Client Upgrade Procedures Guide for HP OpenView Using Radia

for the Windows operating system

Software Version: 4.0.1

Client Upgrade Procedures Guide

June 2005



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Please visit the HP OpenView web site at:

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

This web site provides contact information and details about the products, services, and support that HP OpenView offers.

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http://support.openview.hp.com/

HP OpenView online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valuable support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track progress on support cases
- Manage a support contract
- Look up HP support contacts
- Review information about available services
- Enter discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and log in. Many also require a support contract.

To find more information about access levels, go to:

http://support.openview.hp.com/access_level.jsp

To register for an HP Passport ID, go to:

https://passport2.hp.com/hpp/newuser.do



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1 Preparing Your Radia 2.xClients for Upgrade

Use these procedures in this chapter to prepare your Radia 2.x client machines for upgrade to Radia 4.0.1.

Microsoft requires their operating systems be upgraded with later versions of the operating system extensions that are currently available from Microsoft such as .NET, WMI, and Windows Installer. HP is offering an optional Radia service — the Radia Microsoft Windows Platform Prerequisites (RADIA4PR) to current Radia Administrators—that will allow you to distribute .NET, WMI, or Windows Installer to your users before you upgrade your Radia environment.

This early distribution option offers the following advantages:

- You can use Radia to deliver and install Microsoft's operating system (OS) extensions.
- You can separate the deployment of Microsoft's OS extensions from the overhead and timing considerations for rolling out the Radia 4.0.1 Client.
- You can separate the reboot that is necessary after installing Microsoft's OS extensions from the Radia 4.0.1 client installation.

It is not required that you follow the procedures in this chapter if you are installing the Radia 4.0.1 client using installation media. If you choose to skip this chapter and go directly to Chapter 2, *Upgrading Your Radia Clients*, the Radia Client installation will check for Microsoft's operating system extensions and will upgrade or install the necessary extensions. You can also download the extensions from Microsoft's Web site and distribute them to your client machines on your own. If you are upgrading existing Radia 2.x clients in a production environment, deploying this prerequisite service prior to deploying the client upgrade service is highly recommended.



If you have Windows 9.x machines in your environment, there is a Microsoft bug that prevents the upgrade from resuming its installation after the machine is rebooted when Windows Installer is installed. The best way to ensure that your Radia upgrade proceeds smoothly is to use this Radia service— Radia 4.0 Microsoft Windows Platform Prerequisites (RADIA4PR).

Before you Begin

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You will need the following materials and information, which can be found on the HP OpenView Radia v4 Applications CD.

• Determine the length of your ZCREATE field in the ZSERVICE Class. If your ZCREATE field is set to less than 70 characters, upgrade the Radia Configuration Server first before upgrading any clients (the Radia Client upgrade requires the ZCREATE field to be a minimum of 70 characters).

The following files are located in the \migrate folder.

- R3201091.zip
 - Contains the updated Radpinit.exe module.
- **Radia4pr.zip** Contains the Radia Microsoft Windows Platform Prerequisites (RADIA4PR) service in the form of a Radia Service Export Deck.
- Radia4htm.zip

Contains the Radia4.htm Web page.

• PRDMAINT.zip

Contains the PRDMAINT.xpc and PRDMAINT.xpi Radia 4.0 client selfmaintenance export decks for customers who chose not to upgrade the Radia Database first.

What this chapter is about

This guide will take you through the necessary procedures to:

• Import the Radia Microsoft Windows Platform Prerequisites (RADIA4PR) service into your Radia Database.

- Configure the RADIA4PR service with the OS extensions that you need to distribute based on your environment.
- Update the Radia HTM page.

Important Prerequisites

Before upgrading 2.07/2.08/2.1 Clients

To ensure continued support of Radia 2.07, 2.08, and 2.1 clients by the Radia Configuration Server, use the client self-maintenance process to apply fix **R3201091** which contains the file, radpinit.exe, dated 05/16/01.



If your existing **radpinit.exe** is more recent than the fix date mentioned above, you do not need to apply the fix.

Applying this fix ensures that your Radia Configuration Server will support use of Radia 2.07, 2.08, 2.1, as well as 3.x clients.

For more information about client self-maintenance, see the *Radia Application Manager Guide* or the *Radia Software Manager Guide*.

Upgrading Internet Explorer

The current Microsoft OS extensions for WMI and .NET require Microsoft Internet Explorer 5.01 or higher. See the Application Publishing Technote "Microsoft Internet Explorer 5.5" on HP's Technical support Web site (for information about how to use Radia to distribute Internet Explorer to your client machines. Although this document was written for IE 5.5 SP1, you can use the same steps to distribute IE 5.01.

If you decide to upgrade to **Internet Explorer 5.5 SP2 or higher** and you are using the Radia Software Manager Client 2.x, the client *must* contain the Active X Control before you upgrade your browser. See the document kb01146 "MAINTENANCE: Radia Software Manager – ActiveX Control" on HP's Technical Support site for information about how to update use the client self-maintenance process to update your clients.



Importing the RADIA4PR Service to the Radia Database

The following is required only for version 2.x Radia Clients.

The Radia service, Radia Microsoft Windows Platform Prerequisites (RADIA4PR), contains four packages— the Radia 4.0 Install Rex package and three of Microsoft's OS extensions.

• Radia 4.0 Install Rex

This package contains the file MsOsExt.REX, which performs the installation of the Radia packages used to distribute Microsoft's OS extensions.

• Radia 4.0 MSI

This package contains Windows Installer (version 2.00.2600.0). Size: $1.62mb(9x)\,/\,1.73mb(NT)$

Like all Windows Installer applications, the Radia Client requires that Microsoft Windows Installer is resident on the client machine.

Please note the following links for Microsoft System Requirements:

NT/2000:

http://www.microsoft.com/downloads/release.asp?releaseid=32832&NewList=1

95/98: http://www.microsoft.com/downloads/release.asp?ReleaseID=32831

• Radia 4.0 WMI

This package contains Windows Management Instrumentation (version 1.50.1085.0005). Size: 6.39mb

In support of the Radia Inventory Manager, Windows Management Instrumentation (also known as WMI) is required.

If you do not use the Radia Inventory Manager, it is not necessary to deploy this operating system extension to your client machines.

• Radia 4.0 .NET

This package contains Windows .NET Framework (version 1.1.4322). Size: 17.2mb

The functionality of the new Radia Software Manager user interface relies upon the .NET Common Language Runtime.

If you are not a Radia Software Manager user, it is not necessary to deploy this operating system extension to your clients.



To import the RADIA4PR service into the Radia Database

- Open Radia4pr.zip and extract the contents to the bin directory of your Radia Configuration Server (for example C:\Novadigm\ConfigurationServer\bin).
- 2 Use your standard procedure for importing a service into your Radia Database.
- 3 Go to **PRIMARY.SOFTWARE.ZSERVICE** to see the **Radia Microsoft Windows Platform Prerequisites (RADIA4PR)** service in your Database.

The following figure shows the service and has been expanded so you can see the packages that are connected to it.

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Application (ZSERVICE)	30 ZSTOP002	Expression Resolution Method - 002			
BASE_INSTANCE_	30 ZSTOP999	Stop Unless Radia Connect			
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🔤 Drag & View	ZSVCTTYP	Application Target Type [A/S]			
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🖆 Remote Control	ZDELETE	Service Delete Method			
	BUPDATE	Service Pre-Update Method			
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Configuring the RADIA4PR Service

Once you have imported the RADIA4PR service into your Radia Database, you must:

- Configure the service to include Microsoft's OS extension packages based on your client needs. After you connect the service to the appropriate clients, these packages will be delivered by default. If you do not want to distribute any of the OS extensions, manually remove the connection. See *Determining Client Needs* on page 14 and *Customizing the Packages Connected to the RADIA4PR Service* on page 16 for more information.
- Specify whether you want the service to check whether the version of Internet Explorer is lower than 5.01 on the client machines during installation of Microsoft's OS extensions. See *Checking the Version of Internet Explorer* on page 18 for more information.
- Distribute the RADIA4PR service to your target audience. See the *Radia Application Manager Guide* or the *Radia Software Manager Guide* for more information.

Determining Client Needs

Use the following tables to help you determine your client needs based on the current Microsoft requirements.

	95	98	NT	2000	ХР
Microsoft Windows Installer (MSI)	2.00.2600.0	200.2600.0	2.00.2600.0	2.00.2600.0	2.00.2600.0
Windows Management Instrumentation (WMI)	Not needed for RAM	Not needed for RAM	Not needed for RAM	Pre-installed	Pre-installed
Microsoft .NET Framework (.NET)	Not needed for RAM	Not needed for RAM	Not needed for RAM	Not needed for RAM	Not needed for RAM
Microsoft Internet Explorer (IE)	4.01 SP2 5.01 Recommended	5.01	4.01 SP2 5.01 Recommended	5.01 SP1	6.0

Table 1: Radia Application Manager Client

	95*	98	NT	2000	ХР
Microsoft Windows Installer (MSI)	NA	2.00.2600.0	2.00.2600.0	2.00.2600.0	2.00.2600.0
Windows Management Instrumentation (WMI)	NA	Not needed for RSM	Not needed for RSM	Pre-installed	Pre-installed
Microsoft .NET Framework (.NET)	NA	1.0.3705	1.0.3705	1.0.3705	1.0.3705
Microsoft Internet Explorer (IE)	NA	5.01	5.01	5.01	6.0

Table 2: Radia Software Manager Client

* This does not apply to computers running Windows 95 because the Radia Software Manager 3.x client is not available for computers running Windows 95, as it requires Microsoft's .NET runtime.



Windows Server 2003 is not reflected in these tables since it was not supported in Radia version 2.x. Most requirements for Windows XP will apply for Windows Server 2003.

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Table 3: Radia Inventory Manager Client

	95	98	NT	2000	ХР
Microsoft Windows Installer	2.00.2600.0	2.00.2600.0	2.00.2600.0	2.00.2600.0	Pre-installed
Windows Management Instrumentation	1.50.1085.0005	1.50.1085.0005	1.50.1085.0005	Pre-installed	Pre-installed
Microsoft .NET Framework	NA	Not Needed for RIM	Not needed for RIM	Not needed for RIM	Not needed for RIM
Microsoft Internet Explorer	5.01	5.01	5.01	5.01	6.0

Customizing the Packages Connected to the RADIA4PR Service

By default, the three OS extension packages (MSI, WMI, and .NET) will be delivered to your client. Therefore, if you do not want to distribute an OS extension, manually remove the connection.

If you are distributing MSI to Windows 95 clients

You must configure the service to reboot immediately after the installation. If you do not reboot the machine and then attempt to install an MSI application, undesirable effects may occur.

If you are distributing MSI and .NET to Windows 98 clients

A reboot automatically occurs after MSI is installed. When the machine boots up again, the .NET installation continues.

To manually disconnect a Microsoft OS extension package from RADIA4PR

- 1 In the Radia System Explorer, go to **PRIMARY.SOFTWARE.ZSERVICE**.
- 2 Double-click Radia Microsoft Windows Platform Prerequisites (RADIA4PR).

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🖻 🚔 Application (ZSERVICE)		👀 ZSTOP002	Expression Resolution Method - 002	
BASE_INSTANCE_	1	👀 ZSTOP999	Stop Unless Radia Connect	
	П	V ZSVCNAME	Service Name/Description	Radia 4.0 Win Prereg
Drag & View	Ш	V ZSVCTTYP	Application Target Type [A/S]	
GS-CALC	П	V ZSVCMO	Mandatory or Optional [M/O/MO/OM]	0
Hadia 4.0 Microsoft Windows Platform Prerec	П	V ZSVCCSTA	Service Status on Client (999)	999
H	П	V ZSVCPRI	Service Create Ordering [01-99]	
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Bemote Control	1	ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRMSOSE
Sales Information		TALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRMSI
StratusPad		LALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRWMI
		LALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRNET
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		ZINIT	Service Initialization Method	
		DELETE	Service Pre-Delete Method	
- Amortize Windows 95/98		ZDELETE	Service Delete Method	
- Amortize Windows NT/2000/XP		BUPDATE	Service Pre-Update Method	
		ZUPDATE	Service Update Method	
		ZVERIFY	Service Verify Method	
GS-Calc Windows 95/98		BREPAIR	Service Pre-Repair Method	
GS-Calc Windows NT/2000/XP		ZREPAIR	Service Repair Method	
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PRIMARY\SOFTWARE\Application (ZSERVICE)\Radia 4.0 Microsof	t V	/indows Platform Prer	equisites\	8/25/2004 12:17 PM

- 3 Right-click the package you want to disconnect.
 - The package Radia 4.0 MSI represents Microsoft's Windows Installer extension.
 - The package Radia 4.0 WMI represents Microsoft's Windows Management Instrumentation extension.
 - The package Radia 4.0 .NET represents Microsoft's.NET extension.

A shortcut menu opens.

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B 49 Hadia 4.0 WMI	C_ALWAYS_	Contains	
Bedbox Organ S Delete Instance	/AYS_	Contains	
Bernote Contro Edit Instance	/AYS_	Contains	SOFTWARE.PACKAGE.R4PRMSOSE
Sales Informati	/AYS	Contains	SOFTWARE.PACKAGE.R4PRMSI
StratusPad	/AYS	Contains	SOFTWARE.PACKAGE.R4PRWMI
Show Connections	/AYS_	Contains	SOFTWARE.PACKAGE.R4PRNET
BASE INSTA Remove Connection Radia 4.	.0 .NET /AYS	Utility Resolution Method	
CLASS_BEH/ Prune Below	EATE	Service Installation Method	RadRexxw MS0sExt.Rex Check &ZM
		Service Initialization Method	
CLIENT_BEF Expand All Connections	ETE	Service Pre-Delete Method	
Amortize Wind Expand one level	ETE	Service Delete Method	
- Amortize Windows NT/2000/XP	BUPDATE	Service Pre-Update Method	
	ZUPDATE	Service Update Method	
- A Drag & View Windows NT/2000/XP	ZVEBIEY	Service Verify Method	
GS-Calc Windows 95/98	BREPAIR	Service Pre-Bepair Method	
GS-Calc Windows NT/2000/XP	ZBEPAIR	Service Repair Method	
Radia 3.0 MSI 9x	ZAVIS	Available.Verified.Installed.Sync F	YXNX
Radia 3.0 MSINT ▼	PUBDATE	Published Date of Service	
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- 4 Select **Remove Connection** *package name*.
- 5 Click **Yes** to confirm that you want to remove the connection.
- 6 Repeat this procedure as necessary.

Checking the Version of Internet Explorer

Next, specify whether you want the RADIA4PR service to check whether the version of Internet Explorer is lower than 5.01 on the client machines during installation of Microsoft's OS extensions.

The service uses the REXX method, **MsOsExt.rex** to check the version of Internet Explorer. If the version of Internet Explorer is 5.01 or higher, the installation continues. If the version of Internet Explorer is less than 5.01, the installation stops and a warning message is written to the MsiOsExt.log (located in the LOG directory on the client machine, by default, *SystemDrive*:\Program Files\Novadigm\LOG) indicating that Internet Explorer does not meet the minimum requirement of 5.01.



To specify whether you want to check the version of Internet Explorer

- 1 In the Radia System Explorer, go to **PRIMARY.SOFTWARE.ZSERVICE**.
- 2 Click Radia Microsoft Windows Platform Prerequisites (RADIA4PR).
- 3 In the right-hand pane, go to the ZCREATE (Service Installation Method).

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Alert / Defer (ALERTDEF)	30 ZSTOP001	Expression Resolution Method - 001	(SUBSTR(EDMGETV('ZMASTER'','Z	
Application (ZSERVICE)	30 ZSTOP002	Expression Resolution Method - 002		
BASE_INSTANCE_	2STOP999	Stop Unless Radia Connect		
Amortize	ZSVCNAME	Service Name/Description	Radia 4.0 Win Prereg	
	ZSVCTTYP	Application Target Type [A/S]		
	ZSVCM0	Mandatory or Optional [M/O/MO/OM]	0	
Hadia 4.0 Microsoft Windows Platform Prefec	V ZSVCCSTA	Service Status on Client (999)	999	
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	C_ALWAYS_	Contains		
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Bedbox Organizer	C_ALWAYS_	Contains		
Bemote Control	LALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRMSOSE	
Sales Information	T_ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRMSI	
StratusPad	T_ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRWMI	
Application Packages (PACKAGE)	T_ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRNET	
BASE_INSTANCE_	LALWAYS_	Utility Resolution Method		
	ZCREATE	Service Installation Method	RadRexxw MSOsExt.Rex Check &(ZM	
	ZINIT	Service Initialization Method		
	BDELETE	Service Pre-Delete Method		
- Amortize Windows 95/98	ZDELETE	Service Delete Method		
Amortize Windows NT/2000/XP	ST BUPDATE	Service Pre-Update Method		
Drag & View Windows 95/98	ZUPDATE	Service Update Method		
Drag & View Windows NT/2000/XP	ZVERIFY	Service Verify Method		
GS-Calc Windows 95/98	SREPAIR	Service Pre-Repair Method		
S-Calc Windows NT/2000/XP	ZREPAIR	Service Repair Method		
Report 20 MSI 9x	ZAVIS	Available,Verified,Installed,Sync F	YXNX	
	V PUBDATE	Published Date of Service		-
PRIMARY\S0FTWARE\Application [ZSERVICE]\Radia 4.0 Microsoft Windows Platform Prerequisites\ 8/25/2004 12:18 PM				

4 Double-click **ZCREATE**.

🙎 Editing Radia 4.0 Microsoft Windows Platform Prerequisites Instance - Last Update: - 08/25/04 12:1 <mark>?</mark> 🗙							
Service Installation Method							
RadRexxw MSOsExt.P	Rex Check &(ZMASTER.ZLIBDRV)&(,	ZMASTER.ZLIBDIR)					
Name	Attribute Description	Value					
IC_ ALWAYS_	Contains						
()C_ALWAYS_	Contains						
ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRMSOSEXTREX					
ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRMSI					
ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRWMI					
ALWAYS_	Contains	SOFTWARE.PACKAGE.R4PRNET					
T_ALWAYS_	Utility Resolution Method						
ZCREATE	Service Installation Method	RadRexxw MSOsExt.Rex Check &(ZMASTER.ZLIBDRV)&(Zl 💌					
•							
		OK Cancel Restore					

Notice that the value is RadRexxw MSOsExt.Rex CheckIE &(ZMASTER.ZLIBDRV)&(ZMASTER.ZLIBDIR)

- CheckIE (in the above line) enables MsOsExt.rex to check whether Internet Explorer is version 5.01 or lower.
- Change CheckIE to NoIEchk to disable version checking for Internet Explorer.



It is recommended that you use the CheckIE parameter if you are deploying .NET or WMI, as Internet Explorer 5.01 is a requirement.

5 If you modified the value, click **OK** to close the **Editing Instance** dialog box and then click **Yes** to confirm your changes when prompted.

Deploying the RADIA4PR Service

Finally, you will need to determine a deployment policy to distribute the service out to your client computers. See the *Radia Application Manager Guide* or the *Radia Software Manager Guide* for more information.

Removing the RADIA4PR service

The RADIA4PR service is a Radia service that will be used only one time—when you are distributing Microsoft's OS extensions in preparation for your Radia upgrade. After this service has been distributed to your users and your Radia Client upgrade is complete, it is removed from your Radia Database using a ZSTOP expression included with the service.

In addition, when the upgrade is complete, the value of the ZPKGRELI variable in the ZMASTER object (located by default in *SystemDrive*:\Program Files\Novadigm\LIB) on the client computer is automatically updated to the current version and install build date (for example V400.20041001).

E ZMASTER	(1) - [C:\Prog	am Files\Novadigm\Lib\] [5136] [9/16/2004]	×
Object Varia	able Heap Opt	ions	
Variable	Length	1 of 1	
DATE	008	0000000	
LOCALUID	000		
SLFINTVL	001	0	
TIME	008	00:00:00	
ZBRC	003	000	
ZCFXSF	001	0	
ZDEVICE	007	CFXNTVT	
ZDEVICEN	003	097	
ZDEVTP	006	NTVTCP	
ZDSTSOCK	004	3464	
ZIPADDR	009	localhost	
ZLIBDIR	028	\Program Files\Novadigm\Lib\	
ZLIBDRV	002	C:	
ZLOGDIR	028	\Program Files\Novadigm\Log\	
ZLOGDRV	002	C:	
ZLUNAME	006	NONSNA	
ZNEWPWD	008	<encrypted></encrypted>	
ZNTFPORT	004	3465	
ZNTFYSEC	001	Y	
ZOBJCRC	008	0000000	
ZOS	005	WIN2K	
ZPATH	026	C:\Program Files\Novadigm\	
ZPKGRELI	013	V400.20041001	
ZPWD	008	<encrypted></encrypted>	
ZROOTDIR	028	\Program Files\Novadigm\Lib\	
ZROOTDRV	V 002	C:	-
		<< >>>	Save/Exit

Figure 1: ZMASTER object.

The next time that the Radia Client connects to the Radia Configuration Server, a method checks this setting and then removes the RADIA4PR service from the Radia Database, which removes all of the installation materials.

The Radia4.htm Page

The Radia4.htm page supports existing Radia clients as well as the new Radia 4.0.1 clients. This page will redirect any Radia 2.x clients to the original Radia1.htm page, while Radia 3.x and 4.x clients will use the new Radia4.htm page.

Updating the Radia HTM Page

- 1 On your Web server, go to *SystemDrive*:\inetpub\wwwroot\RADIA\ and find the Radia 2.X Web page (by default the filename is **Radia1.htm**).
- 2 Rename this file to **Radia2x.htm**.
- 3 Extract **Radia4.htm** from **Radia4.htm.zip** to *SystemDrive*:\inetpub\wwwroot\RADIA\.
- 4 Use a text editor to open **Radia4.htm**.
- 5 Modify the following path and filename to redirect the Radia 2.07, 2.08 and 2.1 clients to the original Web page (now called radia2x.htm).

window.location.replace("http://Server_Name/Radia/Radia2.HTM");

6 If necessary, modify the path in the following line:

<PARAM NAME="StartupFile" VALUE=" Server_Name/Radia/Args.XML">

7 Save and close the file.

Now, your Radia client computers are ready for the Radia Client upgrade.

2 Upgrading Your Radia Clients

Use the information in this chapter to upgrade your Radia Clients to version 4.0.1.

Before you begin:

- Ensure that your Radia Configuration Server supports the use of Radia 2.x as well as 3.x clients.
- Ensure that your Radia Web pages support existing Radia 2.x and 3.x clients
- Prepare your Windows 95, 98, NT, 2000, or XP environment for your upgrade to the Radia 4.0.1 client

Where to find the upgrade materials

You will also need to have the following materials for the upgrade, which are located on the HP OpenView Radia v4 Applications CD in the **\migrate** folder.

Radia Client Upgrade Materials

- In the form of a Radia Client installation service Stored in **\migrate\export_deck\win32**
 - SOFTWARE_ZSERVICE_RADIA401.XPI The Radia Client instance export deck.
 - SOFTWARE_ZSERVICE_RADIA401.XPR The Radia Client resource export deck.
- Standard installation:

— Setup.exe

If the client does not exist, this file launches the standard client installation. If a previous version of the Radia client is detected, this file launches upgrdmaint.exe.

Upgrdmaint.exe

Performs the client upgrade.

— Radia401.msi

The MSI Database file, which contains the default configuration information for the installation and the client components.

- Install.ini
 Customizes the installation or Radia Client arguments file.
- Sub-directories for dotnet, maint, msi, samples, and wmi

See the Radia Application Manager Guide for Windows or the Radia Software Manager Guide for Windows for more information about these files.

System Requirements for the Radia Client 4.0.1

- Windows 9X, Windows NT 4 with Service Pack 6a, Windows 2000, Windows XP, or Windows Server 2003.
- ×

The Radia Software Manager 3.x and above client for Windows requires Microsoft's .NET runtime and is therefore not available for computers running Windows 95.

- A minimum of 30 MB free hard disk space.
- TCP/IP connection to a computer running the Radia Configuration Server.
- For Windows NT, 2000 or XP, you must have administrator rights to the computer to install the Radia Clients.

About the Recommended Upgrade Process

The following is a recommendation for the upgrade process. Following this process ensures that you have the appropriate Radia Database support in order to take advantage of the new features that are available throughout the rest of the Radia infrastructure.



Before beginning the upgrade process, we recommend you take the normal precautions and back up your production environment as needed prior to applying the upgrade.

- Use the Radia Upgrade Preparation Materials to prepare your Radia Clients and your Radia Database. The Radia Upgrade Preparation Materials contain:
 - An optional Radia service that can be used to distribute .NET, WMI, and/or Windows Installer to your client computers *before* you upgrade your Radia environment. Microsoft requires that their operating systems be upgraded with later versions of the operating system extensions that are currently available from Microsoft such as .NET, WMI, and Windows Installer. Refer to Chapter 1 of this guide for more information.
 - The Verify Database Utility that checks the status and integrity of the elements in your Database before you perform the upgrade. See the Radia Configuration Server and Radia Database upgrade guides for more information.
 - Although this can be considered an additional step, we strongly recommend you consider using these materials prior to beginning your upgrade.

• **Upgrade your Radia Configuration Server.** Upgrade your Radia Configuration Server. The Radia Configuration Server is backward compatible. Refer to the Radia 4.0.1 migration documentation located on the Radia Configuration Server CD.

• Upgrade your Radia Database.

Upgrade your Radia Database to use the new features in Radia 4.0.1. Refer to the *Radia Database Upgrade Guide* available on



the Radia Configuration Server CD for instructions on upgrading your Radia database.

• Upgrade your Radia Clients.

Upgrade your Radia Application Manager, Radia Software Manager, Radia Inventory Manager and Dual Mode (if using both unattended and user catalog-based software management services) clients.

• Upgrade your Radia Administrator Workstation.

Upgrade your Radia Administrator Workstation by removing the previous version and installing the new version. It is strongly recommended that you upgrade your Administrator Workstation *after* upgrading your clients. Refer to the Radia Administrator Workstation migration material located on the Radia Infrastructure CD.

About the Radia Client Upgrade

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There are several ways to upgrade your Radia clients:

- Use the Radia Client installation service (*recommended*) Use the Radia Client installation service to distribute the client upgrade.
 - This service does not contain the operating system extensions required by Microsoft. If the appropriate pre-requisites do not exist on the client machine, the installation will fail.
- Use the standard installation media Use the standard installation media to upgrade a machine in your lab environment. The Radia Client upgrade installation contains the standard installation files, as well as the upgrade file. When you run the installation, a standard installation is performed or, if it detects the existence of a previous client version, it launches the upgrade installation. Existing client object attributes are maintained and the client version information is updated to reflect version 4.0.1.



For information about using the standard installation, see the *Radia Application Manager Guide* or the *Radia Software Manager* for more information about these files.

 Run the upgrade from a network drive (Windows only) To run the upgrade from a network drive, use the following command line setup.exe /runlocal

This copies the contents of the upgrade to the local drive and performs the installation.

The /ASYNC switch is required when setup.exe is called from the ZCREATE method to upgrade a Radia Client. This ensures that setup.exe calls Upgrdmaint.exe in an asynchronous mode allowing Upgrdmaint.exe to perform the necessary cleanup tasks for the upgrade process without having to report a completion status to Setup.exe. This allows Setup.exe, Upgrdmaint.exe and Radconct.exe to function independently without becoming locked.

Upgrading the Radia Client for Windows

This section describes how to perform the upgrade using the export decks (SOFTWARE_ZSERVICE_RADIA401.XPI and SOFTWARE_ZSERVICE_RADIA401.XPR).

Importing the Export Decks

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In order to distribute the Radia client upgrade as a Radia service, you must import the Radia Client installation service into the Radia Database.

To import the export decks

- 1 Stop the Radia Configuration Server service.
- 2 Copy **SOFTWARE_ZSERVICE_RADIA401.XPI** and **SOFTWARE_ZSERVICE_RADIA401.XPR** into your Radia Configuration Server's \bin directory.



- 3 Open a command prompt.
- 4 Change the directory to your Radia Configuration Server's \bin directory. For example, C:\HP\ConfigurationServer\bin.
- 5 Type:

```
ZEDMAMS
VERB=IMPORT_INSTANCE,FILE=SOFTWARE_ZSERVICE_RADIA401.XPI
,PREVIEW=N0.
```

- 6 Press ENTER.
- 7 Review the ZEDMAMS.LOG to ensure that there were no errors, and that your import completed with RC 0.
- 8 When the instances have been imported, type: ZEDMAMS VERB=IMPORT_RESOURCE,FILE=SOFTWARE_ZSERVICE_RADIA401.XPR ,PREVIEW=NO.
- 9 Press ENTER.
- 10 Review the ZEDMAMS.LOG to ensure that there were no errors, and that your import completed with RC 0.
- 11 Close the command prompt.
- 12 Start the Radia Configuration Server and use the Radia System Explorer to view the new service, **Radia 4.0.1**, in **PRIMARY.SOFTWARE.ZSERVICE**.

👷 Radia System Explorer - [1:RCS - 1]				×		
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Database Tree View:	Application class Radia401 Instance Attributes:					
🗄 🚱 SOFTWARE	Name	Attribute Description	Value			
Alert / Defer (ALERTDEF)	30 ZSTOP000	Expression Resolution Method	WORDPOS[EDMGETV[ZMASTER_Z0			
🔁 🚔 Application (ZSERVICE)	30 ZSTOP001	Expression Resolution Method - 001	(SUBSTR(EDMGETV('ZMASTER', ZPK			
- 불 _BASE_INSTANCE_	30 ZSTOP002	Expression Resolution Method - 002		1		
	30 ZSTOP999	Stop Unless Radia Connect				
	V ZSVCNAME	Service Name/Description	Radia 401 Client Install			
GS-CALC	1 X ZSVCTTYP	Application Target Type (A/S)	A			
E Radia401	ZSVCM0	Mandatory or Optional [M/0/M0/0M]	0			
Radia 4.0.1 Client Install	ZSVCCSTA	Service Status on Client (999)	999			
Hedbox Urganizer	ZSVCPRI	Service Create Ordering [01-99]	95			
Hemote Lontrol	ILC ALWAYS	Contains				
Sales Information	ALWAYS	Contains		1		
Sudusrau	ILC ALWAYS	Contains				
Auto Bup (EVECUTE)	IC ALWAYS	Contains				
- Behavior Services (BEHAVIOB)	ALWAYS_	Contains	SOFTWARE.PACKAGE.SOFTWARE_P			
Class Defaults (METACLAS)	IT ALWAYS	Contains				
Desktop (DESKTOP)	T_ALWAYS_	Contains				
Dialog Services (DIALOG)	ALWAYS	Utility Resolution Method				
File Resources (FILE)	BCREATE	Service Pre-Installation Method				
HTTP Proxy (HTTP)	ZCREATE	Service Installation Method	&ZMASTER.ZLIBDRVI&ZMASTER.ZL			
🛱 IBM AIX Packages (AIX)	ZINIT	Service Initialization Method				
	BDELETE	Service Pre-Delete Method				
- 🛱 Linux RPM Packages (RPM)	ZDELETE	Service Delete Method				
🎑 Mac Alias (MACALIAS)	BUPDATE	Service Pre-Update Method				
Mac File Resources (MACFILE)	ZUPDATE	Service Update Method				
Mobile File Resource (RMMFILE)	ZVEBIFY	Service Verify Method				
MSI Basic Resources (MSIBASIC)	BREPAIR	Service Pre-Repair Method				
MSI Features (MSIFEATS)	ZREPAIR	Service Repair Method				
MSI Properties (MSIPROPS)	ZAVIS	Available, Verified, Installed, Sync F	YXNX			
Panel Services (MSI)	U PUBDATE	Published Date of Service				
70 AppEndix CLACC Defe 401 attribute() for long			C 200 20005 20.00 DM	-		
V Application CLASS Hadia401 attribute(s) displayed			6/23/2000 2:36 PM			

Figure 2: Radia 4.0.1 service.

Configuring the Radia Client Installation Service

To configure the Radia Client Installation service

- 1 Configure the sample INSTALL.INI for your environment. See the Radia Application Manager Guide for Windows or the Radia Software Manager Guide for Windows for more information.
- 2 Use the Radia Packager's Component Selection Mode to promote **INSTALL.INI**.
 - Type RADIA401CLIENT as the package name and Radia
 4.0.1 Client Install.ini as the description.
- 3 In the Radia System Explorer, go to the package instance (PRIMARY.SOFTWARE.PACKAGE) for **Radia 4.0.1 Client Install.ini**.

Radia System Explorer - [1:RCS - 1] File Edit View Window Help				
i Xeex e II eem 🖬				
atabase Tree View: File Resources class Radia 4.0.1 Client Install.ini:\Instance Attributes:				
🗄 🛞 SOFTWARE 🛛 📕	Name	Attribute Description	Value	
🛱 Alert / Defer (ALERTDEF)	ZRSCNAME	Resource Name	&ZRSCCFIL	
Application (ZSERVICE)	ZRSCCFIL	Resource File Name	Λ	
🖃 🎝 Application Packages (PACKAGE)	V ZRSCMO	Mandatory/Optional on Client [M/O]	0	
BASE_INSTANCE_	ZRSCVRFY	Verify Resource File on Connect	Y	
	ZRSCCONF	Confirm File Download [Y/N]	Y	
	ZRSCRASH	DOS File Attribute [R/A/S/H]	A	
	ZRSCSTYP	Server File Type [BINARY/TEXT]	DIR	
Amortize Windows 95/98	ZRSCMMEM	PDS Member Name		
Amortize Windows N1/2000/XP	ZRSCDATE	Resource Date Stamp - From Promote	20050622	
Drag & View Windows 95/98	ZRSCTIME	Resource Time Stamp - From Promote	12:41:29	
Drag & view windows N1720007AP	ZRSCSIZE	Resource Size - From Promote	0000000000	
CS Calc Windows MT /2000 MP	ZRSCVERS	Resource Version - From Promote		
The Badia 4.0.1 Client Install	ZRSCCSTA	Client File Status	999	
		Resource Checkpoint		
Badia 4.0.1 Client Install ini zalls		Resource CRC		
E → 🗃 Badia 4.0.1 Client Install ini <al></al>	ZERSCENTE	Bestart IY/N1	N	
Radia 4.0.1 Client Install ini	ZBSCOBJN	Persistent Object Name		
🛱 Radia 4.0.1 Client Install ini: \Administrator	ZCMPSIZE	Compressed File Size		
- 🗃 Radia 4.0.1 Client Install.ini: \Administrator\D		Compression Key	LINDEE	
🗃 Radia 4.0.1 Client Install.ini:\Administrator\D	ZBSCSVBB	Version Skin Bebuild Flag IY/N1		
- 4 Radia Behaviors 5/18/99	ZBSCPBI	Create Sequence Priority	02	
- 🖧 Radia Behaviors Panels	ZBSCPADM	Admin ID		
	ZBSCSBC	Besource Source, i.e. Publisher		
		Besource Initialization Method		
- 🌆 Redbox Organizer Windows NT/2000/XP	ZCBEATE	Method to Install Besource		
- 🌆 Sales Demo Windows 95/98		Method to Devinstal Besource	BADBEME	
Sales Demo Windows NT/2000/XP	ZBEPAIR	Client Instance Benair Method	THE TEM	
		Client Instance Hodate Method		
StratusPad Windows 95/98		cient matarice opuate metricu		

- 4 In the right-hand pane double-click **ZRSCCFIL**.
- 5 In the **Editing Instance** dialog box, type the value **install\install.ini**.
- 6 Click **OK**, and then click **Yes** to confirm your changes.
- 7 In the Path instance for **Radia 4.0.1 Client Install.ini**, doubleclick **DRIVE**.

Radia System Explorer - [1:RCS - 1] File Edit View Window Help			
M X B II PURE M M			
Database Tree View:	Path class Radia 4.0.1	Client Install.ini:C:\Documents and :	Settings Instance Attributes:
🖨 🙀 SOFTWARE 📃	Name	Attribute Description	Value
Alert / Defer (ALERTDEF)	DRIVE N	Drive	C:
🖅 🚔 Application (ZSERVICE)	V DIR VS	Directory	\Documents and Settings
🖨 🎒 Application Packages (PACKAGE)	V NAME	Friendly Name	C:\Documents and Settings
	ZRSCPRI	Priority	5
CLASS_BEHAVIORS_FILE_	V ZRSCMO	Mandatory/Optional [M/O]	м
	V OBJGUID	Instance GUID	_UNDEF_
	_		
Amortize Windows 95/98			
Amortize Windows NT/2000/XP			
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A Barlia 4.0.1 Client Install			
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- 🌆 Radia Behaviors 5/18/99			
Radia Client Behaviors			
Redbox Organizer Windows 95/98			
Redbox Organizer Windows NT/2000/XP			
Sales Demo Windows 95/98			
Sales Demo Windows N1/2000/XP			
I I I I I I I I I I I I I I I I I I I	•		
6 Path CLASS C:\Documents and Settings attribute(s) displayed			6/23/2005 2:47 PM

8 In the **Editing Instance** dialog box, set the value of **DRIVE** to **&**(**ZMASTER.ZLIBDRV**).

- 9 Click **DIR** and set the value to **&**(**ZMASTER.ZLIBDIR**).
- 10 Click **OK**, and then click **Yes** to confirm your changes.
- 11 Connect this new package to the **Radia401** service in PRIMARY.SOFTWARE.ZSERVICE.

👷 Radia System Explorer - [1:RCS - 1]			
		r 1011 - An T -	
Database Tree View:	Application class Radia401 Instance Attributes:		
	Name	Attribute Description	Value 🔺
B-10 SOFTWARE	30 ZSTOP000	Expression Resolution Method	WORDPOS(EDMGETV(ZM/
- Du Alert / Defer (ALEHTDEF)	30 ZSTOP001	Expression Resolution Method - 001	(SUBSTR(EDMGETV(ZMAS
	39 ZSTOP002	Expression Resolution Method - 002	
BASE_INSTANLE_	39 ZSTOP999	Stop Unless Radia Connect	
Amortize	ZSVCNAME	Service Name/Description	Radia 401 Client Install
	ZSVCTTYP	Application Target Type [A/S]	A
	V ZSVCMO	Mandatory or Optional [M/O/MO/OM]	0
- A Radia 4.0.1 Cleant Install ini	V ZSVCCSTA	Service Status on Client (999)	999
A Radia 4.0.1 Client Install	V ZSVCPRI	Service Create Ordering [01-99]	95
Bedhox Organizer	ALWAYS_	Contains	SOFTWARE.PACKAGE.RAI
Bemote Control	C_ALWAYS_	Contains	
Sales Information	C_ALWAYS_	Contains	
StratusPad	C_ALWAYS_	Contains	
	LALWAYS_	Contains	SOFTWARE.PACKAGE.SOI
BASE INSTANCE	IT_ALWAYS_	Contains	
	I _ALWAYS_	Contains	
	ALWAYS_	Utility Resolution Method	
- CLIENT_BEHAVIORS_	CREATE	Service Pre-Installation Method	
- Amortize Windows 95/98	ZCREATE	Service Installation Method	& ZMASTER.ZLIBDRV & ZN
- Amortize Windows NT/2000/XP	ZINIT	Service Initialization Method	
- 🀴 Drag & View Windows 95/98	BDELETE	Service Pre-Delete Method	
🐴 Drag & View Windows NT/2000/XP	ZDELETE	Service Delete Method	
GS-Calc Windows 95/98	BUPDATE	Service Pre-Update Method	
GS-Calc Windows NT/2000/XP	ZUPDATE	Service Update Method	
Radia 4.0.1 Client Install	✓ ZVEBIEY	Service Verify Method	
🖻 – 🌆 Radia 4.0.1 Client Install.ini	BBEPAIR	Service Pre-Benair Method	
🖻 📲 Radia 4.0.1 Client Install.ini: <all></all>	ZBEPAIR	Service Bepair Method	
Sadia 4.0.1 Client Install.ini:C:\Documents a	ZAVIS	Available Verified Installed Sunc F	YXNX -
Radia 4.0.1 Client Install.ini: <all></all>	17		
PRIMARY/SOFT) (ARE) Application (70ED) ((CE)) Radia (01)		1000	005 2:49 DM
ji nnimani i vouni wane vappiidatori (ZSERVICE)(Radia401)		6/23/2	000 J 2.43 PM

12 Connect the service to the appropriate users for distribution. See the Radia Application Manager Guide for Windows or the Radia Software Manager Guide for Windows for more information.

After the service is distributed to a user and the version 4.0.1 upgrade is complete, the service will no longer be available to the user and is automatically removed from the desktop in order to save disk space. A ZSTOP expression exists in the Radia401 Application (ZSERVICE) instance, which evaluates to TRUE after the client is upgraded to version 4.0.1. Once this expression evaluates to TRUE, the temporary service folder and the client installation files are removed