Migrating from HP-UX 11.x to HP-UX 11.23

This section describes the procedure for migrating your existing Cell Manager from a PA-RISC architecture based HP-UX 11.x system to an HP-UX 11.23 system for the Intel Itanium 2 (IA-64) architecture.

Limitations

See the *HP OpenView Storage Data Protector Software Release Notes* for details on supported operating system versions, platforms, processors and Data Protector components as well as required patches, general limitations, and installation requirements.

- The migration is supported only from the Data Protector A.05.50 Cell Manager on a PA-RISC based HP-UX 11.x system.
- For the supported combinations of MoM configurations, refer to "MoM Specifics" on page 302.

Recommendation

- It is recommended to perform the conversion of file names in the IDB prior to migration. Refer to "Conversion of File Names in the IDB" on page 284.

Licenses

The new Cell Manager (IA-64 system) will have a different IP address as the old Cell Manager, therefore you should apply for the licenses migration prior to the migration. For a limited amount of time, licenses on both system will be operational. If licenses are based on an IP range and the new Cell Manager's IP address is within this range, no license reconfiguration is necessary. Refer to "License Migration to Data Protector A.05.50 and A.05.10" on page A-16 for details.

NOTE

GUI is not supported on HP-UX 11.23. However, you can use the `omniusers` command to create a remote user account on the new Cell Manager. You can then use this user account on any system with the Data Protector GUI installed to start the GUI and connect to the new Cell Manager. Refer to the `omniusers` man page.

Migration Procedure

Perform the migration procedure as follows:

1. Install a Data Protector client on the IA-64 system and import it to the old Cell Manager's cell. If you are planning to configure Data

Protector in a cluster, install the client on the primary node. Refer to “Installing HP-UX Clients” on page 64.

2. Run the following command on the *old* Cell Manager to add the hostname of the IA-64 system to the list of trusted hosts on secured clients:

   `omnimigrate.sh -prepare_clients` *<New_CM_Name>*, where the *<New_CM_Name>* is the client name of the IA-64 system from the previous step.

   For more information about trusted hosts and securing Data Protector clients, refer to “Securing Clients” on page 197 and “Host Trusts” on page 207.

3. Back up the IDB. Refer to the online Help index keyword “IDB backup”.

4. Restore the IDB to a temporary location on the IA-64 system. Refer to online Help index keyword “IDB restore”.

5. Uninstall the Data Protector client from the IA-64 system. Refer to “Uninstalling a Data Protector Client” on page 213.

6. Install Data Protector Cell Manager on the IA-64 system. If you are planning to configure Data Protector in a cluster, install the Cell Manager on the primary node as a *standalone* Cell Manager (not cluster aware). Refer to “Installing the Data Protector Cell Manager (CM) and Installation Server(s) (IS)” on page 19.

7. If you changed the default Data Protector Inet port on the old Cell Manager, set the same Inet port also on the new Cell Manager. Refer to “Changing the Default Port Number” on page 24.

8. Move the restored IDB (residing in a temporary location on the new Cell Manager), and configuration data to the same location on the new Cell Manager as it was on the old Cell Manager. Refer to online Help index keyword “IDB restore”.

   If the old Cell Manager was cluster-aware, comment out the `SHARED_DISK_ROOT` and `CS_SERVICE_HOSTNAME` variables in the `/etc/opt/omni/server/sg/sg.conf` file. This is necessary even if the new Cell Manager will be cluster-aware.

9. To migrate the IDB and clients to the new Cell Manager, and to reconfigure the Cell Manager's settings, perform the following steps on the *new* Cell Manager:

   - If you want to configure a standalone IA-64 Cell Manager:

     a. Run the `omnimigrate.sh -configure` command. Refer to the `omnimigrate.sh` man page.

   - If you want to configure a cluster-aware IA-64 Cell Manager:

     a. Run the `omnimigrate -configure_idb` command to configure the IDB from the old Cell Manager for use on the new Cell Manager. Refer to the `omnimigrate.sh` man page.

     b. Run the `omnimigrate -configure_cm` command to reconfigure the configuration data transferred from the old Cell Manager for use on the new Cell Manager. Refer to the `omnimigrate.sh` man page.

     c. Export the old virtual server from the cell by running the `omnicc -export_host` *<Old_CM_Name>*.

     d. Configure the primary and secondary Cell Manager. Refer to the online Help index keyword "MC/ServiceGuard integration configuring".

     e. Run the `omnimigrate -configure_clients` command to migrate the clients from the old Cell Manager to the new Cell Manager. Note that the old Cell Manager will keep the clients in the configuration files although it will not be their Cell Manager anymore.

NOTE If the `/etc/opt/omni/server` directory is located on the shared cluster volume, the configuration changes made by the `omnimigrate.sh` script will affect all nodes in the cluster.

NOTE The old Cell Manager will automatically become a client in the new cell. You can uninstall the Cell Manager component from the old Cell Manager, because it is not necessary anymore. Refer to "Changing Data Protector Software Components" on page 223.

10. Configure the licenses on the new Cell Manager. Refer to “Data Protector A.05.50 Product Structure and Licenses” on page A-3.
11. Create a remote user account on the new Cell Manager and use the newly created user account on any other system with the Data Protector GUI installed to start the GUI and connect to the Cell Manager. Refer to the `omniusers` man page for details.
12. Additional steps are required if the following is true:
    - Your cell is a part of the MoM environment. Refer to “MoM Specifics” on page 302
    - Your cell works across a firewall. Reconfigure all firewall related settings on the new Cell Manager. Refer to online Help index keyword “firewall environments”.
    - You want to have an Installation Server on your new Cell Manager. Refer to “Installation Server Specifics” on page 303.

MoM Specifics

If the new Cell Manager will be configured in the MoM, additional steps are required after the basic migration procedure has been completed. The required steps depend on the configuration of the MoM for the old and new Cell Managers in your environment. The supported combinations are:

- The old Cell Manager was a MoM client; the new Cell Manager will be a MoM client of the same MoM Manager.

  Perform the following steps:

  1. On the MoM Manager, export the old Cell Manager from the MoM Manager cell and import the new Cell Manager. Refer to the online Help index keyword “client systems exporting”.
  2. Add the MoM administrator to the users list on the new Cell Manager. Refer to the online Help index keyword “MoM administrator, adding”.

- The old Cell Manager was a MoM Manager; the new Cell Manager will be a MoM Manager.

  If the old MoM Manager was the only client in the MoM, no action is necessary. Otherwise, perform the following steps:

  1. On the old MoM Manager (the old Cell Manager), export all MoM clients.
  2. On the new MoM Manager (the new Cell Manager), import all MoM clients.
  3. Add the MoM administrator to the users list on all MoM clients.

NOTE GUI is not supported on HP-UX 11.23. However, you can use `omniusers` command to create a remote user account on the new Cell Manager. You can then use this user account on any system with the Data Protector MoM GUI installed to start the MoM GUI and connect to the new Cell Manager. Refer to the `omniusers` man page.

Installation Server Specifics

The migration of the Installation Server is not done as part of the Cell Manager migration. If Installation Server is installed on your old Cell Manager, it will not be migrated to the new Cell Manager and will stay the Installation Server for your cell.

If you want to use the new Cell Manager also as an Installation Server, install the Installation Server component on the new Cell Manager after the migration and import it in the cell. Refer to the online Help index keyword “Installation Server”.