HP OpenView Radia 4.1

HP OpenView Radia Management Portal Using Radia

Upgrade Procedures Guide

Software Version: 2.1

Windows Operating System

Software Version: 1.3.4

UNIX Operating Systems: HP-UX and Solaris

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To find more information about access levels, go to:

http://www.hp.com/managementsoftware/access_level

To register for an HP Passport ID, go to:

http://www.managementsoftware.hp.com/passport-registration.html

Preface

About this Guide

Who this Guide is for

This book is for Radia system administrators who want to upgrade the Radia Management Portal for Windows or UNIX.

You should be familiar with Radia products, such as the Radia Database, Radia Configuration Server, Radia System Explorer, and the Radia Management Portal.

What this Guide is about

The purpose of this guide is to help you upgrade your Radia Management Portal for Windows. This guide should be used by systems administrators who want to:

- Upgrade their Radia Management Portal for Windows from version 2.0 to version 2.1
- Upgrade their Radia Management Portal for Windows from version 1.3 to version 2.0.
- Upgrade their Radia Management Portal for UNIX from version 1.3.x to version 1.3.4.

Conventions

You should be aware of the following conventions used in this book.

Table P.1 ~ Styles

Element	Style	Example
References	*Italic*	See the *Publishing Applications and Content* chapter in this book.
Dialog boxes and windows	**Bold**	The **Radia System Explorer Security Information** dialog box opens.
Code	`Andale Mono`	`radia_am.exe`
Selections	**Bold**	Open the **\Admin** directory on the installation CD-ROM.

Table P.2 ~ Usage

Element	Style	Example
Drives (system, mapped, CD)	Italicized placeholder	*SystemDrive*:\Program Files\Novadigm might refer to C:\Program Files\Novadigm on your computer. *CDDrive*:\client\radia_am.exe might refer to D:\client\radia_am.exe on your computer.
Files (in the Radia Database)	All uppercase	PRIMARY
Domains (in the Radia Database)	All uppercase	PRIMARY.SOFTWARE May also be referred to as the SOFTWARE domain in the PRIMARY file.
Classes (in the Radia Database)	All uppercase	PRIMARY.SOFTWARE.ZSERVICE May also be referred to as the ZSERVICE class in the SOFTWARE domain in the PRIMARY file.

Table P.4 ~ Radia Proxy Server Terminology

Term	Definition / Context
base installation directory	The location where your Radia Management Portal is installed. By default, the Radia Management Portal is installed into the following directory: • On a Windows machine, it is: ***<SystemDrive>*:\Novadigm\IntegrationServer** • On a UNIX machine, it is: /**opt/Novadigm/IntegrationServer**

Contents

1

Upgrading the Radia Management Portal

The purpose of this guide is to help you upgrade your Radia Management Portal for Windows. This guide should be used by systems administrators who want to:

- Upgrade their Radia Management Portal for Windows from version 2.0 to version 2.1. Steps begin on page 11.
- Upgrade their Radia Management Portal for Windows from version 1.3 to version 2.0. Steps begin on page 17.
- Upgrade their Radia Management Portal for UNIX from version 1.3.x to 1.3.4. Steps begin on page 25.

Windows Users: Upgrading Radia Management Portal from 2.0 to 2.1

Use these procedures to upgrade existing RMP Zones at version 2.0 to version 2.1.

The following procedures discuss how to apply the updates to:

- The initial Master Portal Zone. This includes steps on how to add a Chassis container to an existing RMP Zone.
- The set of tasks available to the Portal.
- The Subordinate Zones in your enterprise.
- The Radia Management Agents in your Zones.
- An LDAP Directory Service for Use with Policy Tasks.

Caution

There is a known issue when upgrading an RMP if the rmp.cfg file contains curly brackets. See below for details on the workaround.

To prepare for the Service Pack Update

1. Create a backup of each RMP Zone prior to running the service pack update. To backup the Zone directories, navigate to the **Zone** container and run the **Backup Directory** task from the Directory Management task group.
2. Important! Make a backup of your **rmp.cfg** file, located in the **\etc** directory, prior to running the setup program to update your environment.

RMP.CFG Installation Issue and Workaround

If your rmp.cfg file contains *embedded curly brackets*, the entries may be jumbled and corrupted by the installer. For example, the following line in the rmp.cfg file contains embedded curly brackets:

NETSCAN_INCLUDE { domain {DEMO} }

and will likely result in a corrupt rmp.cfg file following the install.

The workaround is to restore your backup rmp.cfg file after the install and then start the RMP service.

3. If your rmp.cfg file contains embedded curly brackets, there is a known problem and you will need to restore the rmp.cfg file from the backup copy after the install program completes.
4. For example, if your rmp.cfg file contains:
5. If your RMP file contains code for temporary workarounds, we recommend commenting out this code prior to running the update procedures. For example, if you added a SET command below the rmp.cfg initialization parameters for the LDAP_AUTH, such as:

   set ::rmp::cfg(LDAP_AUTH) 1

   please comment out this workaround prior to running the RMP update.

To run the setup program for the Master Portal Zone

1. To update the Master Zone of the Management Portal, navigate to the \extended_infrastructure\management_portal\win32 folder of the Radia 4.1 Infrastructure CD location and run the **setup.exe** program.
2. The majority of the prompts to update the RMP are the same as those used to install the RMP. For details, refer to the installation procedures in the *Installation and Configuration Guide for the HP-OpenView Management Portal Using Radia for Windows (Management Portal Guide for Windows, v2.1).*
3. After you accept the end-user license agreement, the setup program detects an existing Radia Management Portal Zone and prompts you to select the components to update, as shown in Figure 1.

4. Select both components to update your RMP Zone as well as the media used to install additional RMP Zones in your enterprise, and click Next.

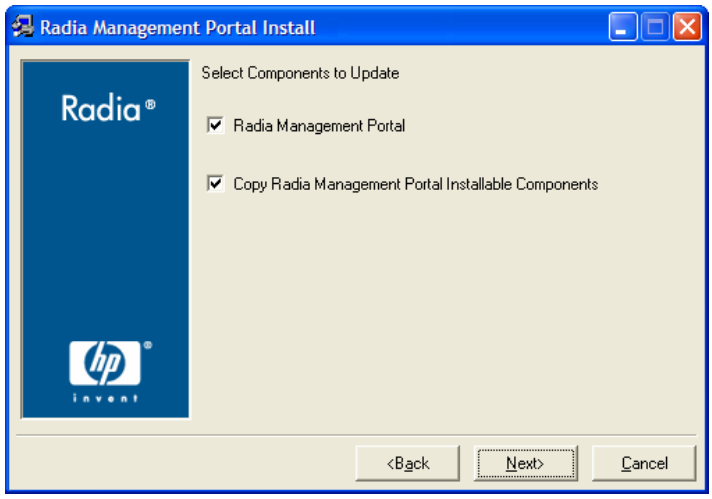

Figure 1 ~ Selecting Components to Update after running SETUP.EXE.

5. After the RMP is updated the setup program also prompts you to install remotely installable components and publications.
   - Respond **Yes** when prompted to install each of the following: **Remotely Installable Infrastructure Components, Remotely Installable Client Components** and the **Radia Publications**. This version includes updates to each of them.

Normally, after running setup.exe the Radia Management Portal opens and the Login panel is displayed. The next step is to accept the task changes delivered with this version by running **Update Portal Tasks** from the Directory Management task group. See the following procedures for details.

If the Radia Management Portal does not start automatically after the installation program completes, you need to restore the backup copy of your rmp.cfg file to the /etc folder due to a known installation problem.

To restore a backup rmp.cfg file

1. The rmp.cfg file is located in the /etc folder of where the Radia Management Portal is installed. If the contents of this file are corrupted by the install, restore the backup copy of your rmp.cfg file after setup.exe completes.
2. Start the Management Portal service, [httpd]. For details, refer to the *Management Portal Guide for Windows*.

To update the tasks available to the Radia Management Portal

1. Login as **Admin** (default password is secret).
2. Navigate to the **Zone** container, the **Configuration** container, and then the **Tasks** container.
3. From the Directory Management task group click **Update Portal Tasks**.
4. Review the task changes and select those tasks that you wish to update.

> **Caution**
>
> HP recommends that you do **not** update a task that has been intentionally customized, such as a Notify task. Doing so will overwrite any customizations. The unaccepted task changes remain available for update at a later time.

5. Click **Commit**. See the *Management Portal Guide for Windows* for more information on running Update Portal Tasks.

To apply the Service Pack to Subordinate RMP Zones

Use the Update RMP task available on the Management Portal Operations task group to update the Subordinate RMP Zones to version 2.1. The procedure is given below.

Prerequisite: Commit the new tasks delivered with the Service Pack using the previous procedure *To update the tasks available to the Radia Management Portal*.

1. From the Master Portal, navigate to the **Zone Access Points** container.
2. Select a Subordinate Zone object and click **Update RMP** from the **Operations** task group.
3. Repeat the Update RMP task for each subordinate zone in your enterprise.
4. To also update the tasks available to the subordinate zones, use the **Open Subordinate Zone** task to access a Zone remotely, and run **Update Portal Tasks** from the Tasks container. The Tasks container is accessed from the Zone container, then the Configuration container.

To update the Radia Management Agents (RMAs) being managed by a Zone

This version also updates the RMA with new features and capabilities, as well as a substantially smaller footprint. RMAs are installed on all devices being managed by a Portal Zone. To update the RMAs on all devices in your Zones, you can use the **Install RMA** task in the Operations task group to re-install them directly from the portal. You need to run the task from the Portal Zone that is managing the devices.

Note

Use the **Install RMA** task to update the RMA on the machine hosting the RMP Zone, itself; this is not done automatically.

Alternatively, you can deploy the new RMA for RMP 2.1 from a packaged Radia Service or command line. For detailed information, see the Technote *RMP 2.x: Deploying a Radia Management Agent from a Command or Radia Package.*

To update an LDAP Directory Service for Policy Tasks

The Policy tasks are only available to an LDAP Directory Service whose **Used for Policy** property is set to **true.** The default value is **false**, which disables the Policy task groups for that Directory Service.

Use the following steps to modify a Directory Service object's Use for Policy value.

1. Display the properties for the Directory Service LDAP object. (Navigate to the object in the Zone, Configuration, Directory Services container.)
2. Select **Modify** from the Model Administration task group.

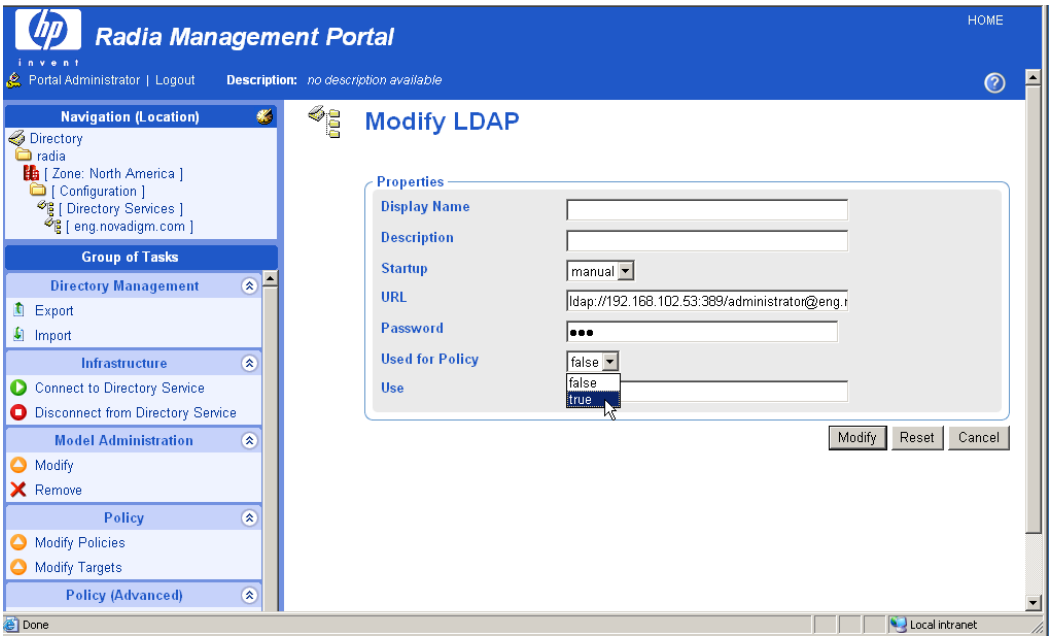

Figure 2 ~ Set "Used for Policy" to true on the Modify LDAP properties page to enable Policy Tasks.

3. On the Modify Properties page, go to the **Used for Policy** drop-down selection box and choose **true**.
4. Click **Modify** to save the changes.

Adding the Chassis Container

The Chassis container is new to this release. It supports the modeling and configuration of the blade servers, blade enclosures and racks containing enclosures in your Zone. For details, refer to the Management Portal Guide for Windows.

Use these procedures to import the Chassis container into an existing RMP Zone directory. Begin this procedure with RMP 2.1 installed and the service started.

To add the Chassis container to an existing RMP Directory

1. Create a text file with the following contents and name it chassis-ds.ldif.

```
dn: cn=zone/chassis, cn=rmp, cn=config, cn=<ENTER ZONE NAME HERE>, cn=radia
cn: zone/chassis
objectclass: top
objectclass: container
objectclass: ds
objectclass: ds-mk
displayname: Mount Point: Chassis
startup: auto
template: <ENTER ROOT RMP DIR HERE>/modules/rmp.tkd/etc/chassis.ldif
iscriticalsystemobject: true
```

2. Copy the chassis-ds.ldif file to the etc/export directory on your RMP installation.
3. Modify etc/export/chassis-ds.ldif and substitute <ENTER ZONE NAME HERE> with your zone name. Also substitute <ENTER ROOT RMP DIR HERE> with the install path of your RMP using forward slashes (/).

   Example: If your RMP root directory is C:\Novadigm\IntegrationServer, enter it in the line for the template as:

   ```
   template: C:/Novadigm/IntegrationServer/modules/rmp.tkd/etc/chassis.ldif
   ```

4. Use the RMP Import task to import chassis-ds.ldif. Wait at least 30 seconds for the RMP to commit the change.
5. Restart your RIS service that RMP is running under and the “Chassis” container should now appear under the zone.

Windows Users: Upgrading Radia Management Portal from 1.3 to 2.1

Use these procedures to upgrade an existing RMP 1.3 to RMP 2.1. The upgraded RMP 2.1 can be placed on the same machine, or on a different machine.

Summary of Procedures

Upgrading from Radia Management Portal 1.3 to 2.1 is a side-by-side migration, not an in-place upgrade. This is because version 2.1 adopts an LDAP directory structure that is quite different from the directory used in RMP 1.x releases.

To upgrade from 1.3 to 2.1, you must install RMP 2.1 to a new location (either on the same or on a different machine), and then use the provided migration script to prepare export files of the data from your RMP 1.3 directory. You then use RMP 2.1 to import the data. The final step is to upgrade the version of the Management Agents on all of the imported devices by re-installing the Management Agent from the RMP 2.1 portal.

The provided migration script will assist you in transferring the following entries:

- Computers and their Group hierarchy
- Operators and Administrators
- Delegated Administrators (entitlements)

To make your upgrade to version 2.1 as smooth as possible, please review each of the topics in this guide before beginning. The topics include:

- Exporting Data from RMP 1.3 on page 17.
- Installing RMP 2.1 to a New Location on page 18.
- Exporting Data from RMP 1.3 on page 20.
- Importing Data into RMP 2.1 on page 24.
- Performing Post-Import Tasks on page 25.

Preparing for the Upgrade

To prepare for the upgrade

1. Review your current and scheduled jobs. Note any jobs that you want to recreate on the new Radia Management Portal 2.1.
2. Stop the existing Radia Management Portal 1.3 service.

- If your Radia Management Portal is running as a Windows Service, stop the Radia Integration Server [httpd] service from the Windows Service control window.
- If your Radia Management Portal is not running as a Windows service, stop the service by typing the following command in a DOS window from the directory where the Radia Management Portal is installed:

```
nvdkit httpd.tkd stop
```

3. Backup the entire Radia Management Portal directory to a new location. Normally, the Radia Management Portal is installed to:

   <*SystemDrive*>:\Novadigm\IntegrationServer

> **Note**
>
> The backup copy of the **rmp.mk** file will be used in the task: *Exporting Data from RMP 1.3* on page 20.

4. Remove the existing Radia Management Portal service. To do this, open a DOS window and change to the directory where the Radia Management Portal was installed. Issue the following command:

   ```
   nvdkit httpd.tkd remove
   ```

5. After creating a backup and then removing the service, you can install the new Radia Management Portal 2.1. Using the procedures in the following task.

Installing RMP 2.1 to a New Location

Use these steps to install version 2.1 of the Radia Management Portal. Specify an install directory for RMP 2.1 that is separate from your existing RMP 1.3 install directory.

> **Note**
>
> The RMP 2.1 install prompts you for a Zone name. Typically, the initial RMP Zone is given the name of your enterprise (Zone names can include spaces, but not periods or special characters).
>
> To create additional Zones in your enterprise, install them remotely from initial RMP 2.1 Portal using the **Install RMP** task in the **Operations** task group.

To install Radia Management Portal 2.1

1. Run the Radia Management Portal installation program, **setup.exe**. This is located on the Radia Infrastructure install media at the following location:

   extended_infrastructure\management_portal\win32

2. When prompted for the **Radia Management Portal** installation folder, make sure to select a directory that is separate from the existing RMP 1.3 install directory.

   See *Chapter 2: Installing the Radia Management Portal* in the *Radia Management Portal Guide for Windows, Version 2.1* for detailed installation instructions.

   After installing the Radia Management Portal 2.1, the service for it starts automatically, and the login page for Radia Management Portal 2.1 opens.

3. Login using **Admin** with a password of **secret**.

   After the initial install, the Radia Management Portal includes the following Zone objects for devices, Groups, users, and entitlements:

   - **Device** container: the RMP-host computer
   - **Group** container: the **Default** group, with a single member—the RMP-host computer
   - **Administrators and Operators** container: a set of default users
   - **Configuration, Delegated Administrators** container:

   a set of default entitlements

4. Before proceeding with the export and import tasks, you should know how to:

   - Use the Radia Management Portal 2.1 interface
   - Navigate the Zone containers
   - Perform basic tasks related to devices and device groups
   - Perform import tasks

   Refer to *Chapter 3: Using the Radia Management Portal* in the *Installation and Configuration Guide for the HP-OpenView Management Portal Using Radia for Windows (Management Portal Guide for Windows)* for instructions.

Exporting Data from RMP 1.3

This task explains how to run the provided **migrate.tcl** script against the backup copy of your existing RMP 1.3 directory (the **rmp.mk** file). The script produces RMP 2.1-compatible export files of those computers (and computer groups), users, and user entitlements from your RMP 1.3 directory that you want to import into the RMP 2.1 Zone.

The end-result of running the migrate script is one or more of the following files:

- computers.ldif – Contains objects for Devices and Groups. The export process retains the Group hierarchy and membership of your existing RMP 1.3 directory.
- adminsoperators.ldif – Contains objects for Administrators and Operators.
- entitlements.ldif—Contains objects for Delegated Administrators (entitlement).

The migrate export script includes optional parameters you can use to limit which computer devices will be exported into an RMP 2.1 zone. Alternatively, you can limit which objects are exported into an RMP Zone by deleting the objects from the resulting export file, or by selecting only a portion of the objects during the Import task.

To perform the export

1. Select a local working directory in which to run the migration script.
2. Copy the following files to the working directory:

Table 1 ~ Files Needed to Run RMP migrate.tcl Script

File	Copy from
migrate.tcl	The **\migrate** folder of the Radia Management Portal 2.1 install media
rmp.mk	The **\etc** folder of your RMP 1.3 **Backup** environment
license.nvd nvdkit.exe rmp.tkd	The **\modules** folder of your RMP 1.3 directory

3. Open a DOS window and go to the working directory where you placed the necessary files (from Step 2).
4. Run the provided **migrate**.**tcl** export script against the RMP 1.3 **rmp.mk** file from your backup environment using the following commands.

   To export administrators and operators, type:

   ```
   nvdkit migrate.tcl -action export_administrators_operators
   ```

   To export delegated administrators (policy entitlements), type:

   ```
   nvdkit migrate.tcl -action export_entitlements
   ```

To export computers and groups, type:

```
nvdkit migrate.tcl -action export_computers
```

Note: See *Using Optional Parameters when Exporting Computers* on page **Error! Bookmark not defined.** for information on the optional parameters that can be used with this command.

5. The migrate script ends with a summary of the number of the number of objects exported, as shown in Figure 3.

```
200040723 15:2817 Info:

200040723 15:2817 Info: Exported 1574 computers.

200040723 15:2817 Info: Exported 9 computer groups.

200040723 15:2817 Info: Export completed.
```

Figure 3 ~ Sample lines displayed at completion of migration script.

A trace of the migration is saved to the **migrate.log**.

6. Optionally, review the entries in the *.ldif files created by the migration script. The output files names are:

computers.ldif

adminsoperators.ldif

entitlements.ldif

If desired, you can edit the *.ldif files to remove objects you don't want available for import. You can also rename the files, as long as you keep the *.ldif extension.

Note: The I**mport** task also allows you to select which of the available objects are to be imported from a given export file.

7. If necessary, repeat the export process for computers with additional parameters to further limit the objects you want to import into an RMP 2.1 zone.

Using Optional Parameters to Export Computers

The migrate export script includes optional parameters you can use to limit which computer devices will be exported into an RMP 2.1 zone. This topic explains their use.

The default command to export computers is given below:

Syntax nvdkit `migrate.tcl -action export_computers`

Description This command creates a **computers.ldif** export file of all computers ang groups located in the **Novadigm-managed Infrastructure** (cn=novadigm,cn=world) container of the RMP 1.3 directory, including all lower levels.

Figure 1 ~ Exporting computers, by default, includes all computers and groups within Novadigm-managed infrastructure.

The export retains the hierarchy and group memberships of the exported computers. By default, the Zone assignements for th exported objects is set to the variable <<zone>>, which is later resolved to the name of the RMP Zone used to run the Import task.

Specifying Optional Parameters

Specify optional parameters with the command to export computers to change the starting authority within the RMP 1.3 directory from which to begin the export, or to limit how many levels to include in the export.

Syntax nvdkit `migrate.tcl -action export_computers <-basedn> <-scope>`

Description Exports all computers found within the branch (authority) of the RMP 1.3 directory as specified by the –basedn parameter. If –scope is also specified, it may further limit the export to a specific number of levels below the starting point.

Parameter	Explanation
-basedn	Specifies the Distinguished Name (DN) of the starting point in the RMP directory for the export of computers. Unless –scope is also used, the export includes computers and groups in all lower levels of the specified branch, as well. The default is: –basedn cn=novadigm,cn=world Specify **–basedn *dn*** to export computers from the named DN. Allows you to limit the export to a subset of computers in the Novadigm-managed infrastructure container, or to export computers located in the Microsoft Windows Network container of the Portal directory. **Note:** The DN for an RMP object is displayed in the Portal Workspace when you hover the mouse over the object.
-scope	Specifies the number of RMP directory levels below the -basedn to include in the export. The default is **–scope sub**, which includes all levels below the –basedn. **Note:** The following alternate values are available, but rarely needed. Specify **–scope one** to limit the export to computers located one level below the -basedn. Rarely used. Specify **–scope base** to export only the –basedn object. Rarely used.

Examples

1. The following command:

```
nvdkit migrate.tcl –action export_computers     ↲
 -basedn cn=managed-groups,cn=novadigm,cn=world
```

limits the export to the computers and groups found in the Radia Managed Groups container, including all lower levels.

2. The following command:

```
nvdkit migrate.tcl –action export_computers     ↲
 -basedn cn=my_group,managed-groups,cn=novadigm,cn=world –scope one
```

limits the export to the user created group named MyGroup and computers in that group (computers one level below the starting authority). MyGroup exists within the Radia Managed Groups container.

Importing Data into RMP 2.1

This task reviews how to import the *.ldif files created from the migration script into the new RMP 2.1 Zone.

Prerequisites

- Export files (*.ldif) created from the migrate.tcl script. By default, these files are named:

  computers.ldif

  adminsoperators.ldif

  entitlements.ldif
- Familiarity with the use of the RMP 2.1 Portal.
- Knowledge of how to perform the **Import** task in Radia Management Portal 2.1. See *Chapter 4: Administrative Functions* in the *Management Portal Guide for Windows* for more information.

To import data into RMP 2.1

1. Copy the *.ldif files created by the migrate.tcl script in the previous task to the following RMP 2.1 directory location:

   <RMP 2.1 install dir>**\etc\export**

   This is the required location for placing any *.ldif files that are to be imported into the Radia Management Portal using the Import task.
2. Login to the Radia Management Portal 2.1 as **Admin**.
3. From the Directory Management task group, click the **Import** task.
4. Select one of the export files, such as computers.ldif, and complete the dialogs to import all or a subset of the objects to this RMP Zone.

   Use the **Import Task – Select Roots** dialog to remove any objects from the export file that are not to be imported into this RMP Zone. To do this, remove the check mark from the object's listing before clicking **Next.**

   The final page of the Import task, the **Submit Import—Import select** dialog box, displays the differences between the LDIF file objects that you are importing and the Portal directory objects.

Import Notes

1. When importing a computers.ldif file, group objects are listed below the computer objects.
2. .When importing objects from RMP 1.3, the properties from RMP 1.3 take priority over any existing entry in RMP 2.x for the same object. For example, any user-entered values from RMP 1.3, such as Description and Display Name, take priority over the same properties for an existing object in RMP 2..x

5. Repeat the Import task for each *.ldif file you created using the migration script.

To evaluate and modify the Results in RMP 2.1

Use the Portal to evaluate and modify the import results. Navigate through the Zone Groups container to evaluate the hierarchy and memberships. Adjust the hierarchy and membership using the tasks available in the Portal's **Model Administration** task group. See the topics related to working with Groups and Devices in *Chapter 4:* of the *Management Portal Guide for Windows*.

Performing Post-Import Tasks

After importing the computers from your RMP 1.3 directory into the RMP 2.1 Portal, perform the following tasks:

1. Install the Management Agent (for RMP 2.1) to all imported devices. Use the **Install Management Agent** task in the Operations task group. See *Chapter 5: Operations Functions* in the *Management Portal Guide for Windows* for details.
2. Use the list of jobs you noted in the task *Preparing for the Upgrade* to recreate scheduled jobs.

UNIX Users: Upgrading Radia Management Portal from 1.3.x to 1.3.4

If you are running Radia Management Portal 1.3.x , follow these topics to make your upgrade to version 1.3.4 as smooth as possible.

- Applying the RMP 1.3.4 upgrade modules
- Updating Novadigm tasks

Applying the RMP 1.3.4 Upgrade

To upgrade from the Radia Management Portal version 1.3.x to version 1.3.4

Note

See the *Installation and Configuration Guide for the HP-OpenView Management Portal for UNIX (Management Portal Guide for UNIX)* for more information on how to perform any of the Management Portal tasks.

You can perform a local upgrade of an existing Management Portal Server using the install media located on the Radia Infrastructure CD.

1. Prior to upgrading, create a backup of the Management Portal Server directory. Refer to the *Management Portal Guide for UNIX* if you need instructions on stopping the existing Radia Integration Server [httpd] service.
3. Run the Management Portal installation program from the computer where the existing Management Portal Server is installed. The install program is located on the following folders on the Radia Infrastructure CD:

   \extended_infrastructure\management_portal\hpux

   \extended_infrastructure\management_portal\solaris

   For details on running the install program, see the *Installation* chapter of the *Management Portal Guide for UNIX*.

   The upgrade will apply the new components to the existing Management Portal, but keep the current parameters specified in the configuration file, rms.cfg.
4. Following installation, restart the Management Portal service [httpd] and then run Update Novadigm Tasks. These steps are detailed below.

To start the Management Portal service for UNIX

1. Change your current directory to the directory where you installed the Radia Management Portal (**/opt/Novadigm/IntegrationServer/** by default).
2. Type:

   ./nvdkit httpd.tkd
3. Press Enter.
4. The Management Portal is started on your computer.

Updating Novadigm Tasks

To update Novadigm tasks

1. Log on to the Radia Management Portal.
2. Use the **Authority** navigation aid to select **Directory**.
3. In the **Directory Management** task group, click **Update Novadigm Tasks** to update your directory with task changes delivered with this release (additions, deletes, and modifications).

   The **Update Tasks – Select** window opens.
4. To accept all tasks delivered with this upgrade, click **Select All** in the **Differences** area.

   The tasks that you selected are added to the appropriate Add, Delete, or Modify area of the window.
5. Click **Commit** to update the Radia Management Portal with the new tasks.