windows hosts. Verify cluster is running properly.
3. Rename the old version directory. For example, if the old directory is opt/symphony, rename it to /opt/symphony.old.
4. Rename the new install directory. For example, rename /opt/sym50 to /opt/symphony.
5. Change EGO_VERSION from 1.2.3u1 to 1.2.3u2 in cshrc.ego or profile.ego.
6. Change SOAM_VERSION from 4.1 to 5.0 in cshrc.soam or profile.soam.
7. Source the new environment. For example, for csh, enter source cshrc.platform.
8. To set the new sudoers entry in the sudoers file, run:
\$EGO_SERVERDIR/egosetsudoers.sh -p
9. To set the Symphony startup command, run:
\$EGO_SERVERDIR/egosetrc.sh
10. Start the new version of Symphony locally.




Rollback

1. Shut down all Sparc compute hosts running with the new Symphony version.
2. Perform de-activation of the cluster.
3. Rename the new version directory. For example, if the new directory is opt/symphony, rename it to /opt/sym50.
4. Restore the name of the old install directory. For example, rename /opt/symphony.old to /opt/symphony.
5. Source the old environment. For example, for csh, enter source cshrc.platform.
6. Start the old version of Symphony locally.



Manual Upgrade of the Database Schema

The cluster cannot write new data to the database until you update the database schema.

 The database schema may be upgraded automatically during the activation phase. If this was successful, do not perform the steps in this section.

Optional method to upgrade the database schema manually

