

HP Configuration Management

OS Manager

for UNIX® operating systems

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Migration Guide

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1 CM OS Manager Upgrade Instructions

Use the following information to upgrade your HP Configuration Management OS Manager (CM OS Manager) environment from version 4.20 or 5.00 to version 5.10.

To migrate to version 5.10, you will:

- 1 Update the CM Portal.
- 2 See the *CM Configuration Server and Database Migration Guide* for instructions on updating the CM Configuration Server to version 5.10.
- 3 Update the CM Configuration Server methods.
- 4 Update the CM OS Manager.
- 5 Migrate published UNIX configuration files.
- 6 Test the new OS environment.

 All of the files you will need are located on the CM OS Manager 5.10 installation media. You must create the CM OS Manager installation media from the .iso image stored in the \OS_Manager folder on the Configuration Management 5.10 media.

Task 1 Update the CM Portal

Use the *HP Configuration Management Portal Migration Guide* to upgrade the CM Portal version 5.10. If you are migrating from version 4.20 then you will also need the installation media for version 5.00, a direct migration from 4.20 to 5.10 is not supported for the CM Portal.

 The Zone name used for the previous installation of the CM Portal must be used during the version 5.10 installation.

Task 2 Update the CM Configuration Server

Use the *CM Configuration Server and Database Migration Guide* for instructions on how to update the CM Configuration Server and CM-CS Database to version 5.10.

Task 3 Update the CM Configuration Server Methods

When running the CM Configuration Server 5.10 you must update the methods so that they will work with the CM OS Manager.

- 1 Copy all files from \Migration\configuration_server\bin
to
`SystemDrive:\Program Files\Hewlett-Packard\CM\ConfigurationServer\bin`
- 2 Copy all files from \Migration\configuration_server\modules
to
`SystemDrive:\Program Files\Hewlett-Packard\CM\ConfigurationServer\modules`

Task 4 Update the CM OS Manager Server

- 1 Stop the service.
- 2 Copy the following files from `\common_components`:
`expandSmbios.tkd`
`roms_udp.tkd`
`roms.tkd`
to
`opt/HP/CM/IntegrationServer/modules`
- 3 Copy the following files from `\common_components`:
`Nvdcrt.tkd`
`Httpd.tkd`
to
`opt/HP/CM/IntegrationServer`
- 4 Copy the following files from `\os_manager_server\<platform>\media`:
`nvdkit`
to
`opt/HP/CM/IntegrationServer`
- 5 Copy the following files from `\common_components\unix\`
`pkg_client.sh`
`preinstall.tcl`
`sched_ram_install.sh`
`setup_ram.sh`
to
`opt/HP/CM/IntegrationServer/pkg`

Steps 6 through 15 are required only for pre-5.00 CM OS Managers. If your existing CM OS Manager Server is version 5.00, skip to step 16.

- 6 Use a text editor to open `opt/IntegrationServer/etc/roms.cfg`.
- 7 Add the attributes `PORTAL_UID` and `PORTAL_PASS`.
- 8 The values for `PORTAL_UID` and `PORTAL_PASS` must be encrypted. To do this, open a command prompt and go to `opt/Novadigm/IntegrationServer` and type `nvdkit`.
- 9 Press **Enter**.
- 10 Type `% password encrypt yourPassword aes`
- 11 Copy the results into `roms.cfg` so that the value for `PORTAL_PASS` is an encrypted password. The line will look similar to the following:
`PORTAL_PASS {{AES256}3gM1spmbrGbqVXNPDx8tWg==}`
- 12 Type `% password encrypt yourPUIID aes`
- 13 Copy the results into `roms.cfg` so that the value for `PORTAL_UID` is encrypted. The line will look similar to the following:
`PORTAL_UID {{AES256}ACuqUOk5jOzI23B243dvgw==}`

14 Add the following to roms.cfg:

```
in "roms::init" section
    WIMSHARENAME    {}
    WIMSHAREPATH    {C:\WIMSHARE}
    WS_DEBUG        0
in "namespace eval roms" section, after 'set attrlist(BEHAVIOR) {}'
    variable romlist [list \
        currllds \
        currlmes \
        curros \
        discfs \
        discsbnt \
        disctime \
        evtsttk \
        jobid \
        nvdpolicy \
        osstate \
        rcshost \
        role \
        romscpuid \
        romsgateway \
        romsnettype \
        romsplatform \
        rslvlds \
        rslvdos \
        sbbprod \
        slctlds \
        slctdos \
        unmgdos \
    ]
```

15 The roms.cfg file should look similar to the following when you are finished.

```
roms::init {
    CLIENTPATH      {}
    DISPLAYNAME     compname
    MEDIAPATH       {}
    PORTAL_PASS     {{AES256}3gMlspnbrGbqVXNPDx8tWg==}
    PORTAL_UID      {{AES256}ACuqUOk5jOzI23B243dvgw==}
    RCS_ADDRESS     16.119.230.20:3464
    RIB_HOST        16.119.230.20
    RIB_PORT        3466
}
```

```

RIMHOST      {}
RMPHOST      {}
RPS_ADDRESS  16.119.230.20:3466
WIMSHARENAME {}
WIMSHAREPATH {C:\WIMSHARE}
WS_DEBUG     0
ZONE         cn=zone50,cn=radia
adminid      RAD_MAST
adminpwd     {}
rtrdelay     900
}

# DO NOT CHANGE ANYTHING BELOW, FOR INTERNAL USE ONLY

namespace eval roms {

# Each class known to ROMS has a list of attributes (default empty)
# which
# are NOT returned to the client (used in roms::WalkTree).

variable attrlist

set attrlist(ALL) {}
set attrlist(SMINFO) {}
set attrlist(ROMS) {}
set attrlist(DRIVEMAP) {}
set attrlist(PARTTION) {}
set attrlist(ZSERVICE) {}
set attrlist(PACKAGE) {}
set attrlist(FILE) {}
set attrlist(SYSPREP) {}
set attrlist(MACHINE) {}
set attrlist(BEHAVIOR) {}

variable romlist [list \
    currls \
    currlms \
    curros \
    discfs \
    discsbnt \
    disctime \

```

```

        evntstk \
        jobid \
        nvdpolicy \
        osstate \
        rcshost \
        role \
        romscpuid \
        romsgateway \
        romsnettype \
        romsplatform \
        rslvlds \
        rslvdos \
        sbbprod \
        slctlds \
        slctdos \
        unmgdos \
    ]
}
#
# END OF CONFIG
#

```

- 16 Run CM Agent Remote Installation Setup using CM 5.00 media. See a CM Agent guide for detailed instructions. Make sure to use “remote.cfg” when prompted for the configuration file for the remote install.
- 17 Run `pkg_client.sh` (from `/opt/HP/CM/IntegrationServer/pkg`) to create `radia.tar` and `radia_ssh.tar` (this will include new modules from the `pkg` directory and the CM agent 5.10).
- 18 Restart the service.
- 19 Install the latest UNIX Configuration File Publisher (this is required to publish data into the 5.10 CM CS Database). Refer to the *OS Manager Guide for UNIX* for detailed installation steps.

Task 5 Migrate Published UNIX Configuration Files

With the 5.10 release, the publishing model for configuration files was changed from an instance-based model to a file-based model. No interpretation is performed during the publishing and subsequent use in a deployment. This removes any prior restrictions on the configuration file content.

Previously published configuration files must be migrated to the 5.10 model by republishing them using the 5.10 UNIX Configuration File Publisher. This is a mandatory step for configurations that you want to use in the 5.10 environment.

A migration tool is installed with the new 5.10 publisher that can be used to generate a report which shows all configuration files published using a pre-5.10 model.

The migration tool accepts the following parameters:

-h	Help.
-n	No-execute mode. No report generated and no actions are taken by the migration tool.
-d	Debug mode.

To run the migration tool

- 1 Navigate to the directory where you installed the 5.10 UNIX Configuration File Publisher.
- 2 Run the migration tool by typing `./migrate`
- 3 Type **y** to proceed.
- 4 Provide your CM Configuration Server information.
A report is generated and stored in a new RCS-Reports sub-directory. (No report is generated if you ran the migration tool using `-n`).
- 5 View the report to see a list of current configuration files that can be re-published or removed.

If you are unsure of what configuration file was used to deploy a specific operating system, you can consult the copy that was used to install it in the client-specific directory located on the OS Manager server.

Platform	Directory
HP-UX ignite	<code>/var/opt/ignite/clients</code>
Solaris Jumpstart	<code>/var/opt/jumpstart/clients</code>
Redhat Kickstart	<code>/var/opt/kickstart</code>
SUSE AutoYaST	<code>/var/opt/autoyast/clients</code>
AIX NIM	<code>/var/opt/nim/clients</code>

The directories listed above contain client-specific directories (the name is the MAC address) for the machines that have been installed. These directories contain the generated configuration files. The values above are proposed defaults; these may differ in your organization.

A number of files exist within these directories depending on the platform and deployment type. The actual configuration file that was used to install a given client is listed below.

Platform	Configuration File
HP-UX Ignite	<code>config</code>
Solaris Jumpstart	<code>profile / sysidecfg</code>
Redhat Kickstart	<code>ks.cfg</code>

SUSE AutoYaST	ay.xml
AIX NIM	n/a



Important: do not use these files directly for re-publishing. Rather, they should be used as guidance so you may re-create a new copy of a configuration file to publish. The reason for this is that during pre-5.10 deployment, these files were re-constructed and modified from their original format. They contain HP-specific additions, and should therefore never be re-used as-is for new publishing sessions.

When re-publishing configuration files, follow the steps in the *CM OS Manager Guide for UNIX*.



To avoid re-installing clients you **must** re-use the exact same service instance name when re-publishing the configuration. Please be aware that this means the instance name of the service in the CM-CS Database. The friendly name can be different but the service instance name must be identical.

Task 6 Testing Considerations

To ensure that your OS management process is working properly. HP recommends testing your new OS management infrastructure in a test environment before implementing these changes into your production environment.