# HP OpenView Usage Manager Using Radia

for the Windows operating systems

Software Version: 2.1

User's Guide



Document Release Date: January 2006

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### **Documentation Updates**

This manual's title page contains the following identifying information:

- Software Version number, which indicates the software version
- Document release date, which changes each time the document is updated
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Table 1 indicates changes made to this document since the last released edition.

Chapter	Version	Changes
Chapter 2		Installation and configuration steps for Usage Manager and components have been updated for version 4.1. Review Chapter 2 for the latest procedures and information.

Table 1Document Changes

### Support

Please visit the HP OpenView support web site at:

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### Contents

1	Introduction	11
	Audience	11
	What is the Radia Usage Manager?	11
	Data Collection Types	12
	System Requirements	13
	Hardware and Software Requirements	13
	Processing	14
	Radia Usage Manager Environment	14
	Common Infrastructure Requirements	15
	Radia Infrastructure Requirements	16
	Infrastructure Requirements for Reporting	16
	Recommended Software Configurations	17
	Radia Usage Manager Client Operation Overview	18
	Collection Processing	19
	Collection Point Destinations	
	Client Processing of Data Collection Request	21
	Radia Integration Server and the Radia Usage Manager	22
	Summary	23

# 

Configuring Your Radia Environment	25
Defining a Radia Application Knowledge Base Database for Microsoft SQL	
Server	26

Defining a Radia Application Knowledge Base Database for Oracle	28
Create an ODBC Connection	30
Update httpd.rc File	36
Configuring the put.cfg File (For Knowledge Base Manager)	
Configuring the usage.cfg File	39
Enable Web Reporting	

	Installing and Configuring the Radia Knowledge Base Manager Starting and Stopping the Radia Knowledge Base Manager	
	SQL Server Requirements for the Radia Knowledge Base Manager	49
	Adding the USAGE Domain	49
	Summary	51
3	Radia Usage Manager Client	53
	The USAGE Domain Defined	53
	Significance of Collection Instances	56
	Configuring the Radia Usage Manager Client	
	The Radia Usage Manager Client Installation using Radia Environment	
	Filters	
	Criteria, Rule, and Set	64
	Filter Criteria Class (UMFLTCRI)	
	Filter Rule Class (UMFLTRUL)	
	Filter Set Class (UMFLTSET)	
	Using Filters	
	Filter Set Class Instances	
	Applying Filters	69
	Creating Filters	
	Using Concurrency	76
	Initiating Inventory and Usage Collections	
	Initiating Inventory Data Collection	
	Configuring Usage Data Collection	79
	Defining a Database Collection Point	79
	Initiating a Usage Data Collection Request	
	Initiating a Usage Data Re-collection Request	79
	Enabling Privacy	81
	Summary	83
4	Generating Usage Reports	85
	Accessing the Radia Usage Manager Reports	
	Creating Usage Reports	

By Device	
By User	
By Vendor	
By Product	92
By Product Version	
By Application	96
By Application Version	
By Application Signature	
By Rule Summary	
By Concurrency	
Creating Operational Reports	105
Devices Not Collected	
Devices Collected	
Database Statistics	
Understanding Rules	
Examining Reports	109
Sorting by Column Headings	
Retrieving More Information	
Retrieving Record-Specific Information	
Summary	

### 

Using the Rule Editor	
Rule Editor Search Function	
Creating Criteria, Rules, Rule Sets, and Rule Set Groups	
Operators AND versus OR	
Criteria Tab	
Rules Tab	
Rule Sets Tab	
Rule Set Groups Tab	131
Summary	

### A Implementing the Radia Usage Manager in a Non-Radia

Environment	137
Radia Usage Manager Configuration: Non-Radia Infrastructure	138
Configuring the Radia Usage Manager Client	138

9

- - -

UMSetup.INI File Configuration Parameters	
The Radia Usage Manager Client Install	
Removing the Radia Usage Manager Client	
Copying Required Files	141
Collecting Data	142
Configuring Collection Parameters	
Installing the Radia Usage Manager Client and Collection Parameters	143
Index	145

## 1 Introduction

### Audience

This guide is designed for the system administrator interested in using the Radia Usage Manager to assess the IT enterprise. By doing so, he will increase efficiency by prioritizing and effectively implementing IT software and configuration management projects.

The Radia Usage Manager client is installed with or without an existing Radia infrastructure. However, implementation is much faster and more flexible if you leverage your existing Radia infrastructure. In order to implement the Radia Usage Manager in a Radia environment, you will need a basic understanding of a few Radia components, including the Radia System Explorer and the Radia Management Portal, as well as a general understanding of the Radia Client Connect process.

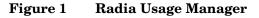
### What is the Radia Usage Manager?

As an IT administrator you can use the Radia Usage Manager to assess patterns of application usage in your environment. This allows you to facilitate adherence to license agreements, re-provision licenses if needed, and monitor user productivity.

The Radia Usage Manager monitors the use of every application on all of your servers, desktops, and laptops. This enables you to:

- Enforce corporate standards by identifying non-standard software and software versions in use within your enterprise.
- Implement license tracking, giving you the ability to purchase and maintain only those licenses that are needed.
- Enable OS migration support by prioritizing software distribution based on actual usage.
- Use reporting to view the actual use of application resources.

The Radia Usage Manager can be used in your existing environment whether or not you are currently using Radia for software distribution. For implementation details regarding non-Radia environments refer to Appendix A, Implementing the Radia Usage Manager in a Non-Radia Environment.





### Data Collection Types

The Radia Usage Manager collects two types of data: usage and inventory.

- Inventory data consists of information about all applications currently installed on a computer.
- Usage data consists of information about what applications were in use over a specific time period.

Usage data incorporates another form of data called concurrency usage. Concurrency usage data is a more specific form of usage data.

Regular usage data is collected on a daily basis anytime an application is used during the course of a day, while concurrency data can be collected for a single application over a period of time as short as fifteen minutes. This ability allows for capacity planning as well as provides specific data



to organizations that may be interested in migrating users into a terminal server environment.

### System Requirements

- Windows 95, 98, NT 4, XP, 2000, or Server 2003 (XP Server).
- For Windows NT, 2000, or XP, you must have administrator rights to the computer to install the Radia Usage Manager.

#### Hardware and Software Requirements

- Radia Usage Manager Client Windows 95, 98, NT, 2000, XP, or Server 2003.
- Radia Knowledge Base (KB) Manager Windows NT, 2000, XP, or Server 2003.
- Radia Application Knowledge Base Microsoft SQL Server 2000 with service pack 3 Oracle 8i, 9i
- Reporting
   Radia Usage Manager Tcl Server Pages

#### Radia Infrastructure

Radia Application Manager or Radia Software Manager

- Radia Configuration Server
- Radia Integration Server
- Radia Management Portal
- Radia System Explorer



### Processing

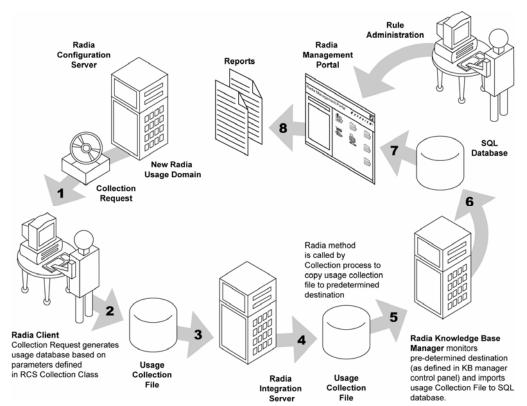
• You can distribute and install the Radia Usage Manager client on your computers using your existing Radia infrastructure. Default Radia-defined installation settings install and configure the Radia Usage Manager client to perform executable inventory scanning, application usage, and usage data collection through predefined Radia Usage Manager packages. The next time a client connects to the Radia Configuration Server, the package is delivered and Radia Usage monitoring automatically begins.

Periodically, the usage data is collected based on user-defined parameters. This data is sent to a predefined collection point for further processing. Collection points may be a network share or a Radia Integration Server destination. This location is monitored by the Radia Knowledge Base Manager, which in turn extracts the usage data from the files collected from each client computer and loads this data into your SQL-enabled database, making the data available for reporting purposes. Reports can be generated using the Radia Management Portal or Active Server Pages.

### Radia Usage Manager Environment

The Radia Usage Manager has different infrastructure requirements based on whether or not Radia is used to manage the environment.





#### Figure 2 Radia Usage Manager Radia environment

#### Common Infrastructure Requirements

Common infrastructure requirements are needed for both Radia and non-Radia management of the Radia Usage Manager environment to capture usage data on the client and move the data to a server, and ultimately to an SQL database for reporting purposes.

Common infrastructure includes the following computers with the required software installed:

Monitored Client or Server

Radia Usage Manager Client and its configuration

SQL Database Server

 $\label{eq:main_select} \begin{array}{l} \mbox{Microsoft SQL Server and its enterprise management tools} \ (may \ be \ an \ MSDE \ version \ for \ evaluation) \end{array}$ 

Introduction

- Knowledge Base Manager Server Radia Knowledge Base Manager
- Radia Usage Manager Administrator Radia Usage Manager Rule Editor

For information regarding non-Radia management of the Radia Usage Manager refer to Appendix A, Implementing the Radia Usage Manager in a Non-Radia Environment.

### Radia Infrastructure Requirements

In addition to the common infrastructure requirements, additional components must be available for Radia management of the Radia Usage Manager environment. Radia infrastructure requires the following computers and installed software:

- Radia Database Administrator
   Radia Administrator Workstation
- **Radia Configuration Server** Radia Database USAGE domain
- Radia Integration Server
- Enable HTTP File Copy

#### Infrastructure Requirements for Reporting

The infrastructure needed to support reporting differs based on whether Radia has been installed and whether the Radia Management Portal has been licensed. Web-enabled reporting is available through Active Server Pages (ASP) or through the Radia Management Portal's use of Tcl Server Pages (TSP). The reporting software may be installed by anyone who requires the ability to view and generate reports.

• Active Server Pages reporting

Microsoft IIS

Radia Usage Manager Active Server Pages

Radia Management Portal reporting

Radia Management Portal

Radia Usage Manager Tcl Server Pages



### **Recommended Software Configurations**

A single server may have one or more software components installed to minimize the number of computers required. The following are recommendations for consolidating software:

#### **SQL Database Server**

To minimize hard-drive thrashing, the SQL database server should have at least two hard drives. Each drive would store:

- The SQL database
- Collection files from each monitored machine

#### **Knowledge Base Manager Server**

may be installed on:

- SQL Database Server (recommended)
- Radia Integration Server
- Another server

#### **Radia Usage Manager Administrator**

may be installed on the:

- Administrator's workstation (recommended)
- Knowledge Base Manager Server

#### **Client Usage Collection File Destination**

The Radia Usage Manager generates files on the monitored machines that contain both the current executable inventory and the usage information. This information is transferred through the network so it can be imported into an SQL database. To eliminate network transfer during SQL database import, it is recommended that collection files be placed on the Knowledge Base Manager Server, which is also the SQL database server machine.

### Radia Usage Manager Client Operation Overview

The Radia Usage Manager client supports monitoring of all executable usage, including 16 bit modules.

Once monitoring has started, there are three usage files on the client machine: the **active application monitoring file**, the **history file**, and the **collection file**.

#### Active Application Monitoring File

• Contains current application usage information, including (where available):

Machine name Machine domain name OS major, minor, build versions User name User domain name Vendor name Product name Product version Application name Application version Original application name (if renamed) Application description Application module file type Path name application was launched from Logical root folder name (i.e., ProgramFilesFolder) Remaining path name MD5 hash Link time number of times application was launched number of seconds application was active

number of seconds application was in the foreground or "in-focus"

#### History File

- Data will be accumulated in a history file by machine, user, executable, and day. Note that data is summarized by day in the history file.
- The usage history file will be maintained for a designated period (default is the last 12 months).
- Old data is aged out of the file.
- The client history file will maintain separate entries for all executable inventory and usage data reported to each database.

#### Collection files

- Contains the usage and current executable inventory data that is to be imported into a specific SQL database. Data collection will be done on a per SQL database basis.
- Each SQL database has a filter policy associated with it that contains a set of filtering rules. A collection file is built for each database.
- There can be any number of usage monitor SQL databases that can request the same or different data from any client based on the filtering rules.
- Filter policies will be maintained for each database on the client or as objects in the Radia Configuration Server.
- The client generated collection file must be sent to the correct database import path. The Radia Knowledge Base Manager will perform importing of the collection data file.
- When implemented through Radia, the default collection file name is the &ZOBJID of the UMCOLLCT class.

### **Collection Processing**

When collection is requested for a database, the client will compare the current archive data against the reported data for that database. All file inventory data will be compared. Usage data is only compared for files that pass the inclusion filter. Any differences in inventory or usage are added to the collection file, which then is sent to an SQL database.

Once the collection file has been created, it is sent to the destination defined in the UMDESTPT class, COLLDEST instance attribute, or the USDBCOLL.ini CollectionPoint parameter for non-Radia implementations.

To minimize bandwidth requirements, the collection files contain only what has not yet been sent to the specific SQL database requesting the collection. These files also contain data aging and deletion information for removing old data from the SQL database.

The history file contains all usage data, regardless if it has been requested for upload into a SQL database for the machine and all of its users. The history file contains up to one year's data and as new days are added, data older than one year is deleted. This feature allows a SQL database collection process to modify policy collection filters to capture any data that is up to a year old. If a new SQL database is added as a destination point, then it can request any of this data from any machine that the Radia Usage Manager has monitored either presently or in the past.

#### **Collection Point Destinations**

A collection point is a directory destination where a collection file is copied to and automatically imported into a SQL database by the Radia Knowledge Base Manager.

#### Automated Import

Automated import directories are watched by the Radia Knowledge Base Manager automated import service. Each time a new collection file is placed in an autoimport directory, the Radia Knowledge Base Manager will recognize this and then:

- Connect to its pre-configured SQL database through a system-level ODBC connection.
- Import the contents of the collection file into the SQL database.
- Archive the collection file once the import is successful, or copy it to an error directory should the import fail for any reason.
- Perform a rollback of the import if the import is unsuccessful.

#### Collection Destination Point Unavailable

If a collection request fails to successfully copy the current usage data, then the collection file is placed in the Usage Manager\Collect directory with the file name DatabaseName.USDBase, where DatabaseName is the file name set in the UMDBASE class, DBNAME instance attribute or the



USDBCOLL.ini, **DatabaseName** parameter for non-Radia implementations. This file can then be manually collected by copying it from the machine, or it will be recreated with the latest application usage data and then collected when the client receives the next collection request.

### **Client Processing of Data Collection Request**

The monitoring process collects data for every executable that has been run on the machine. This data is saved in the *active monitoring file*. Since administrators need reports on what exists on the machine, but has not been used, an executable inventory is also run to augment the active usage data collected.

Since the inventory capture process may take several minutes to complete, the inventory process can be configured during installation to be collected at a pre-defined time, daily or weekly at, for example, 1:00 AM Sunday. The request for data collection can aggregate this pre-collected inventory data with the current usage monitoring data at the time of the collection request. Also, the inventory collection can be configured to run at the time the collection request is issued to provide a more up-to-date inventory. Since the executable file inventory scan can take several minutes, the request for collection is performed synchronously once the inventory scan has finished.

Collection of monitoring data is initiated by running an executable with the appropriate command line parameters. Each collection request is SQL database-specific and the technique of launching an executable allows one or more collection requests to the same client computer for either the same or differently filtered data destined for different SQL databases.



The usage time for appropriate applications is collected based on parameters that you select. This usage time should not be confused with focus time (the time that an application was in focus, that is, the active window in the forefront on a user's desktop).

# Radia Integration Server and the Radia Usage Manager

The Radia Usage Manager requires components under the control of the Radia Integration Server. The Radia Integration Server integrates independent modules, such as the Radia Inventory Manager, the Radia Management Portal, and the Radia Policy Manager, giving them access to all the functions and resources under the control of the Radia Integration Server.

The Radia Integration Server provides Web services that are shared by all loaded modules, resulting in a single entry point for all HTTP (Web-based) requests. This integration provides performance, efficiency, and ease of maintenance in an adaptable and cohesive (server) framework. The Radia Usage Manager leverages Radia Infrastructure Server abilities to perform HTTP-based file copying to move collection files containing usage data from monitored machines to server directories that are then imported into a SQL database.

Chapter 1

### Summary

- The Radia Usage Manager may be configured to leverage existing Radia infrastructure or capture and report on usage data without it.
- Radia Usage Manager collects two types of data: usage and inventory.
- The Radia Usage Manager benefits IT administration by allowing them to monitor application usage and cut costs.
- Radia implementations of the Radia Usage Manager require the use of Radia products, including the Radia Administrator Workstation, Radia Configuration Server, and the Radia Integration Server.

Introduction

Chapter 1

# 2 Configuring Your Environment

### Configuring Your Radia Environment

Before you can use the Radia Usage Manager, your Radia environment must be prepared. To configure your Radia components to use the Radia Usage Manager you will need to complete the following tasks:

- 1 Configure your database.
  - Configure your ODBC connection.
- 2 Install and configure Radia Usage Manager software:
  - Radia Configuration server

Installation requirements, as well as instructions for installing the Radia Configuration Server, are documented in the *HP OpenView Configuration Server Using Radia User's Guide*.



Make sure you select the **Usage Manager** option during the installation.

- Radia Management Portal (recommended but not required).
   General requirements and instructions for installing the
   Management Portal are documented in the Installation and
   Configuration Guide of the HP-OpenView Management Portal Using
   Radia for Windows. This guide is provided on the HP technical
   support site and on the Radia 4.1 Publications CD.
- Radia Administrator Workstation

Installation requirements, as well as instructions for installing the Radia Administrator Workstation 4.0.1, are documented in the HP OpenView Application Manager Using Radia Installation and Configuration Guide, and in the HP OpenView Software Manager Using Radia Installation and Configuration Guide.

- Radia Integration Server (If the Management Portal is installed, Radia Integration Server is installed automatically.)
- Radia Usage Manager Administrator
- Radia Knowledge Base Manager (one per SQL database) and a configured ODBC connection.



- 3 Configure your Radia Usage Manager client using the Radia System Explorer.
- 4 Install the Radia Usage Manager client.

The Radia Usage Manager requires that the USAGE domain be included in your Radia Database. The USAGE domain is included with version 4.0 of the Radia Database. If you are using an earlier version of the Radia Database, you will need to import the USAGE domain into your database. For more information, see Adding the USAGE Domain on page 49.

• The following sections describe the steps needed to configure your environment. Radia Usage Manager client installation and configuration (steps 3 and 4 above) is covered in Chapter 3, Radia Usage Manager Client.

#### Task 1 Configuring the Radia Usage Manager Database Schema

The Radia Usage Manager Knowledge Base is a database that contains the application usage data that is needed to effectively manage the enterprise including information about the machines, users, files, and file usage. It is designed such that application packaging and other state file data generated by the Radia Extensions for Windows Installer and Radia Inventory Manager can be leveraged during data analysis and reporting.

Refer to the instructions below for information about how to configure your database schema using either a SQL Server or an Oracle database.

# Defining a Radia Application Knowledge Base Database for Microsoft SQL Server

New Radia Usage Manager databases are created using the SQL data definition language files referenced below.

Use the following steps to create the Radia Usage Manager database for a Microsoft SQL Server database.

First, create the Radia Usage Manager database.

To create the Radia Usage Manager Database for SQL Server

- 1 Open the SQL Server Enterprise Manager.
- 2 Right-click the Database folder for the appropriate server and select **New Database**. Complete the entries as follows:



#### **General Tab**

— Name

 $Radia RUM \ (or \ a \ name \ of \ your \ choice \ excluding \ blanks \ and \ underscores)$ 

#### **Data Files Tab**

— File Name

 $RadiaRUM\_Data$  (or name of your choice excluding spaces). Set the initial size to 1000 MB.

Select Automatically grow file by 20%



For improved performance, we recommend the Radia Usage Manager database be created on a drive other than the drive used to create state files.

#### **Transaction Log Tab**

#### — File Name

RadiaRUM\_Log (or a name of your choice excluding blanks). Set the log size to 250 MB.

- 3 Click **OK** to create the database and log files. The Radia Usage Manager database is now added to the Databases folder of your server, within the Server Manager.
- 4 When you are finished creating the database, create the database table schema.

#### To create the table schema for SQL Server

- 1 Within the SQL Server Enterprise Manager, in the Tools menu, select **SQL Query Analyzer**.
- 2 Make sure the drop-down box displays the database you just created.
- 3 From within the Query Analyzer, open your Radia Usage Manager media and navigate to \SQL server\SQL Server 2000\.
- 4 Execute each SQL script in the directory in order (the scripts are named accordingly) beginning with Step 2:
- 5 Use Query Execute or press **F5** to run each script. At the end of the query execution you will see a series of messages possibly displaying sysdepends dependency and several row insertions. This indicates a successful installation of the database definitions.
  - Step2\_Define\_UsageManager\_Tables.sql

Configuring Your Environment

- Step3\_Define\_Common\_Tables.sql
- Step4\_Define\_Views.sql
- Step5\_Define\_Stored\_Procedures.sql
- Step6\_Insert\_Common\_Functions.sql
- Step7\_Insert\_Common\_DefaultData.sql
- 6 Close the SQL Query Analyzer.

#### Defining a Radia Application Knowledge Base Database for Oracle

Configuring your database schema for Oracle requires the execution of several SQL script files that are provided with your Radia Usage Manager media in the Oracle directory. Copy these files to a location accessible by your Oracle administrator. Make sure to use the files located in the appropriate Oracle version directory. The scripts will, by default, install the database into the Radia user's schema.

To configure your Radia Application Knowledge Base database schema for Oracle

- Define a system environment variable Oracle\_Home on your administrator computer (for Oracle 9i, create ORACLE\_HOME=C:\Oracle\Ora92, for Oracle 8i, create ORACLE\_HOME=C:\Oracle). This allows the scripts you will run in the next few steps to locate your Oracle directory.
- 2 Use the Oracle DBA Studio application (for Oracle version 8i and below) or the SQL Plus Worksheet application (for Oracle version 9i and above) and login as a database administrator.
- 3 Execute the SQL scripts that are on your Radia Usage Manager media in order, as determined by their filenames, making sure to include the correct path to the script locations. Review the comments within each script (step 1 through step 5).



Make sure to select the correct group of SQL files depending on the version of Oracle you are using.

#### For Oracle 8i

Include the rollback segment names created under  ${\tt step2}$  in the <code>init.ora file</code>

- Step1\_Define\_TableSpaces.sql
- Step2\_Define\_RollbackSegments.sql



- Step3\_Define\_Common\_Roles.sql
- Step4\_Define\_Common\_Tables.sql
- Step5\_Define\_UsageManager\_Tables.sql
- Step6\_Insert\_Common\_DefaultData.sql

#### • For Oracle 9i

Include the rollback segment names created under step2 in the init.ora file

- Step1\_Define\_TableSpaces.sql
- Step2\_Define\_Common\_Roles.sql
- Step3\_Define\_Common\_Tables.sql
- Step4\_Define\_UsageManager\_Tables.sql
- Step5\_Insert\_Common\_DefaultData.sql

For example, if your SQL scripts are located in the directory \RadiaUsageManager\Oracle\Schema, you would execute the first script by typing

#### SQL> @C:\RadiaUsageManager\Oracle\Schema\Step1\_Define \_TableSpaces.sql

followed by Enter.

4 Make sure each script executes properly.



The .sql scripts preceded with Step99 and Step99a are used only for removing the Radia Usage Manager Database. They are not required here.

#### Service Pack Installation

When you're finished executing the SQL scripts, you need to apply the supplied service packs located within the Oracle version directories within the ServicePacks folder. There are two types of service packs supplied, **required** and **optional**. Apply the required service packs first, in the proper order, then, if desired, apply the optional service packs.

To apply the service packs for SQL Server

1 Within the SQL Server Enterprise Manager, in the **Tools** menu, select **SQL Query Analyzer.** 

Configuring Your Environment

- 2 Make sure the drop-down box displays the correct database.
- 3 From within the Query Analyzer, open your Radia Usage Manager media and navigate to \SQL server\SQL Server 2000\ServicePacks.
- 4 Execute the service pack SQL scripts. Make sure each script executes properly.

#### To apply the service packs for Oracle

- 1 The service packs are located within the Oracle version directories within the **ServicePacks** folder.
- 2 Use the Oracle DBA Studio application (for Oracle version 8i and below) or the SQL Plus Worksheet application (for Oracle version 9i and above) and login as a database administrator.
- 3 Execute the service pack SQL scripts located within the ServicePacks folder within the proper Oracle version directory of your Radia Usage Manager media, making sure to include the correct path to the script locations. Run the scripts in order as determined by their filenames.
  - After applying the SERVICE\_PACK\_XXX.SQL files, the Oracle server does not recompile all of the parent views when a child view is updated. This leaves a number of views invalid after applying the updates. To make sure all views are valid, select all of the views in the SQL Enterprise Manager, right-click and select **Recompile**. This will re-validate all of the views.

#### Create an ODBC Connection

To create an ODBC connection.

1 From your system's control panel, go to **Administrative Tools** and double click **Data Sources (ODBC)**.



	a Sources:	Add
Name .ocalServ	Driver EL SQL Server	Remove
		<u></u>
<b>/</b>	An ODBC System data source stores info	ormation about how to connect to
	the indicated data provider. A System d on this machine, including NT services.	

2 Click the **System DSN** tab and then click **Add**.

Configuring Your Environment

2.2	
2	Microsoft FoxPro VFP Driver (*.dbf) Microsoft ODBC for Oracle
Z. A	Microsoft Paradox Driver (*.db.)
4.	Microsoft Paradox-Treiber (*.db.)
4	Microsoft Text Driver (*.txt; *.csv)
4	Microsoft Text-Treiber (*.txt; *.csv)
1.	Microsoft Visual FoxPro Driver
1.	Microsoft Visual FoxPro-Treiber
21-	SQL Server
► F	4
ليند	
	SOL Server

- 3 A list of drivers is displayed. Select SQL Server (If the database you just installed is in Sql server) or Microsoft ODBC for Oracle (If the database you installed is in Oracle).
- 4 For an Oracle database, enter the Data Source Name, Description, Username and Server.
- 5 For Sql Server, select **SQL Server** and click **Finish**.
- 6 The following window opens.



Create a New Data Sour	ce to SQL Server	×
Create a New Data Sour	This wizard will help you create an ODBC data source that you can use to connect to SQL Server. What name do you want to use to refer to the data source? Name: RadiaUsageManager How do you want to describe the data source? Description:	
	Which SQL Server do you want to connect to?         Server:         Finish         Next >         Cancel	_

- 7 Enter the appropriate name (any name of your choice), description and the server name. The Server name may be selected from the drop down list or may be entered manually.
- 8 Click Next.
- 9 For the Authenticity of the login ID option, select the option, With SQL Server authentication using a login ID and password entered by the user.

Configuring Your Environment



Create a New Data Sour	e to SQL Server		×
Selact a diriver run me on daase r on daase	• With Windows NT authors • With SQL Server authors entered by the user.	the authenticity of the login ID? entication using the network login ID. ntication using a login ID and password used to communicate with SQL Server,	
	Connect to SQL Server to additional configuration opt		
	<u>_assword.</u>	t> Cancel Help	_

- 10 Enter the Login ID and password, and click Next.
- 11 Select the database Name from the drop-down list or enter it manually.

Selact a driver no.	Change the default database to:           RadiaRUM	
off dBase	Attach database filename:	
soft Excert in crosoft ForPri cosoft Pare SOL Scrut	Create temporary stored procedures for prepared SQL statements and drop the stored procedures: C Dnly when you disconnect. When you disconnect and as appropriate while you are connected. Use ANSI quoted identifiers. Use ANSI nulls, paddings and warnings. Use the failover SQL Server if the primary SQL Server is not available.	
	< <u>B</u> ack <u>N</u> ext > Cancel Help	

12 The remaining options can be left with their default settings.

- 13 Click Next.
- 14 Click Finish.

Create a New Data Sour	ce to SQL Server	X
Select a dirver nor me off dBase I off dBase I off dBase I off dBase I off dBase I off dBase I off dBase off coole off dBase Select a dirver nor off dBase off coole of dBase of coole of dBase off coole off dBase off coole off coole off coole off coole of dBase off coole off coole o	<ul> <li>Change the language of SQL Server system messages to:</li> <li>English</li> <li>Use strong encryption for data</li> <li>Perform translation for character data</li> <li>Use regional settings when outputting currency, numbers, date times.</li> <li>Save long running queries to the log file:</li> </ul>	s and
- Halin	C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\QU Bjow	se
	Long query time (milliseconds): 30000	
	Log ODBC driver statistics to the log file:	
	C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\ST Brow	se
	< <u>B</u> ack Finish Cancel He	elp

15 The ODBC connection is created. Test the connection by using the Test Data Source feature.

Task 2 Configuring Radia Integration Server and Web Reporting Components

Oracle requires an Oracle client be installed on the computer where the Radia Knowledge Base Manager is located as well as on the computer where the Radia Integration Server is installed.

You must have an active Radia Integration Server available for processing requests to copy the application usage files (.USDB) from each client computer to a central location for importing into your SQL database. This server provides the collection file destination processing necessary to receive this information and make it available to the Radia KB Manager automated import functions that populate a database.

A single Radia Integration Server may serve as the focal point for gathering usage files that are to be imported from each client into different SQL databases. However, it is recommended that a Radia Integration Server serve only a single SQL database. The Radia KB Manager and Radia Integration Server may run on the same computer.

Configuring Your Environment

Your Radia Integration Server must be restarted after configuring the components required by the Radia Usage Manager.



Before copying and replacing any files, make sure to create a backup.

#### Update httpd.rc File

Stop the Radia Integration Service through the **Administrative Tools\Services** options of the Control Panel

Either copy the httpd.rc file included on your Radia Usage Manager CD-ROM (located in the \IntegrationServer\ directory) to your Radia Integration Server root directory,

or

add the following plug-in commands to your existing httpd.rc file located in \novadigm\Integrationserver\etc

```
# HTTP Put Server
Module Load Put
# Radia Usage Manager
Module Load Usage
```

Start the Radia Integration Service. When you start the Radia Integration Server, this updated file is used.

#### Configuring the put.cfg File (For Knowledge Base Manager)

Copy the put.cfg file from the Radia Usage Manager CD-ROM to the Radia Integration Server /etc directory, or update the existing put.cfg. This file identifies and correlates an HTTP URL with a destination directory to which to copy the .USDBASE files.

When the Radia Integration Server is started, a put.cfg file is created. If you already have this file in your IntegrationServer\etc directory, it will not be overwritten. This file must be updated if you intend to use multiple SQL databases.

No editing of this file is required unless you want to change the default location of the automated import directory that the Radia Knowledge Base Manager monitors and will use to update the SQL database. The default location is C:\Usage Manager\KB\_Mgr1\_Usage.



#### Using Multiple SQL Databases

To configure the Radia Integration Server to accept usage database files to be imported into different SQL databases, modify the put.cfg script to create a new destination directory for each of the unique SQL databases. Do this by adding the text in the code sample below between the Begin and End comment lines. Lines beginning with a pound sign (#) are comment lines that are not processed.

The following is a sample script:

```
# -----
# - RIS Usage Manager Destination Directories - BEGIN
# ______
# _____
# - The following two lines create a directory that a
Knowledge Base Manager
# - service is watching so it can autoimport Usage Manager
information into an
# - SQL database. This directory creation can be extended to
any number of
# - specific directory/Knowledge Base Manager/SQL database
environments.
# -
# - This request is configured as the Collection Point
destination
# - For example:
# - CollectionPoint=HTTP://192.168.101.151:3466/KB Mgr1 Usage/
# -
# ______
file mkdir $Config(ROOT)/etc/usage
file mkdir [set dir "$Config(ROOT)/etc/Usage/KB Mgr1 Usage"]
Put AddRoot /KB Mgr1 Usage $dir
# ______
# -
# - The 'file mkdir' line defines the physical directory that
is the HTTP
```

Configuring Your Environment

# request file destination. # The 'Put AddRoot' line defines the last node in the HTTP # request. For example: # -# -HTTP://192.168.101.151:3466/KB Mgr1 Usage/ # -# - would result in the Usage Collection File being copied to the directory <<RIS Path>>\etc\Usage\KB Mgr1 Usage # -# \_\_\_\_\_\_ # - Repeat the above two lines to create additional CollectionPoint/KB Manager # - auto import directories. # \_\_\_\_\_\_ #file mkdir \$Config(ROOT)/etc/usage #file mkdir [set dir "\$Config(ROOT)/etc/Usage/KB Mgr2 Usage"] #Put\_AddRoot /KB\_Mgr2 Usage \$dir # -----# - RIS Usage Manager Destination Directories - END # \_\_\_\_\_

In the sample script an enterprise and a local level SQL database are used by the organization on a single Radia Integration Server. There is a Radia KB Manager automated import service running on two separate computers. One of these monitors activity in the KB\_Mgr1\_Usage folder and the other monitors activity in the KB\_Mgr2\_Usage folder.

The file mkdir[set dir "physical directory name"] command sets the physical directory that the usage files are going to be copied into from the HTTP PUT request.

The Put\_AddRoot /logical\_name \$dir command associates the http logical collection point with the name of the physical file into which the file is copied. The collection point is defined in the Radia Configuration Server USAGE domain in the UMCOLLCT object as:

HTTP://RIS\_IP\_destination:port\_number/Logical\_name

Chapter 2

For example, by setting a collection point destination of:

HTTP://192.168.0.150:3466/KB\_Mgr1\_Usage

The client usage files will be sent to the Radia Integration Server and copied into the directory

RIS Path\Usage\KB Mgr1 Usage\UsageFile.USDBase

The Radia KB Manager would then be configured to watch for activity on the directory <<RIS Path>>\Usage\KB\_Mgr1\_Usage and perform automated import processing of the data into its associated SQL database once the file has been copied.

When finished copying and editing the files, start the Radia Integration Server. The directory C:\Usage Manager\KB Mgr1 Usage is created.

### Configuring the usage.cfg File

Copy the appropriate usage configuration file from your Radia Usage Manager CD-ROM (located \IntegrationServer\etc) to your Radia Integration Server etc directory (by default C:\Novadigm \IntegrationServer\etc). Depending on which database type you are using, copy the appropriate file.

- For Oracle, copy usage Oracle.cfg
- For SQL, copy usage\_SQL\_Server.cfg

Once copied, rename this file to usage.cfg.

Then, using a text editor, open the usage.cfg file and enter your ODBC name, user ID, and password. You may also change the DSN value if required. The next code sample is an example of a configured usage.cfg file that uses dbo as the user name and a blank password.



The user ID used in the usage.cfg file must have sufficient access rights to select and execute stored procedures and functions.

A sample configured usage.cfg file will look like the following:

```
usage::init {
```

DATABASE	"SQLSERVER"
DSN	"RadiaUsageManager"
DSN_USER	"dbo"
DSN_PASSWD	

Configuring Your Environment

```
DL DATEFMT {%Y-%m-%d %T}
```

```
}
```

### Enable Web Reporting

To enable Web reporting, copy the Tcl server pages \usage directory located in the Usage Manager media \Radia Server Pages - Web Reports directory to the root of your Novadigm\IntegrationServer directory.

### Task 2 Installing the Radia Usage Manager Administrator

The Radia Usage Manager Administrator allows you to create rules that will enable you to select which data will be used to create your usage reports. Install this component on an administrator's workstation (preferred), or on the computer that houses the Radia Knowledge Base Manager.

### To install the Radia Usage Manager Administrator

- 1 From your Radia Usage Manager media, navigate to the Radia Usage Manager Administrator directory.
- 2 Double-click **Package.msi** to start the installation.
- 3 Click Next.

The end-user license agreement dialog box opens.

4 Read and accept the HP Software License terms. Click Next

The installation location dialog box opens.



🔂 Radia Usage Manager Administrator Setup	×
<b>Installation Customization</b> Set the following installation variable to the desired value.	$\odot$
Enter the path name where you want to install Novadigm applications	
C:\Program Files\Novadigm\	
	Browse
< <u>B</u> ack <u>N</u> ext >	Cancel

- 5 Type the location where you want to install the Radia Usage Manager Administrator, or click **Browse** to navigate to a location.
- 6 Click Next.

The serial number dialog box opens.

Configuring Your Environment



🙀 Radia Usage Manager Administrator Se	tup		×
Installation Customization Set the following installation variable to the	desired value.		$\odot$
Enter the Novadigm Serial Number			
RA-00-0000-00000000-0000-0000-xxxx			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

7 Enter your serial number and click Next.

The Ready to Install dialog box opens.

- 8 Click Install.
- 9 When the installation is finished, click **Finish**.

The Radia Usage Manager Administrator is installed and a Rule Editor shortcut is added to your Programs Menu under Radia Usage Manager. Once an ODBC connection to a database is established, use the start menu shortcut or the RADPIMGR.exe file (located in the \Program Files\Novadigm\Usage Manager\bin\ directory by default) to access the Radia Usage Manager Administrator.

### Task 3 The Radia Knowledge Base Manager

Oracle requires that an Oracle client be installed on the computer where the Radia KB Manager is located, as well as the computer where the Radia Integration Server is installed.

The **Radia Knowledge Base Manager** provides services to manage the Radia Usage Manager Knowledge Base. It also services requests for a Radia Application Knowledge Base available through the Radia Extensions for



Windows Installer product. The Radia Knowledge Base Manager installs as a Windows service on a Windows 2000 or above workstation or server.

The Radia Knowledge Base Manager performs automated import processing of Radia state files into the Radia Application Knowledge Base. Automated importing may be defined for the following types of directory structures:

- Radia Usage Manager collection files extension (USDBase).
- Simple state file automated import directories containing Radia state files (.ISState extensions). These are typically created by the Radia Packager for Windows Installer or the Radia Patch Manager.
- Radia Configuration Server service export directories that have required subdirectory structures that are built by the Radia Extensions for Windows Installer features which enable extraction and conversion of Radia packages contained in Radia Services to .ISState file formats.

The Radia Knowledge Base Manager automated import server runs independently of the Radia Configuration Server to import files found in the automated import directories.

### Installing and Configuring the Radia Knowledge Base Manager

For installation instructions, refer to the *Radia Knowledge Base Manager Guide*, available on the HP OpenView support web site.

Once an ODBC connection to a database is established, configure the Radia Knowledge Base manager using the control panel application **Radia KB Manager Configuration**. When finished with the configuration, start the Radia Knowledge Base Manager service.

#### Configuring the Radia Knowledge Base Manager

Configuration for the Radia KB Manager is controlled through the **Radia KB Manager Configuration** control panel.

Configuring Your Environment

Control Panel						
File Edit View Favorites Tool						
🗧 Back 👻 🔿 👻 🔂 🔞 Search	Folders	GHistory	e e X s	) <b>III</b> -		
Address 🗟 Control Panel						💌 🔗 Go
	ć.			78		łł
Control Panel	Accessibility Options	Add/Remove Hardware	Add/Remove Programs	Administrative Tools	Advanced Client Conf	CSNW
Use the settings in Control Panel to personalize your computer.	器	2	<u> </u>	Aa	ø.	<b>E</b>
Select an item to view its description.	Date/Time	Display	Folder Options	Fonts	Game Controllers	Internet Options
Windows Update Windows 2000 Support		<b>D</b>	Ø	j		ų
	Keyboard	Mail	Mouse	Network and Dial-up Co	Phone and Modem	Power Option
		Š <mark>e</mark>	3		0	
	Printers	Radia KB Manager Configuration	Regional Options	Scanners and Cameras	Scheduled Tasks	Sounds and Multimedia
	La constante da la constante d					
	System	Users and Passwords				
5 object(s)					📃 My Comp	uter

### Figure 1 Radia Knowledge Base Manager Control Panel icon

To access the Radia KB Manager Control Panel

- 1 Click Start→Settings→Control Panel.
- 2 Double-click the Radia KB Manager Configuration icon.

The Radia Knowledge Base Manager Configuration window opens.



Directory New Task Delete Task
Modify Task
Save Configuration
Revert Configuration
Exit
igm\knowledge base manager\lo View Log

To configure the Radia KB Manager automated import directories

1 Click **New** to add a Radia Knowledge Base Manager.

The New Knowledge Base – Configuration dialog box opens.

New Knowledge Base - Configuration	×
Knowledge Base Name:	
Data Source Name:: RadiaUsageManager	OK
User Name:	Cancel
Password:	

2 Enter the following information:

Knowledge Base Name:	Enter the Knowledge Base name. (Any name of your choice)
Data Source Name:	Enter the Data Source Name (DSN).
User Name:	Type a user ID that has owner authority for the database.
Password:	Type a valid password for the user ID.

Configuring Your Environment

- The Radia Knowledge Base administrator must supply a logon ID and password for the person who has rights to access the SQL database. This ID must have full access rights to the database objects including table and stored procedures. Enter the ID with these rights and its password.
- 3 Click OK.

When you are finished adding a Knowledge Base, create a task by clicking **New Task**.

Knowledge Base Manager - Add T	ask	×
Task Type:	Radia Usage Manager Collection Files 🗾 🗾	
Task Name:		
Import Directory:		Browse
After Import:	Archive	
	$\searrow$	
	N	
	OK Cancel	

- 4 From the Task Type drop-down list, select one of the following:
  - Radia Extensions for Windows Installer State Files
     Refer to the *Radia Extensions for Windows Installer Guide* for more information regarding this task type.
  - Radia Configuration Server Service-to-Package Extracts
     Refer to the *Radia Extensions for Windows Installer Guide* for more information regarding this task type.
  - Radia Usage Manager Collection Files
     Create a task of this type to define your automated import directory for usage files that are collected.
  - Radia Configuration Server Product-to-Application Rule
     Extracts

For future use.

Radia Usage Manager Purge Criteria
 Use this task to purge usage data from your database. You must define whether the purging will take place daily, monthly, or yearly. Recommended settings:

Daily: 31-62 days Monthly: -1 Yearly: -1

- Radia Patch Import
   Refer to the *Radia Patch Manager Guide* for more information regarding this task type.
- 5 The type of task you select will determine what information is required in the following text boxes. Depending on the task you select, some of these text boxes may not appear.

Task Name:	Type a name for the task, for example Collection Files.
Import Directory:	Enter the path for the directory from which files will be imported. Click <b>Browse</b> to navigate to it. For example: C:\novadigm\integrationserver\etc\usage \kb_mgr1_usage
After Import:	Select the action taken after import, Archive, or Delete. This option allows you to remove the files from the import directory immediately after they are imported.

- 6 Click **OK** and you are returned to the Radia Knowledge Base Manager Configuration window. It now displays the information you just entered.
- 7 Click **Save Configurations** to save the just entered configuration settings. Click **OK**.

Configuring Your Environment

ask Name	Directory	New Task
ollection Files	C:\Program Files\Novadigm\Radia Integration Serv	
sage Manager censed Vendor Application Rule Definitions	C:\temp\KB_Manager_MultiThread\RadiaExtract\	Delete Task
		Modify Task
		Save Configurations.
		Revert Configurations
		Exit
bal Settings		
Log Path: c:\program f	les\novadigm\knowledge base manager\lo View Log	

- 8 To complete the Radia Knowledge Base Manager configuration, edit the following text boxes located at the bottom of the Radia Knowledge Base Manager Configuration window:
  - Log Path (default is  $C: \setminus$ )

Default log path for AutoImport processing status information. All exceptions are logged as well as successful imports and *\Notify* file deletions after successful imports of Radia Service state files.



The log path must exist before starting the Radia Knowledge Base Manager service.

#### — Log Level

Select the level of logging from the drop-down list. Select **Errors Only**, **Errors/Other** (default) for specific information only, **Verbose** for all errors and messages, or **Debug** for debugging related messages only.

- Database Reconnect (msecs) (default is 5000)
   Number of milliseconds to wait between reconnect attempts to the SQL database server. Recommended: 60000.
- Import Directory Scan (msecs) (default is 5000)
   Number of milliseconds to wait between each check of the import directory for new files. Recommended: 60000.
- Click Save Configuration & Exit.



### Starting and Stopping the Radia Knowledge Base Manager

The Radia Knowledge Base Manager is controlled as a Windows service. The service name is RadKBMgr and it may be stopped and started through the Administrative Tools\Services options of the Control Panel.

### SQL Server Requirements for the Radia Knowledge Base Manager

To process Radia Knowledge Base requests, the Radia Knowledge Base Manager requires a SQL Server or Oracle logon ID. A user ID of any name can be configured (the default is **sa** for SQL Server or **Radia** for Oracle). This ID is used to define the DB\_OWNER for the Knowledge Base database with full permissions for administering the database. This ID is referred to as the AppLogin user ID.

## Adding the USAGE Domain

Pre-version 4.0 Radia Database users or in case the Usage Manager option is not enabled while installing Radia Configuration Server will need to import the USAGE domain into their Radia Database. To do this, import the latest class, instance, and resource files using the Radia tool ZEDMAMS.

The files for importing are located in the \RCS\_Database\_Classes\USAGE DOMAIN\ directory on your Radia Usage Manager media and are as follows:

Usage.xpc	Usage domain class
Usage.xpi	Usage domain instances
Usage.xpr	Usage domain resources

To import the class, instance and resource files

- 1 Stop the Radia Configuration Server Service
- 2 Copy the above mentioned files to root\Novadigm \ConfigurationServer\Bin folder
- 3 At the command prompt, navigate to the Root\Novadigm \ConfigurationServer\Bin folder and then execute the following commands: Zedmams

Configuring Your Environment

verb=import\_class,file=usage.xpc,preview=no,replace
=yes, continue=yes,duplicates=manage,commit\_changes=yes

Zedmams verb=import\_instance,file=usage.xpi,xpr=usage .xpr, preview=no,replace=yes,continue=yes,duplicates =mamange,commit changes=yes

Additional instructions for using this tool can be found on the HP OpenView support website

- 4 Copy all the .ico files in \RCS\_Database\_Classes\USAGE\_DOMAIN\ directory on your Radia Usage Manager media to the directory that contains the Radia System Explorer
- 5 Start the Radia Configuration Server Service.
- 6 Check in the Radia System Explorer for the USAGE domain.

# Summary

- Install and configure the required components to begin using the Radia Usage Manager.
- You must have an active Radia Integration Server available for processing requests to copy the application usage files.
- The Radia Usage Manager Administrator allows you to create rules that will enable you to select which data will be used to create your usage reports.
- When defining your Knowledge Base Database, make sure to select the proper scripts depending on the version of Oracle or SQL Server you are using.
- Pre-version 4.0 Radia users may need to install the USAGE domain manually.

Configuring Your Environment

# 3 Radia Usage Manager Client

# The USAGE Domain Defined

The Radia Usage Manager utilizes the USAGE domain within your Radia Database, enabling management of the Radia Usage Manager in the enterprise. The USAGE domain is comprised of classes that you use to create Radia Usage Manager services to distribute to your client computers. These services install the Radia Usage Manager client, which collects usage data based on your specifications. The next few sections describe the USAGE domain classes.

Use the Radia System Explorer to configure each class in the USAGE domain.

Radia System Explorer - [1:rcs001 - 1]			
	<b>a</b>		
atabase Tree View:	USAGE Domain Classes:		
Database	Class	Туре	
😤 LICENSE	Application (ZSERVICE)	USAGE.ZSERVICE Class	
PRIMARY	Application Packages (PACKAGE)	USAGE.PACKAGE Class	
🗄 🐨 ADMIN	Client Methods (CMETHOD)	USAGE.CMETHOD Class	
🗄 🖳 🔜 AUDIT	Collection (UMCOLLCT)	USAGE.UMCOLLCT Class	
🗄 – 🕂 NOVADIGM	Configuration (UMCONFIG)	USAGE.UMCONFIG Class	
E PATCH	Database (UMDBASE)	USAGE.UMDBASE Class	
🗄 🙀 POLICY	Destination Point (UMDESTPT)	USAGE.UMDESTPT Class	
E SOFTWARE	File Resources (FILE)	USAGE.FILE Class	
E WITH	File Root (FILEROOT)	USAGE.FILEROOT Class	
	Filter Criteria (UMFLTCRI)	USAGE.UMFLTCBI Class	
Application (ZSERVICE)	Filter Rule (UMFLTRUL)	USAGE.UMFLTBUL Class	
Application Packages (PACKAGE)	Filter Set (UMFLTSET)	USAGE.UMFLTSET Class	
Client Methods (CMETHOD)	Tinventory (UMINVENT)	USAGE.UMINVENT Class	
Collection (UMCOLLCT)	A Path (PATH)	USAGE.PATH Class	
	<b>Franceshi</b>	Sonde. Annoidee	
File Resources (FILE)			
Filter Criteria (UMFLTCRI)			
Filter Rule (UMFLTRUL)			
Iller Hale (GM ETTEE)			
Inventory (UMINVENT)			
Path (PATH)	1		
		4/7/2003 11:03/	

Figure 1 USAGE domain displayed in the Radia System Explorer

Table 1 USAGE domain cl	asses
-------------------------	-------

Class	Description
Application (ZSERVICE)	Contains the Radia Usage Manager services
Application Packages (PACKAGE)	Contains the Radia Usage Manager packages
Client Methods (CMETHOD)	Client methods used to process each instance

Class	Description
Collection (UMCOLLCT)	Controls the Radia Usage Manager collection options that represent the unique collection criteria with which the usage collection files on each computer are associated. A single computer may have multiple collections targeted, each associated with a unique data store. The collection file contents are sent to different collection points and ultimately to different SQL databases.
Configuration (UMCONFIG)	Controls the Radia Usage Manager installation options.
Database (UMDBASE)	Unique usage database name, which correlates to a backend SQL database.
Destination Point (UMDESTPT)	Location where usage data is stored.
File Resources (FILE)	File instances included within a package.
File Root (FILEROOT)	<ul> <li>Defines the base location of a file without any extended path information. Can be a drive, like C: or a well known folder location, like ProgramFiles folder.</li> <li>File Roots are only used for filtering the collection file content collected from the client in the Radia System Explorer.</li> </ul>
Filter Criteria (UMFLTCRI)	Defines usage filtering criteria.
Filter Rule (UMFLTRUL)	Connects to usage filtering criteria. The filter type determines whether it is an inclusion or exclusion Filter Rule, and its priority determines its importance when compared with other Filter Rules defined in a Filter Set. Refer to Filters on page 63 for more information.
Filter Set (UMFLTSET)	Connects to one or more Filter Rules. Filter Sets are in turn connected to collections in the UMCOLLCT class. Each UMCOLLCT class may then have specific filtering associated with its data collection.

Radia Usage Manager Client

Class	Description
Inventory (UMINVENT)	Defines default configuration criteria for the Radia Usage Manager inventory scan.
Path (PATH)	A unique path to one or more components.

### Significance of Collection Instances

Collection class instances, and their related filter class instances, establish the content that is uploaded to a specific SQL database from the device which the usage data is collected. Collection class instances define the databasespecific client collection properties as well as the destination location once the usage and inventory data has been aggregated on the client machine and is ready to be passed through the network for import into a specific SQL database.

# Configuring the Radia Usage Manager Client

The Radia Usage Manager client is installed through a Radia service. Connect this service to the appropriate client machines and then during the next client connect the Radia Usage Manager client is distributed.

The Application (ZSERVICE) class in the USAGE domain contains a service out of the box that requires minimal configuration. Use this service to define inventory and collection parameters and for distribution to your client computers.

Go to View $\rightarrow$ Options. Open the Instance Options tab and select **Both** and click **OK**.

Reopen the Radia System Explorer.

To configure the Radia Usage Manager client for distribution

1 Start the Radia System Explorer and double-click **PRIMARY**, then **USAGE**.

File Edit View Window Help			_ 8
(ABBX 🖻 II 🖳 🖽 📰 📶 👘			
atabase Tree View:	Application class Cli	ent Install - Enterprise Collection Instan	ce Attributes:
Database	Name	Attribute Description	Value
🚰 LICENSE	30 ZSTOP000	Expression Resolution Method	
PRIMARY	30 ZSTOP001	Expression Resolution Method - 0	
电- Cg ADMIN	30 ZSTOP002	Expression Resolution Method - 0	
🗄 🧟 AUDIT	30 ZSTOP999	Stop Unless Radia Connect	
E NOVADIGM	ZSVCNAME	Service Name/Description	Radia Usage Manager
E PATCH	ZSVCTTYP	Application Target Type [A/S]	S
	V ZSVCMO	Mandatory or Optional Service [M	0
	ZSVCCSTA	Service Status on Client (999)	999
E WIND	ZSVCPRI	Service Create Ordering [01-99]	
😑 📊 USAGE	ALWAYS	Usage Manager Package	USAGE.PACKAGE.RADIA
Application (ZSERVICE)     BASE_INSTANCE_	ALWAYS	Usage Configuration Connection	USAGE.UMCONFIG.ENT
	ALWAYS	Usage Inventory Connection	USAGE.UMINVENT.WEE
	LALWAYS_	Usage Collection Connection	USAGE.UMCOLLCT.ENT
Configuation - Entire Enterprise	ILC ALWAYS	Usage Collection Connection	
	NT ALWAYS	Usage Collection Connection	
Collection - Entire Enterprise	NT_ALWAYS_	Usage Collection Connection	
🕀 🖆 Client Install Only - No Collection	ALWAYS_	Usage Collection Connection	
🗄 🏪 Filter Test	ALWAYS_	Utility Resolution Method	
Application Packages (PACKAGE)	ZCREATE	Service Installation Method	
Client Methods (CMETHOD)	ZINIT	Service Initialization Method	
	BDELETE	Service Pre-Delete Method	
- 🜆 Configuration (UMCONFIG)	ZDELETE	Service Delete Method	
- 👩 Database (UMDBASE)			

2 Double-click to expand the **Application (ZSERVICE)** class.

This class contains several services you can use to distribute the Radia Usage Manager client as well as apply any collection filters. The service **Usage Mgr Client Install – Enterprise Collection** distributes the Radia Usage Manager client to your environment and contains a default collection instance.

The service contains four configurable connections:

Radia Usage Manager Client	$\label{eq:application} Application~(PACKAGE)~instance$
Configuration – Entire Enterprise	Configuration (UMCONFIG) instance
Inventory – Sundays at Midnight	Inventory (UMINVENT) instance
Collection – Entire Enterprise	Collection (UMCOLLCT) instance

3 Double-click **Configuration – Entire Enterprise**.

The Editing Instance dialog box opens.

4 Click **SERIAL** to edit the instance. Enter your Radia Usage Manager serial number.

Radia Usage Manager Client

🖥, Editing Primary Us	age Configuration Instance - La	st Update: - 03/14/03 14:53:24	? ×
Usage Monitor Serial N	lumber		
RA-xxx xxxx xxxxx xx	xxx xxxx xxxx		
Name	Attribute Description	Value	▲
<b>W</b> NAME	Friendly Name	Primary Usage Configuration	
V ENABLED	Enable Usage Monitoring [Y/N]	Y	
<b>W</b> ENAFOCUS	Enable Application Focus Time	Y	
🚺 ENA16BIT	Enable 16 Bit Module Support [	Y	
<b>W</b> HISTMNTH	Save Client History for nn Months	12	
V LOGCOUNT	Number of Daily Logs to Maintain	7	
V LOCLPATH	Local Path for Usage Monitor Fi	[NovadigmFolder]\Usage Manager	
V SERIAL	Usage Monitor Serial Number	RA-xxx xxxx xxxxxxx xxxx xxxx xxxx	<b>•</b>
•			
		ОК С	ancel Restore

- 5 Click **OK** to close the window.
- 6 Double-click Collection Entire Enterprise.
- 7 Double-click HTTP-RIS\_IP\_ADDR:Port\URL.

IS_IP_ADDR:Port\URL Instance - I	Last Update: - 04/03/03 16:32:03
n Point Target	
erver IP address:port_number>>/KB_Mg	gr1_Usage/
Attribute Description	Value
Friendly Name	HTTP - RIS_IP_ADDR:Port\URL
Collection Destination Point Tar	http://< <your address:port_number="" ip="" ris="" server="">&gt;/KB_Mgr1</your>
	1.51
	OK Cancel Restore
	n Point Target erver IP address:port_number>>/KB_Mg Attribute Description Friendly Name

8 Select COLLDEST and enter the url and port. For example: http://1.1.1.0:3466/KB\_Mgr1\_Usage/

The Radia KB Manager monitors this collection point and moves any files it finds into your SQL database for viewing. After the files are moved out of the collection point, they are saved in a subdirectory called Archive.

The default collection parameters are described in Table 2 on page 59.

Instance	Default Value	Description
NAME	Primary Collection Parameters	Friendly Name.
INTERVAL	Weekly	When the collection will take place. [Monthly/Weekly/Daily/None]
DAYOFMON	1	Day of the month collection will take place. [01-31]
DAYOFWK	1	Day of the week collection will take place [1=Sun] [0-7]
COLLHOUR	00	The hour of the collection. [00-23]
COLLMIN	00	The minute of the collection. [00-59]
ENABLED	Y	Whether or not collection is enabled.
DBASCONN	USAGE.UMDBASE.PRIMARY	Usage database connection.
DESTCONN		This is a connection to a predefined collection point. This is the location where files will be stored until the Radia Knowledge Base Manager moves them into your SQL database.
CMETHOD	CMETHOD.UMCOLLCT	The collection method.
FLTSET01		Filter Set connection.
FLTSET02		Filter Set connection.

 Table 2
 Default Collection Parameters (UMCOLLCT)

 $9 \quad {\rm Click} \; \textbf{OK} \; {\rm to} \; {\rm close} \; {\rm the} \; {\rm dialog} \; {\rm box}.$ 

10 Connect any Filter Sets you would like to include with your service by dragging the Filter Set instance onto the service name. For more information on creating and applying filters, see Filters on page 63.

Radia Usage Manager Client

x Bex E I I Bree 🖬 🔏			
abase Tree View:	Inventory class Inve	ntory - Sundays at Midnight Instance A	ttributes:
🗄 🚯 SOFTWARE 📃	Name	Attribute Description	Value
🗄 🚽 SYSTEM	<b>W</b> NAME	Friendly Name	Inventory - Sundays at Midnig
🗄 📊 USAGE	<b>W</b> INTERVAL	[Monthly/Weekly/Daily/Collect/N	Weekly
🖨 🚔 Application (ZSERVICE)	<b>V</b> DAYOFMON	Inventory Day of Month [01-31]	1
- de la companya de l	V DAYOFWK	Inventory Day of Week (1=Sun) [	1
😑 🖆 Client Install - Enterprise Collection	<b>W</b> INVNHOUR	Inventory Hour of Day [00-23]	00
- 🖑 Radia Usage Manager Client		Inventory Minute of Day [00-59]	00
- 🦗 Configuation - Entire Enterprise	V ENABLED	Inventory Enabled IY/N1	Y
🖨 🗑 Inventory - Sundays at Midnight	A CMETHOD	Inventory Collection Method	CMETHOD.UMINVENT
🚬 🛃 Usage Inventory Method	TA CHE HIOD	Inventory collection method	CMETHOD:OMINVENT
🕀 🏠 Collection - Entire Enterprise			
🕀 🚔 Client Install Only - No Collection			
🖬 🚔 Filter Test			
Client Methods (CMETHOD)			
🗈 📸 Collection (UMCOLLCT)			
Configuration (UMCONFIG)			
🧕 Database (UMDBASE)			
Destination Point (UMDESTPT)			
File Resources (FILE)			
🦉 File Root (FILEROOT)			
Filter Criteria (UMFLTCRI)			
- 🚳 Filter Set (UMFLTSET)			

If you want to adjust the inventory time, double-click Inventory –
 Sundays at Midnight. Table 3 below describes each inventory parameter.

Table 3	<b>Default Inventory Parameters (UMINVENT)</b>
---------	--

Instance	Default Value	Description
NAME	Default Inventory Parameters	Friendly Name
INTERVAL	Weekly	When each inventory will take place. [Monthly/ Weekly/ Daily/Collect/None]
DAYOFMON	1	The day of the month to begin the inventory. [0-31]
DAYOFWK	1	Day of the week each inventory will take place. [1-7] (1=Sunday).
INVNHOUR	00	The hour of the day at which the inventory will take place. [00-23]

Chapter 3

Instance	Default Value	Description		
INVNMIN	00	The minute at which the inventory will take place. [00-59]		
ENABLED	Y	Whether or not inventory is enabled.		
FSIGMODE	S	<ul> <li>Three levels of scanning depth for executables inventoried on each client device are available. The type of scan defined here can determine the amount of time a collection may take.</li> <li>S File Sizes Only. Faster, less comprehensive (default)</li> <li>H Entire Module Header. Slower, more comprehensive</li> <li>M Complete MD5 Signature. Slowest, most comprehensive</li> </ul>		
CMETHOD	CMETHOD.UMINVENT	The inventory method.		

These parameters can be adjusted to adhere to your specific needs. The default inventory will begin on the first of the month and repeat once a week every Sunday at midnight.

- 12 Connect the Radia Usage Manager service to the appropriate users or workgroups.
- 13 Open the System Explorer. Expand the PRIMARY, USAGE domain and go to Application (ZSERVICE). Select Usage Mgr client install – Enterprise collection and drag-and-drop it on default user under Policy\Users\Administrators.

### The Radia Usage Manager Client Installation using Radia Environment

### To install the Radia Client

Installation requirements, as well as instructions for installing the Radia Client, are documented in the *HP OpenView Application Manager Using* 

Radia Usage Manager Client

Radia Installation and Configuration Guide, and in the HP OpenView Software Manager Using Radia Installation and Configuration Guide.

To install Radia Usage Manager Client

- 1 Open Radia Software Manager, in the list of software displayed.
- 2 Select the Radia Usage Manager and right click.
- 3 Select **Install** from the shortcut menu to install the Radia Usage Manager Client.

	ftware Manager			(p)
	Name		1	nvent
100	Annual Annual Contractor			
	radia\software			
Home	E Demo Applicacions			
1				
12				
	000000			
1	🔁 🕄 🥥 🎯 🕄 🗊			
Preferences	Name	Status		
TELEVENCES	Amortize	Available	142	
	Drag & View	Available		
(3)	GS-CALC	Available		
	Radia Usage Manager		Size	3.06 N
	Kadia Osage Flanager		Compressed Size	1.91 M
100			Compressed Size	1.711
	Available			6
-	Redbox Organizer	Available		
0	Sales Information	Available		
9	StratusPad	Available		

For implementation details regarding non-Radia environments refer to Appendix A, Implementing the Radia Usage Manager in a Non-Radia Environment.



XHRX 🖬 II 🖳 🖽 🏢 📶 🗌			
tabase Tree View:	Users class WILLIA	M Instance Attributes:	
	▲ Name	Attribute Description	Value
🗄 🐙 POLICY	<b>W</b> UNAME	Name	Willam Carey
	ZCONFIG	Collect Hardware Info [Y/N]	Y
- 💏 Departments (DEPT)	ZSETMSGA	Send Message to Audit Resource	DAILY
- 🚑 PDACONFG (PDACONFG)	ZDLIMIT	Maximum Disk Space	0
- 🍰 Server Stagers (STAGER)	<b>V</b> USERID	Enterprise User Id	CareyW
Users (USER)	V ZTIMEO	Client Timeout (Seconds)	240
BASE_INSTANCE_	V ZTRACEL	Trace Log Level [0-999]	040
	V ZTRACE	Trace On or Off [Y/N]	N
	ZPRIORIT	Exec. Priority	000
	V ZSHOW	Display Status Indicator [Y/N]	N
- C Default	ALWAYS	Utility Method	
Client Install - Enterprise Collection	ALWAYS_	Member of	POLICY.WORKGRP.DEF.
Radia Usage Manager Client	ALWAYS_	Member of	USAGE.ZSERVICE.CLIEN
Configuation - Entire Enterprise	ALWAYS_	Member of	
Inventory - Sundays at Midnight	C_ALWAYS_	Member of	
Collection - Entire Enterprise	C_ALWAYS_	Member of	
Client Self Maintenance	IC_ALWAYS_	Member of	
- 😴 Workgroups (WORKGRP)	C_ALWAYS_	Member of	
E 🚯 SOFTWARE	C_ALWAYS_	Member of	
🕀 🐙 SYSTEM	C_ALWAYS_	Member of	
	LALWAYS_	Member of	NOVADIGM.ZSERVICE.C
🖨 🚔 Application (ZSERVICE)	<b>W</b> NAME	Friendly name	

During the next Client Connect to the Radia Configuration Server, the service will be installed, and based on your settings, collection will begin.

# **Filters**

By default, the Radia Usage Manager collects usage information for every executable installed on the client computer. To collect only specific executable information, filters can be defined and attached to the collection instance. Because all executable information is collected by default, the **Exclude All** filter rule must be included with any filters you use.

The USAGE domain contains classes associated with creating filters for your usage data. This enables you to collect specific information based on parameters you define. The filter related classes are:

- Filter Criteria
- Filter Rule
- Filter Set

Each of these classes contains configurable instances you can use to define your filter.

Radia Usage Manager Client

### Criteria, Rule, and Set

To help you define filter parameters, the Radia Usage Manager uses filter criteria, rules, and sets.

Criteria

Criteria are specific attributes that an application may contain, such as "member of the Microsoft family of applications."

• Rule

When multiple criteria are combined, they form a rule. A rule is a simple way of grouping criteria, making it easier to apply the same set of criteria to multiple services.

• Set

When multiple rules are grouped into one instance, a set is created. A set is the highest level of criteria collection containing multiple rules, which in turn may contain multiple criteria.

### Filter Criteria Class (UMFLTCRI)

Radia System Explorer - [1:rcs001 - 1]			
File Edit View Window Help			_ 2
( X BEX E I I BEE 🖩 👔			
atabase Tree View:	Filter Criteria (UMFLTCRI) Class I	nstances:	
🗄 – 📶 USAGE	▲ Name	Instance Name	Туре
🕀 🚽 🚔 Application (ZSERVICE)	Compag Corporation	COMPAQ_CORPORATION	USAGE.UMFLTCR
- 🐴 Application Packages (PACKAGE)	Creative Surround Mixer	MS_CREATIVE_SURROUND	USAGE.UMFLTCR
Client Methods (CMETHOD)	Oefault Filter Criteria Params	_BASE_INSTANCE_	USAGE.UMFLTCR
🗄 🏠 Collection (UMCOLLCT)	🔄 📀 InstallShield Corporation	INSTALLSHIELD	USAGE.UMFLTCR
- 🏨 Configuration (UMCONFIG)	McAfee VirusScan	MCAFEE VIRUS SCAN	USAGE.UMFLTCR
— 🧕 Database (UMDBASE)	Microsoft .NET Framework	MICROSOFT DOTNET FRA	USAGE.UMFLTCR
Destination Point (UMDESTPT)	Microsoft AudioHQ	MICROSOFT_AUDIOHQ	USAGE.UMFLTCF
File Resources (FILE)	Microsoft Cluster Server	MICROSOFT CLUSTER SE	USAGE.UMFLTCF
File Root (FILEROOT)	Microsoft Connection Mana.	. MICROSOFT_CONNECTION	USAGE.UMFLTCF
Erre Filter Criteria (UMFLTCRI)	Microsoft Data Access Com.		USAGE.UMFLTCF
Ompaq Corporation     Geative Surround Mixer	Microsoft DirectX	MICROSOFT_DIRECTX	USAGE.UMFLTCF
O Default Filter Criteria Params	Microsoft DTC	MICROSOFT DTC	USAGE.UMFLTCF
<ul> <li>Default File Citeria Farans</li> <li>InstallShield Corporation</li> </ul>	Microsoft Exchange	MICROSOFT EXCHANGE	USAGE.UMFLTCF
McAfee VirusScan	Microsoft FrontPage	MICROSOFT FRONTPAGE	USAGE.UMFLTCF
Microsoft .NET Framework	Microsoft IIS	MICROSOFT IIS	USAGE.UMFLTCF
Microsoft AudioHQ	Microsoft NetMeeting - Var 1	-	USAGE.UMFLTCF
Microsoft Cluster Server	Microsoft NetMeeting - Var 2		USAGE.UMFLTCF
Microsoft Connection Manager	Microsoft NetShow	MICROSOFT NETSHOW	USAGE.UMFLTCF
Microsoft Data Access Components	Microsoft ODBC	ODBC	USAGE.UMFLTCF
😌 Microsoft DirectX	Microsoft Office 2000	MICROSOFT OFFICE 2000	USAGE.UMFLTCF
Microsoft DTC	Microsoft Office 97	MICROSOFT OFFICE 97	USAGE.UMFLTCF
🐵 Microsoft Exchange	Microsoft Office XP	MICROSOFT OFFICE XP	USAGE.UMFLTCF
🐵 Microsoft FrontPage	Microsoft Outlook	MICROSOFT OUTLOOK	USAGE.UMFLTCR
😔 Microsoft IIS	Microsoft Schedule Plus	MICROSOFT_SCHEDULE_PL	USAGE.UMFLTCR
Microsoft NetMeeting - Var 1	Microsoft SQL Server	MICROSOFT_SQL_SERVER	USAGE.UMFLTCR
Microsoft NetMeeting - Var 2	Microsoft System Files	MICROSOFT_SYSTEM FOL	USAGE.UMFLTCR
- O Microsoft NetShow	<ul> <li>Microsoft Transaction Serve</li> </ul>		USAGE.UMFLTCR
Microsoft ODBC	Microsoft Visio	MICROSOFT VISIO	USAGE.UMFLTCR
Microsoft Office 2000		1	CONCELLON ET CH
Filter Criteria instance(s) displayed		4/7/2003	11:32 AM

Figure 2 Filter Criteria class (UMFLTCRI) pre-defined instances

The Filter Criteria class contains various instances that reflect vendorspecific applications. Use these to attach a filter criterion using one of the included applications. The instances include filter criteria for Compaq, McAfee, Microsoft, and InstallShield, as well as many others.

Radia Usage Manager Client

### Filter Rule Class (UMFLTRUL)

8 BEX 🖬 I I 🖳 🗄 🛛 🎬 🎆 🔏				
abase Tree View:	Filter Rule Class Insta	inces:		
SYSTEM	▲ Name		Instance Name	Type
USAGE	Default Filter Ru	e Parameters	BASE_INSTANCE_	USAGE.UMFLTF
🗄 🚔 Application	Excl - Microsoft	DS Files - 1	EXCL_MICROSOFT_OS_FILES_1	USAGE.UMFLT
BASE_INSTANCE_	Excl Windows 0	S Add-on Prods - 1	EXCL_WINDOWS_OS_ADD_ON_PRODS_1	USAGE.UMFLT
🗊 🚆 Usage Mgr Client Install - Enterprise Collection			EXCL_WINDOWS_OS_ADD_ON_PRODS_2	USAGE.UMFLT
🖮 🚔 Usage Mgr Client Install Only - No Collection	Exclude All		EXCLALL	USAGE.UMFLT
Application Packages	Exclude Microso	ft Svstern Folder	EXCL_MICROSOFT_SYSTEMFOLDER	USAGE.UMFLT
Client Methods	Exclude Microso		EXCL MICROSOFT WINDOWSFOLDER	USAGE.UMFLT
	Include All		INCLALL	USAGE.UMFLT
- A Configuration	Include MS Lice	nsed Apps - 1	MICROSOFT_LICENSED_APPS_1	USAGE.UMFLT
- j Database - 2010 Destination Point	Include MS Offic	e Products	MICROSOFT_OFFICE_PRODUCTS	USAGE.UMFLT
File Resources	Include MS Server	er Products	INCLUDE_MS_SERVER_PRODUCTS	USAGE.UMFLT
- Stie Root	Include Other Ve	endor Apps - 1	OTHER VENDOR APPLICATIONS 1	USAGE.UMFLT
Filter Criteria	Include Radia A	ops	INCLUDE_RADIA	USAGE.UMFLT
Filter Rule				
Default Filter Bule Parameters				
Excl - Microsoft OS Files - 1				
Excl Windows OS Add-on Prods - 1				
Excl Windows OS Add-on Prods - 2				
Exclude All				
🛞 Exclude Microsoft System Folder				
Exclude Microsoft WindowsFolder				
- 🛞 Include All				
- 🛞 Include MS Licensed Apps - 1				
Include MS Office Products				
Include Other Vendor Apps - 1				
Include Radia Apps     Month Set				
- 🚳 Filter Set				
- 🙀 Inventory - 🌗 Path				
tan	-			

### Figure 3 Filter Rule class (UMFLTRUL) pre-defined instances

The Filter Rule class contains pre-configured rules using common vendorspecific parameters. For example, Include MS Office Products will include all Microsoft Office applications, and Exclude Microsoft Windows will exclude all Microsoft Windows files.

This Filter Rule class connects to the usage filtering criteria. The filter type determines whether it is an inclusion or exclusion Filter Rule and its priority determines its importance when compared with other Filter Rules in a Filter Set (Zero is the lowest priority). In the event priorities are equal within a Filter Set, inclusion filters take precedence over exclusion filters.

If no criteria are specified for an inclusion filter, than all usage information is captured in the collection file. If no criteria are specified for an exclusion filter, then all usage is excluded.

Chapter 3



### Filter Set Class (UMFLTSET)

atabase Tree View:	Filter Set Class Instances:		
Database	Name	Instance Name	Type
	All Apps - Except Base OS Apps	ALL APPS EXCL_BASE_OS_APPS	USAGE.UMFLTS
	Concurrency - Radia Apps Only	CONCURR_INCL_RADIA_APPS_ONLY	USAGE.UMFLTS
	Default Filter Set Parameters	_BASE_INSTANCE_	USAGE.UMFLTS
🕀 🧖 AUDIT	Inventory Only - Incl. All Files	INVENTORY INCLUDE ALL FILES	USAGE.UMFLTS
ELIENT	Microsoft Licensed Applications	MICROSOFT_LICENSED_APPLICATIONS	USAGE.UMFLTS
🗄 📈 NOVADIGM	Wilcrosoft Licensed Applications     Wilcrosoft Licensed Applications	USAGE_INCLUDE_ALL_FILES	USAGE.UMFLTS
III- 😤 PATCH	usage - Include All Files	USAGE_INCLODE_ALL_FILES	USAGE.OMPLIS
🕀 😼 POLICY			
🕀 😤 REFWI			
🗄 🔞 SOFTWARE			
🗄 🗿 SYSTEM			
🖻 – 📶 USAGE			
- 🚔 Application			
- 🌆 Application Packages			
- 📇 Client Methods			
🎦 Collection			
- 🦺 Configuration			
- 🧑 Database			
- 🎲 Destination Point			
- 🗃 File Resources			
- 😁 File Root			
🐵 Filter Criteria			
- 🛞 Filter Rule			
🖃 🚥 Filter Set			
🚳 All Apps - Except Base OS Apps			
🚥 Concurrency - Radia Apps Only			
🍩 Default Filter Set Parameters			
🚥 Inventory Only - Incl. All Files			
🛄 🚥 Usage - Include All Files			
- 🗊 Inventory			

#### Figure 4 Filter Set class (UMFLTSET) pre-defined instances

A Filter Set is comprised of one, or a collection of, Filter Rules. The Filter Set class contains pre-configured Filter Sets you can use to collect or exclude vendor-specific information.

Once a Filter Set has been created, or you decide which existing Filter Set to use, connect it to a Collection class (UMCOLLCT) instance to enable the filter. Only Filter Sets may be connected to a collection class. All criteria associated with that Filter Set are then processed. By connecting the Filter Set to a Collection class instance, each data collection can then contain specific filtering.

67

Table 4Default filter set parameters

Instance	Default Value	Description
NAME	Default Filter Set Parameters	Filter Set Friendly Name

Radia Usage Manager Client

Instance	Default Value	Description
INCLUSAG	Yes	Determines whether or not to include usage data as well as inventory data in the collection.
CONCURR	No	Defines whether to collect concurrent usage data. See section Using Concurrency on page 76 for more information.
CMETHOD	CMETHOD.UMFLTSET	Client method used to process Filter Set class instances
FLTRUL##		Filter Rules connections

### **Using Filters**

68

Filters can be applied to Collection class instances. Use the existing Filter Set instances, or create your own using the filter classes provided. The following exercises explain how to apply a filter as well as how to create a new filter based on parameters you define.

### Filter Set Class Instances

The Filter Set class (UMFLTSET) contains a few default Filter Sets that can be used for generic data collections. Each class instance collects a specific type or set of data. Table 5 below describes each class instance in detail.

Table 5Filter set class (UMFLTSET) instances

Instance Name	Description
All Apps – Except Base OS Apps	Collects data for all installed applications with the exception of base operating system applications.
Concurrency – Incl Radia Apps	Collects concurrency data – default setting collects data for all Radia applications.

Instance Name	Description
Default Filter Set Parameters	Contains the default Filter Set instance values and is used to create custom Filter Sets.
Inventory Only – Incl All Files	Collects inventory data for installed applications - no usage data is collected.
Microsoft Licensed Applications	Collects data for Microsoft applications as defined in each Filter Criteria connection.
Usage – Include All Files	Collects all usage data.

### **Applying Filters**

Filters can be applied to Collection class instances by simply dragging the Filter Set instance onto the appropriate Collection class instance.

### To apply a filter to a Collection class

- 1 Start the Radia System Explorer and navigate to the USAGE domain.
- 2 Connect the appropriate Filter Set to the connection class you would like to apply the filter to.
- 3 Click **Copy** and accept the changes.

### **Creating Filters**

Creating a Filter is comprised of three basic steps:

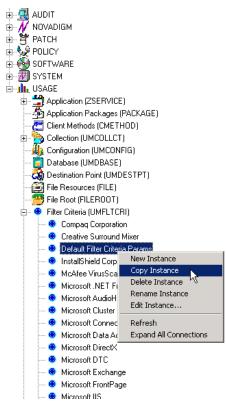
- 1 Create or select a Filter Criteria instance.
- 2 Create or select a Filter Rule instance and attach the Filter Criteria instance.
- 3 Create or select a Filter Set instance and attach the Filter Rule instance.

The following example demonstrates how to create a filter that will collect usage information for Adobe Acrobat.

Radia Usage Manager Client

#### To create a Filter Criteria instance

- 1 Start the Radia System Explorer and navigate to the USAGE domain.
- 2 Double-click Filter Criteria (UMFLTCRI).



3 To create a new instance right-click **Default Filter Criteria Params**, and from the shortcut menu select **Copy Instance**.

Chapter 3

Copy Instance				
Copy display name Default Filter Criteria Params To::				
Adobe Acrobat				
Copy instance name _BASE_INSTANCE_ To::				
ADOBE_ACROBAT				
OK Cancel				

- 4 Rename the new instance Adobe Acrobat, and then click **OK**.
- 5 In the tree view of the Radia System Explorer, double-click the newly created instance.

The Editing Instance dialog box opens.

🐂 Editing Adobe Ac	robat Instance - Last Update: - (	4/02/03 11:42:08			<u>?</u> ×
Company Name					
		[			
Name	Attribute Description	Value			<b>^</b>
V NAME	Friendly Name	Adobe Acrobat			
A ROOTCONN	File Root Connection				
V FILEPATH	File Path				
V FILENAME	File Name				
V COMPNAME	Company Name				
V PRODNAME	Product Name				
V PRODVER	Product Version				
V FILEDESC	File Description				-
•					
			OK	Cancel	Restore

6 Use the attributes defined in the following table to define your filter criteria

Table 6Filter criteria attributes

Attribute	Description
NAME	Friendly Name

Radia Usage Manager Client

Attribute	Description
ROOTCONN	Compares for applications that reside in any of the predefined shell folder names, such as ProgramFilesFolder, WindowsFolder, or SystemsFolder. These can be used to filter based on a well-known folder, such as TempFolder.
FILEPATH	Defines the suffix of the path name that is appended to the file root path. For example, this would contain the characters \Microsoft Office regardless if the installation for the Microsoft Office application was to the ProgramFilesFolder\Microsoft Office path or to the TempFilesFolder\Microsoft Office path.
FILENAME	The application file name executable, for example winword.exe.
COMPNAME	The vendor name defined in the executable's header.
PRODNAME	The product name defined in the executable's header.
PRODVER	The product version defined in the executable's header.
FILEDESC	The file description defined in the executable's header.
FILEVER	The internal file version defined in the executable's header.
ORIGNAME	The original file name defined in the executable's header. This string does not change if the file is renamed.
MD5HASH	The MD5 hash file signature that uniquely identifies the contents of the file. Any change to a file results in it being assigned a unique MD5 hash signature.
CMETHOD	The client method used to process Filter Criteria instances.

7 In the Editing Instance dialog box (see the figure above) double-click the **COMPNAME** attribute and in the text box provided and type **Adobe**.

- 8 Click the **PRODNAME** attribute and type **Acrobat**.
- 9 Click **OK** and save the changes.

You have successfully created a new Filter Criteria instance.

To create the Filter Rule instance

- 1 In the tree view of the Radia System Explorer, double-click Filter Rule (UMFLTRUL).
- 2 Right-click **Default Filter Rule Parameters.**
- 3 In the shortcut menu, select **Copy Instance**.

Copy Instance
Copy display name Default Filter Rule Parameters To::
Adobe Apps
Copy instance name _BASE_INSTANCE_ To::
ADOBE_APPS
OK Cancel

- 4 Rename the new Filter Rule instance Adobe Apps, and click **OK**.
- 5 In the Radia System Explorer window, connect the Filter Criteria instance you created, Adobe Acrobat, to the newly created Adobe Apps Filter Rule instance.

Radia Usage Manager Client

base Tree Verx    Renedy Corporation   RobotFELP	Name     NAME     V NAME     V TYPE     V PRIORITY	Apps Instance Altributes: Attribute Description Friendly Name Filter Type [Include/Exclude]	Value Adobe Apps	
PoboHELP     Sun Microsystems     Tered Micro Inc     Windows 2000 05     Windows 2000 05     Windows Inits Deflagmenter     Windows Initslier	V NAME V TYPE V PRIORITY	Friendly Name		
Sun Microsystems     Tered Nico Inc     Windows 2000 DS     Windows 2000 DS     Windows Disk Dehagmenter     Windows Installer	V TYPE V PRIORITY		Adobe Apps	
Trend Micro Inc     Windows 2000 0S     Windows Disk Defingmenter     Windows Initalier	PRIORITY	Effer Turne Brick de /Eurik de I		
Windows 2000 DS     Windows Disk Defragmenter     Windows Installer			Include	
Windows Disk Defragmenter     Windows Installer	1.0	Filter Rule Priority	0	
- 🖷 Windows Installer	CMETHOD	Filter Rule Client Method	CMETHOD.UMFLTRUL	
	FLTCRI01	Filter Criteria Connection	USAGE.UMFLTCRI.AD0BE_ACR0BAT	
- S Windows NT 0S	AFLTCRI02	Filter Criteria Connection		
	A FLTCRI03	Filter Criteria Connection		
-  Windows OS - Variation 1	A FLTCRI04	Filter Criteria Connection		
<ul> <li>Windows DS - Variation 2</li> <li>Windows DS - Variation 3</li> </ul>	A FLTCRI05	Filter Criteria Connection		
Windows US - Variation 3     Windows OS - Variation 4	A FLTCRIDG	Filter Criteria Connection		
Windows US - Variation 4     Windows Script Host	AFLTCRI07	Filter Criteria Connection		
<ul> <li>Windows Script Host</li> <li>WinZip</li> </ul>	A FLTCRIDS	Filter Criteria Connection		
(     Filter Rule (UMFLTRUL)	A FLTCRI09	Filter Criteria Connection		
- Adobe Apps	AFLTCRI10	Filter Criteria Connection		
Filter Rule Method	Critica Contraction			
Adobe Acrobat				
Default Filter Bule Parameters				
Excl - Microsoft OS Files - 1				
Excl Windows DS Add-on Prods - 1				
Excl Windows DS Add-on Prods - 2	1			
- O Exclude All				
— Exclude Microsoft System Folder				
<ul> <li>Exclude Microsoft WindowsFolder</li> </ul>				
- ( Include All				
— Include MS Licensed Apps - 1				
— Include MS Office Products				
— Include MS Server Products				
— Disclude Other Vendor Apps - 1				
Include Radia Apps				
Pilter Set (UMFLTSET)     Inventory (UMINVENT)				

- 6 Click **Copy** and accept the changes by clicking **Yes**, and then **OK**. The Filter Criteria instance is now connected to a Filter Rule instance.
- 7 In the list view of the Radia System Explorer (right pane), double-click the PRIORITY instance attribute and set the value to **1** to ensure this rule will be applied first. (Zero is the lowest possible priority as well as the default value. Setting this value to **1** ensures it will be applied before any default rules may be used.)

Editing Adobe Ap     Filter Rule Priority	ops Instance - Last Update: - 04,	/09/03 10:14:30	<u>? x</u>
Name	Attribute Description	Value	
V NAME	Friendly Name	Adobe Apps	
V TYPE	Filter Type [Include/Exclude]	Include	
V PRIORITY	Filter Rule Priority	1	
🚺 СМЕТНОО	Filter Rule Client Method	CMETHOD.UMFLTRUL	
A FLTCRI01	Filter Criteria Connection		
A FLTCRI02	Filter Criteria Connection		
A FLTCRI03	Filter Criteria Connection		
A FLTCRI04	Filter Criteria Connection		•
Ĩ.			
		OK Car	Restore

The Filter Rule instance is now complete.

Chapter 3

#### To create the Filter Set instance

- 1 In the Radia System Explorer window, double-click Filter Set (UMFLTSET).
- 2 Right-click Default Filter Set Parameters.
- 3 In the shortcut menu select, **Copy Instance**.

Copy Instance
Copy display name Default Filter Set Parameters To::
Adobe Licensed Applications
Copy instance name _BASE_INSTANCE_ To::
ADOBE_LICENSED_APPLICATIONS
OK Cancel

- 4 In the Copy Instance dialog box, rename the new Filter Set instance Adobe Licensed Applications.
- 5 Connect the Filter Rule instance you created earlier, Adobe Apps to the newly created Adobe Licensed Applications Filter Set instance.
- 6 Also connect the existing Filter Rule instance, Exclude All, to the newly created Filter Set instance. This ensures that only usage data for the specific executable defined in your criteria, Adobe Acrobat, will be collected.

By default the priority setting for this instance is 0, the lowest possible. By setting the priority for the Adobe Apps rule to 1 earlier, you have given priority to that Filter Rule instance, ensuring it will be applied first.

Radia Usage Manager Client

Ites001 - 1 Vabate Tree Veer	En children and and	icensed Applications Instance Attributes:		-
Windows OS - Variation 2	Name	Attribute Description	Value	
Windows DS - Variation 3     Windows DS - Variation 4	NAME NAME	Friendly Name	Adobe Licensed Applications	
<ul> <li>Windows US - Vanation 4</li> <li>Windows Script Host</li> </ul>	INCLUSAG	Include Usage Data [Yes/No]	Yes	
Windows Script Host	CONCURR	Collect Concurrency Data [Yes/No]	No	
WIN2P     Filter Rule (UMFLTRUL)	CMETHOD	Filter Set Client Method	CMETHOD.UMFLTSET	
Adobe Apos	FLTRUL01	Filter Rule Connection	USAGE.UMFLTRUL.AD0BE_APPS	
Default Filter Bule Parameters	FLTRUL02	Filter Rule Connection	USAGE.UMFLTRUL.EXCLALL	
Excl - Microsoft OS Files - 1	A FLTRUL03	Filter Rule Connection		
Excl Windows OS Add-on Prods - 1	A FLTRUL04	Filter Rule Connection		
Excl Windows OS Add-on Ptods - 2	A FLTRUL05	Filter Rule Connection		
- Exclude Al	A FLTRULOG	Filter Rule Connection		
Exclude Microsoft System Folder	A FLTRUL07	Filter Rule Connection		
Exclude Microsoft WindowsFolder	A FLTRUL08	Filter Bule Connection		
- include All	A FLTRUL09	Filter Rule Connection		
Include MS Licensed Apps - 1	DA FLTRUL10	Filter Rule Connection		
<ul> <li>Include MS Office Products</li> </ul>	AFLTRUL11	Filter Rule Connection		
— Include MS Server Products	AFLTRUL12	Filter Rule Connection		
— O Include Other Vendor Apps - 1	A FLTRUL13	Filter Rule Connection		
Include Radia Apps	AFLTRUL14	Filter Rule Connection		
Filter Set [UMFLTSET]	AFLTRUL15	Filter Rule Connection		
Adobe Licensed Applications	AFLTRUL16	Filter Rule Connection		
- 📇 Filter Set Method	AFLTRUL17	Filter Rule Connection		
- 💌 Adobe Apps	A FLTRUL18	Filter Rule Connection		
Exclude All	A FLTRUL19	Filter Rule Connection		
<ul> <li>All Apps - Except Base OS Apps</li> </ul>	A FLTRUL20	Filter Rule Connection		
<ul> <li>Concurrency - Novadigm Apps Only</li> </ul>	AFLTRUL21	Filter Rule Connection		
<ul> <li>Default Filter Set Parameters</li> </ul>	DAFLTRUL22	Filter Bule Connection		
- 1 Inventory Only - Incl. All Files	A FLTRUL23	Filter Rule Connection		
<ul> <li>Microsoft Licensed Applications</li> </ul>	DA FLTRUL24	Filter Rule Connection		
Usage - Include All Files	AFLTRUL25	Filter Rule Connection		

The Filter Set instance is complete. You are now ready to apply the filter to a collection instance. See the section Applying Filters on page 69 for more information.

## Using Concurrency

Data usage collection is available either on a daily basis or on a more specific basis using concurrency. Concurrent data collection is enabled at the Filter Set level (UMFLTSET) in the CONCURR instance attribute.



Radia System Explorer - [1:rcs001 - 1] File Edit View Window Help				 6
i 🗴 🖻 🖬 🖬 🖬 🖬 🖬 📶 🚺				
tabase Tree View:		Filter Set class All A	pps - Except Base OS Apps Instance A	.ttributes:
		Name	Attribute Description	Value
🖶 😫 OS		V NAME	Friendly Name	All Apps - Except Base OS Apps
te⊢ 👌 Patch		V INCLUSAG	Include Usage Data [Yes/No]	Yes
🖻 👷 POLICY		V CONCURR	Collect Concurrency Data [Yes/No]	No
🗄 🚱 SOFTWARE		14 СМЕТНОО	Filter Set Client Method	CMETHOD.UMFLTSET
🗄 🕎 SYSTEM		IA FLTRUL01	Filter Rule Connection	USAGE.UMFLTRUL.INCLALL
⊡- <u>, III.</u> USAGE		FLTRUL02	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_MIC
Application (ZSERVICE)		IA FLTRUL03	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_WIN
		FLTRUL04	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_WIN
Client Methods (CMETHOD)		A FLTRUL05	Filter Rule Connection	
Collection (UMCOLLCT)		A FLTRUL06	Filter Rule Connection	
		A FLTRUL07	Filter Rule Connection	
- Calabase (CMPDASE)		A FLTRUL08	Filter Rule Connection	
File Resources (FILE)		A FLTRUL09	Filter Rule Connection	
File Root (FILEROOT)		A FLTRUL10	Filter Rule Connection	
Filter Criteria (UMFLTCRI)		AFLTRUL11	Filter Rule Connection	
Filter Rule (UMFLTRUL)		A FLTRUL12	Filter Rule Connection	
Filter Set (UMFLTSET)		A FLTRUL13	Filter Rule Connection	
🗄 🚥 🚳 All Apps - Except Base OS Apps		A FLTRUL14	Filter Rule Connection	
Filter Set Method		A FLTRUL15	Filter Rule Connection	
- () Include All		A FLTRUL16	Filter Rule Connection	
Excl - Microsoft OS Files - 1		AFLTRUL17	Filter Rule Connection	
— excl Windows OS Add-on Prods - 1		П <sub>А</sub> СІ ТОІ ІІ 10	Eiltor Pula Connection	
Ilter Set CLASS All Apps - Except Base OS Apps attribute(s) displayed	-	<u>     </u>		22/2003 2:49 PM

To enable concurrency usage data collection

- 1 Navigate to an existing Filter Set instance (see the previous section for information about creating Filter Sets instances).
- 2 Double-click the **CONCURR** instance attribute.

No Yes N		
No k Name	Attribute Description	Value
V NAME	Friendly Name	All Apps - Except Base OS Apps
🕖 INCLUSAG	Include Usage Data [Yes/No]	Yes
🗸 CONCURR	Collect Concurrency Data [Yes/	No
А СМЕТНОД	Filter Set Client Method	CMETHOD.UMFLTSET
FLTRUL01	Filter Rule Connection	USAGE.UMFLTRUL.INCLALL
FLTRUL02	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_MICROSOFT_OS_FILES_1
FLTRUL03	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_WINDOWS_OS_ADD_ON_PRO
FLTRUL04	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_WINDOWS_OS_ADD_ON_PRO

3 From the drop-down list select **Yes**, and then click **OK**. Click **Yes** to save your changes.

Radia Usage Manager Client

(File Edit View Window Help (  X Par Par X San I I Par San Mar			6	1>
atabase Tree View:	Filter Set class All Ap	pps - Except Base OS Apps Instance A	ttributes:	_
E- NOVADIGM	▲ Name	Attribute Description	Value	
⊕- 😫 os	<b>W</b> NAME	Friendly Name	All Apps - Except Base OS Apps	
E B PATCH	<b>W</b> INCLUSAG	Include Usage Data [Yes/No]	Yes	
🖶 🁷 POLICY	CONCURR N	Collect Concurrency Data [Yes/No]	Yes	
🗄 🔂 SOFTWARE	🛯 📠 сметнор 🗟	Filter Set Client Method	CMETHOD.UMFLTSET	
🗄 🗱 SYSTEM	FLTRUL01	Filter Rule Connection	USAGE.UMFLTRUL.INCLALL	
	FLTRUL02	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_MIC	
Application (ZSERVICE)	FLTRUL03	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_WIN	
Application Packages (PACKAGE)	FLTRUL04	Filter Rule Connection	USAGE.UMFLTRUL.EXCL_WIN	
Client Methods (CMETHOD)	A FLTRUL05	Filter Rule Connection	_	
- 🤭 Collection (UMCOLLCT)	A FLTRUL06	Filter Rule Connection		
Database (UMDBASE)	A FLTRUL07	Filter Rule Connection		
Destination Point (UMDESTPT)	A FLTRUL08	Filter Rule Connection		
- B File Resources (FILE)	A FLTRUL09	Filter Rule Connection		
File Root (FILEROOT)	A FLTRUL10	Filter Rule Connection		
<ul> <li>Filter Criteria (UMFLTCRI)</li> </ul>	A FLTRUL11	Filter Rule Connection		
Filter Rule (UMFLTRUL)	A FLTRUL12	Filter Rule Connection		1
	A FLTRUL13	Filter Rule Connection		
- 🐵 All Apps - Except Base OS Apps	<b>NA</b> FLTRUL14	Filter Rule Connection		
Filter Set Method	A FLTRUL15	Filter Rule Connection		
	<b>ÚA</b> FLTRUL16	Filter Bule Connection		
- 🖲 Excl - Microsoft OS Files - 1	A FLTRUL17	Filter Rule Connection		
🙆 Excl Windows OS Add-on Prods - 1	N + CI TOI II 10	Eilter Pule Connection		
Excl Windows OS Add-on Prods - 2  Filter Set CLASS All Apps - Except Base OS Apps attribute(s) displayed			22/2003 2:54 PM	1

Concurrency usage data collection has been enabled. Concurrent usage data will now be collected for the appropriate applications in fifteenminute intervals, by default.

Δ

Concurrent usage data collection generates a large amount of data. Make sure you have enough available resources before you begin collecting this type of data.

## Initiating Inventory and Usage Collections

The executables, usdbinvn.exe and usdbcoll.exe can be used to initiate the collection of inventory and usage data respectively. After a default installation, these files are located in the \Program Files\Novadigm\Application Extensions\Bin\ folder.

### Initiating Inventory Data Collection

The executable usdbinvn.exe, collects current inventory data on a target machine. Run this executable to force inventory collection for any machine

Chapter 3



with the Radia Usage Manager Client installed. No parameters are required. The inventory information is stored within the <code>history.usdbase</code> file, on the local machine at the root of the <code>\Usage Manager\</code> directory.

#### Configuring Usage Data Collection

The executable, usdbcoll.exe, is responsible for configuring the Radia Usage Manager data collection environment on the client device.

#### Defining a Database Collection Point

A database definition contains the information required to send the collected usage data to a specific collection point in the backend infrastructure. It has a unique name and associated parameters.

Database entries can be configured in the Radia Database in the USAGE domain. Default database and associated configuration parameters are shipped with the Radia Usage Manager. To manually define a database collection point, run the following command:

USDBCOLL.EXE /i DatabaseName=SQL\_database\_name

The /i parameter indicates an install database operation.

#### Initiating a Usage Data Collection Request

Execute the usdbcoll.exe module to initiate a data collection request. It can be launched by the Radia Usage Manager's internal scheduler, by a Radia Service or Notify request, or otherwise. Any filtering is applied during the collection process.

To launch a collection, run the following command for the specific database name defined in the command line:

USDBCOLL.EXE DatabaseName=SQL\_database\_name

#### Initiating a Usage Data Re-collection Request

Once data has been collected, it is not sent to the server again during a normal collection request.

Radia Usage Manager Client



Consider the consequences before recollecting usage data. Recollection may result in duplicate data or a corrupted SQL database if not done within strict guidelines and without the consent of HP Technical Support.

To initiate a re-collection of data (data already sent to the server), execute the usdbcoll.exe module using the following command line options:

USDBCOLL.EXE DatabaseName=SQL database name, RecollectMode=3

See Table 6 on page 143, for a description of the USDBCOLL.EXE parameter values.

Parameter	Description
DatabaseName=Uniq ueSQLDatabaseName	Defines a unique SQL database name for collection purposes.
RecollectMode=Value	Defines the type of data to be re-collected. Value can be 1, 2, or 3 as defined below.
	1 – <b>Signatures</b> - all file signature data is re- collected for all files that meet the collection filter. This includes the data for the FileSignatures and FileSignatureProperties tables.
	2- <b>Files</b> - all Windows file data is recollected for all files that meet the collection filter. This includes all of the data collected in Signature mode as well as data for the WindowsFiles and WindowsFileInstances tables.
	3 – <b>Usage</b> - all Windows file usage data is re- collected for all files that meet the collection filter. This includes all of the data collected in File mode as well as data for the WindowsFileUsage table.

 Table 7
 USDBCOLL.EXE Command Line Parameters



## **Enabling Privacy**

The Radia Usage Manager allows for the obfuscation of certain data attributes in order to ensure privacy, if required. The following information can remain undisclosed:

- **User Name** The user name is reported as [AnyUser].
- **Computer Name** The computer name is reported as a random set of alphanumeric values.
- Domain Name

The domain name is reported as a random set of alphanumeric values.

• Usage Times

The executable file usage times and launch counts are all reported as zero values.

#### Database Tree View Configuration class Default Configuration Parameters Instance Attributes Attribute Description Value \* Nar Udrabase Princense PRIMARY V NAME Friendly Name Default Configuration Parameters ENABLED Enable Usage Monitoring [Y/N] ENAFOCUS Enable Application Focus Time (Y/N) Enable 16 Bit Module Support [Y/N] Ė ENA16BIT HISTMNTH Save Client History for nn Months LOGCOUNT Number of Daily Logs to Maintair LOCLPATH Local Path for Usage Monitor Files Usage Monitor Serial Number [NovadigmFolder]\Usage Manager SERIAL BESUSEB Obfuscate User Name [Y/N] N OBFSCOMF Obfuscate Computer Name [Y/N] DBFSDOMN Obfuscate Domain Name [Y/N] OBFSUSAG Obfuscate Usage Times [Y/N] 🛃 СМЕТНОО Configuration Client Method CMETHOD.UMCONFIG Collection (UMCOLLCT) 攝 Configuration (UMCONFIG) Configuration-Entire Enterprise Database (UMDBASE) File Resources (FILE) File Root (FILEROOT) Filer Criteria (UMFLTCRI) Filter Bule (LIMELTBUL) Filter Set (UMFLTSET) Inventory (UMINVENT) Control (UMINVENT) Control (University Parameters Control (University Parameters) Control (University Param Tinventory - Sundays at Midnight Path (PATH) -11/20/2003 9:37 AM (UMCONFIG)\Default Configuration Parameters

#### Figure 5 UMCONFIG attributes related to obfuscation

• Four attributes in the UMCONFIG class directly relate to this information. Set these values to Y to hide the related data.

Radia Usage Manager Client

Attribute	Description			
OBFSUSER	Set this value to Y to obfuscate user name data.			
OBFSCOMP	Set this value to Y to obfuscate computer name data.			
OBFSDOMN	Set this value to Y to obfuscate domain name data.			
OBFSUSAG	Set this value to Y to obfuscate user usage time data.			

 Table 8
 Obfuscation attributes of the UMCONFIG class

## Summary

- Radia contains a Radia Usage Manager service out of the box that requires minimal configuration.
- Use the existing services to distribute the Radia Usage Manager client.
- Use the filter-specific classes to create filters.
- Attach Filters Sets instances to Collection instances.
- Concurrency usage data collection is turned on at the Filter Set level.
- The UMCONFIG class contains specific attributes that will allow you to maintain privacy within your usage data.
- The executables, usdbcoll.exe and usdbinvn.exe collect usage and inventory data, respectively.

Radia Usage Manager Client

Chapter 3

# 4 Generating Usage Reports

## Accessing the Radia Usage Manager Reports

The Radia Usage Manager reports can be accessed through the Radia Management Portal or by using a Web browser to navigate to the location where it was installed in your enterprise.

To access the Radia Usage Manager reports using a Web browser

 Open a Web browser and type the location where you installed the Radia Usage Manager, for example, http://Radia Integration Server: 3466.
 The Radia Usage Manager can be accessed through either the Radia Integration Server or the Radia Management Portal. The address you enter here should reflect whichever Radia component you are currently

using.

2 Click the **USAGE** tab to access the Radia Usage Manager reports.

## **Creating Usage Reports**

Use the Radia Usage Manager to generate reports based on the data you collected and made available in your SQL database. There are two main categories, Application Usage and Operational Reports, and several different report types within each category.

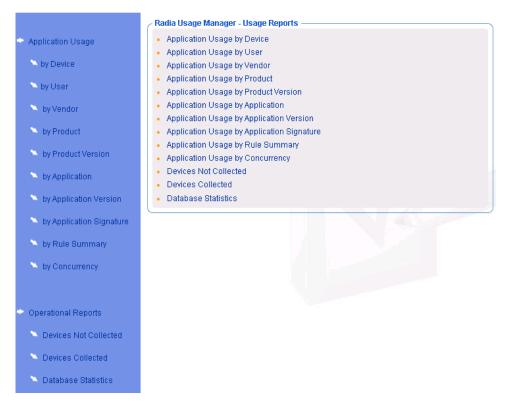


Figure 1 Application usage reports main page

Click a report name to bring you to the summary report page of your choice. Each summary page is described in detail in later sections.

We suggest you determine what you would like to report on and use the report generator to create your own customized reports. Each page offers different text boxes to customize the information that is searched for and displayed. In these text boxes, type the complete name, or the beginning of a name, to customize your reports (e.g., on the by Device page type w% in the Domain text box to return all domains beginning with a "w"). When you are

finished filling in the values, click **Submit Request**. The information is displayed beneath the search criteria section in table format.

	_ Device -						
Application Usage	Domain	:					
🛰 by Device	Device						
🋸 by User	Platform	: Submit R	aquest				
🌭 by Vendor			equest	5			
🛸 by Product	Navigate	To:		•			
🛸 by Product Version	103613						
🛸 by Application	Devices - Device	Platform	Service Pack	Domain	Major Version	Minor Version	Build Numbe
🛸 by Application Version	Device001	Windows NT	Service Pack 6		4	0	1381
	Device002	Windows 2000	Service Pack 2		5	0	2195
🔌 by Application Signature	Device003	Windows 2000	Service Pack 2		5	0	2195
🛸 by Rule Summary		Windows 2000	Service Pack 2		5	0	2195
🛸 by Concurrency			Service Pack 2		5	0	2195
	Device006	Windows 2000	Service Pack 2		5	0	2195
	Device007	Windows 2000	Service Pack 2		5	0	2195
Operational Reports	Device008	Windows 2000	Service Pack 2		5	0	2195
Devices Not Collected	Device009	Windows 2000	Service Pack 2		5	0	2195
Devices Collected			Service Pack 2		5	0	2195
	Device011		Service Pack 2		5	0	2195
🔌 Database Statistics		Windows 2000	Service Pack 2		5	0	2195

Figure 2 Summary data displayed

Each search criteria text box in the Device group box is optional. Leaving a text box blank and clicking **Submit Request** will return all occurrences.

The data displayed in each table is customizable. Click any column heading to sort the data or click any individual record to find out more information about that specific application, device, user, or any of the other available choices.

## Creating Application Usage Reports

Application Usage Reports offer an extensive and customizable tool for displaying reports. Application Usage Reports allow you to query your Radia

Generating Usage Reports

Usage database and return an informative and interactive report based on, among other things, application, product, device, and user.

Some reports offer the options to select, include, or exclude group rules. Group rules are created and maintained by the Radia Usage Manager Rule Editor. Each item in the drop-down lists for Include Rule and Exclude Rule is prefixed by a code indicating the type of rule.

• (C) Criteria

Lowest level search. Elements of a Criteria are ANDed together during the search.

• (R) Rule

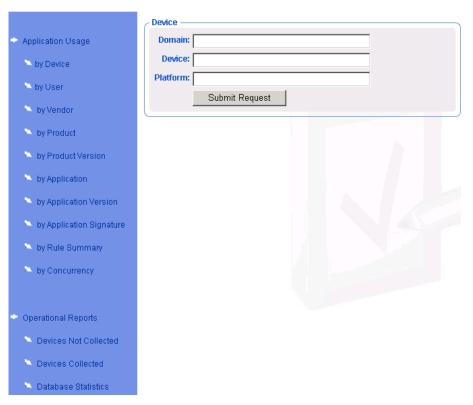
A group of chosen criteria. Criteria in a Rule are ORed together during the search.

- (RS) RuleSet A group of Rules. Rules in a RuleSet are ORed together during the search.
- (RSG) RuleSetGroup A group of RuleSets. RuleSets in a RuleSetGroup are ORed together during the search.

#### By Device

Select **by Device** to generate a report based on individual device descriptions, locations, or even operating systems.





#### Figure 3 Application usage by device page

Three options are available when you choose to display the information by device:

- **Domain** Type the name of the domain you want to display.
- **Device** Type the individual device name you want to report on.
- **Platform** Enter the operating system name for which you would like to see reports.

Remember, entering just the beginning of a value in any text box followed by % will return all appropriate occurrences. For example, entering **Win**% in the Platform text box could possibly return, Windows 9x or Windows NT.

#### By User

Select by User to generate a report based on individual user information.

Generating Usage Reports

#### Figure 4 Application usage by user

	User
Application Usage	User:
🛰 by Device	Domain:
🛰 by User	Device: Submit Request
🋸 by Vendor	
🏷 by Product	
🏷 by Product Version	
🛸 by Application	
🛸 by Application Version	
🛸 by Application Signature	
🛸 by Rule Summary	
🛸 by Concurrency	
<ul> <li>Operational Reports</li> </ul>	
🛸 Devices Not Collected	
🛸 Devices Collected	
🔌 Database Statistics	

Three options are available when you choose to display the information by user:

- **User** Type the name of the user for whom you want to display information.
- **Domain** Type the name of any domain containing the machine that the individual user may have used.
- **Device** Enter the specific device name for which you want to see user information.

To return all collected data for any user beginning with the letter b, type **b**% in the User text box and click **Submit Request**. Any user fitting that criterion will be returned, such as Barry, Brenda, B1295, bpL200, and so on.

#### By Vendor

Select by Vendor to generate a report based on specific vendor details.

Chapter 4

	✓ Vendor ————————————————————————————————————	
Application Usage	Report Type: Used applications	
by Device	Include Rule: (ALL)	•
by Device	Exclude Rule: (NONE)	•
🏊 by User	Application Install State: Must be currently installed	
🛸 by Vendor	Search Database For: Vendor names 💽 Search Clear	
🛸 by Product	Vendor Name:	
by Product Version	Product Name:	
S by Product version	Product Version:	
🛸 by Application	Application Exe Name:	
🛸 by Application Version	Application Version:	
🛸 by Application Signature	Application Description:	
by Rule Summary	Domain Name:	
	Device Name:	
🔪 by Concurrency	User Name:	
	Interval Data Type: Monthly	
Operational Reports	Start Date: 1 💌 2003 💌	
Devices Not Collected	End Date: 3 💌 2004 💌	
	Show Usage Hours: No	
Devices Collected	Show Database Totals: No	
🛸 Database Statistics	Submit Request	

#### Figure 5 Application usage by vendor

The following options are available when generating vendor reports. Values are not required for every option. Leaving all options blank will return all information in your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Report Type** From the drop-down list, select the type of vendor report you want to see. This includes used and unused applications as well as application inventory information.
- **Include Rule** From the drop-down list, select an Include Rule, or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule, or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Search Database For From the drop-down list, select a category and click Search to return a report of every related item. Then click any returned values to automatically fill in the current search criteria text boxes with the related information. Click **Clear** to reset the list.

Generating Usage Reports

- Vendor Name Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- Product Version Enter a product version.
- Application Exe Name Type a specific application executable name.
- Application Version Enter a specific application version.
- Application Description Enter an application description.
- **Domain Name** Type the name of a domain you want to display.
- **Device Name** Type the individual device name you want to report on.
- **User Name** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.
- Show Usage Hours Select whether or not to show Usage hours in the report.
- **Show Database Totals** Select whether or not to display a database totals report along with your generated usage report.

#### **By Product**

Select by Product to generate a report based on specific product details.

	Product	_
Application Usage	Report Type: Used applications	
🛰 by Device	Include Rule: (ALL)	·
	Exclude Rule: (NONE)	•
🛰 by User	Application Install State: Must be currently installed	
🛸 by Vendor	Search Database For: Vendor names  Search Clear	
by Product	Vendor Name:	
Solution by Product Version	Product Name:	
	Product Version:	
🛸 by Application	Application Exe Name:	
🛸 by Application Version	Application Version:	
by Application Signature	Application Description:	
	Domain Name:	
🔪 by Rule Summary	Device Name:	
🔌 by Concurrency	User Name:	
	Interval Data Type: Monthly	
Operational Reports	Start Date: 1 V 2003 V	
	End Date: 3 V 2004 V	
Devices Not Collected	Show Usage Hours: No	
🛸 Devices Collected	Show Database Totals: No	
🔌 Database Statistics	Submit Request	

#### Figure 6 Application usage by product

The following options are available when generating product reports. Values are not required for every option. Leaving all options blank will return all information in your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Report Type** From the drop-down list, select the type of product report you want to see. This includes used and unused applications as well as application inventory information.
- **Include Rule** From the drop-down list, select an Include Rule or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Search Database For From the drop-down list, select a category and click Search to return a report of every related item. Then click any returned values to automatically fill in the current search criteria text boxes with the related information. Click **Clear** to reset the list.

Generating Usage Reports

- Vendor Name Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- Product Version Enter a product version.
- Application Exe Name Type a specific application executable name.
- Application Version Enter a specific application version.
- Application Description Enter an application description.
- **Domain Name** Type the name of a domain you want to display.
- **Device Name** Type the individual device name you want to report on.
- **User Name** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.
- Show Usage Hours Select whether or not to show Usage hours in the report.
- **Show Database Totals** Select whether or not to display a database totals report along with your generated usage report.

#### **By Product Version**

Select by Product Version for reports based on product version information.

	Product Version ————————————————————————————————————		
Application Usage	Report Type:	Used applications	
Shy Device	Include Rule:	(ALL)	•
	Exclude Rule:	(NONE)	•
🔍 by User	Application Install State:	Must be currently installed	
🛸 by Vendor	Search Database For:	Vendor names	Search Clear
🔍 by Product	Vendor Name:		
- In Decident Vention	Product Name:		
by Product Version	Product Version:		
🛸 by Application	Application Exe Name:		
🔌 by Application Version	Application Version:		
🛸 by Application Signature	Application Description:		
🔍 by Rule Summary	Domain Name:		
	Device Name:		
by Concurrency	User Name:		
	Interval Data Type:	Monthly	
Operational Reports	Start Date:		
Devices Not Collected	End Date:	3 🔽 2004 💌	
	Show Usage Hours:	No	
Devices Collected	Show Database Totals:	No	
🛸 Database Statistics		Submit Request	

Figure 7 Application usage by product version

The following options are available when generating product version reports. Values are not required for every option. Leaving all options blank will return all information within your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Report Type** From the drop-down list, select the type of product version report you want to see. This includes used and unused applications as well as application inventory information.
- **Include Rule** From the drop-down list, select an Include Rule or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Search Database For From the drop-down list, select a category and click Search to return a report of every related item. Then click any returned values to automatically fill in the current search criteria text boxes with the related information. Click **Clear** to reset the list.

Generating Usage Reports

- Vendor Name Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- Product Version Enter a product version.
- Application Exe Name Type a specific application executable name.
- Application Version Enter a specific application version.
- Application Description Enter an application description.
- **Domain Name** Type the name of a domain you want to display.
- **Device Name** Type the individual device name you want to report on.
- **User Name** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.
- Show Usage Hours Select whether or not to show Usage hours in the report.
- **Show Database Totals** Select whether or not to display a database totals report along with your generated usage report.

#### By Application

Select **by Application** to generate a report based on the individual applications within your database.

	Application
Application Usage	Report Type: Used applications
by Device	Include Rule: (ALL)
	Exclude Rule: (NONE)
🛰 by User	Application Install State: Must be currently installed
🛸 by Vendor	Search Database For: Vendor names 💽 Search Clear
🔍 by Product	Vendor Name:
by Product Version	Product Name:
	Product Version:
by Application	Application Exe Name:
🛸 by Application Version	Application Version:
🛸 by Application Signature	Application Description:
by Rule Summary	Domain Name:
	Device Name:
by Concurrency	User Name:
	Interval Data Type: Monthly
Operational Reports	Start Date: 1 💌 2003 💌
Devices Not Collected	End Date: 3 💌 2004 💌
	Show Database Totals: No
Devices Collected	Submit Request
🔌 Database Statistics	

Figure 8 Application usage by application

The following options are available when generating application reports. Values are not required for every option. Leaving all options blank will return all information within your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Report Type** From the drop-down list, select the type of application report you want to see. This includes used and unused applications as well as application inventory information.
- **Include Rule** From the drop-down list, select an Include Rule or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Search Database For From the drop-down list, select a category and click Search to return a report of every related item. Then click any returned values to automatically fill in the current search criteria text boxes with the related information. Click **Clear** to reset the list.

Generating Usage Reports

- Vendor Name Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- Product Version Enter a product version.
- Application Exe Name Type a specific application executable name.
- Application Version Enter a specific application version.
- Application Description Enter an application description.
- **Domain Name** Type the name of a domain you want to display.
- **Device Name** Type the individual device name you want to report on.
- **User Name** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.
- Show Usage Hours Select whether or not to show Usage hours in the report.
- **Show Database Totals** Select whether or not to display a database totals report along with your generated usage report.

#### **By Application Version**

Select **by Application Version** to generate a report based on the version of individual applications within your database.

	CApplication Version
Application Usage	Report Type: Used applications
Solution by Device	Include Rule: (ALL)
	Exclude Rule: (NONE)
🛰 by User	Application Install State: Must be currently installed
🛸 by Vendor	Search Database For: Vendor names Search Clear
🔌 by Product	Vendor Name:
🔌 by Product Version	Product Name:
	Product Version:
🔌 by Application	Application Exe Name:
🛸 by Application Version	Application Version:
🛸 by Application Signature	Application Description:
by Rule Summary	Domain Name:
	Device Name:
by Concurrency	User Name:
	Interval Data Type: Monthly
Operational Reports	Start Date: 1 💌 2003 💌
Devices Not Collected	End Date: 3 💌 2004 💌
	Show Usage Hours: No
Devices Collected	Show Database Totals: No
🛸 Database Statistics	Submit Request

#### Figure 9 Application usage by application version

The following options are available when generating application version reports. Values are not required for every option. Leaving all options blank will return all information within your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Report Type** From the drop-down list, select the type of application version report you want to see. This includes used and unused applications as well as application inventory information.
- **Include Rule** From the drop-down list, select an Include Rule or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Search Database For From the drop-down list, select a category and click Search to return a report of every related item. Then click any returned values to automatically fill in the current search criteria text boxes with the related information. Click **Clear** to reset the list.

Generating Usage Reports

- Vendor Name Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- **Product Version** Enter a product version.
- Application Exe Name Type a specific application executable name.
- Application Version Enter a specific application version.
- Application Description Enter an application description.
- **Domain Name** Type the name of a domain you want to display.
- **Device Name** Type the individual device name you want to report on.
- **User Name** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.
- Show Usage Hours Select whether or not to show Usage hours in the report.
- **Show Database Totals** Select whether or not to display a database totals report along with your generated usage report.

#### By Application Signature

Select **by Application Signature** to generate a report based on the signature of individual applications in your database.



	CApplication Signature
Application Usage	Report Type: Used applications
by Device	Include Rule: (ALL)
	Exclude Rule: (NONE)
🛰 by User	Application Install State: Must be currently installed
🛸 by Vendor	Search Database For: Vendor names
🛸 by Product	Vendor Name:
by Product Version	Product Name:
by Product Version	Product Version:
🛸 by Application	Application Exe Name:
🛸 by Application Version	Application Version:
🛸 by Application Signature	Application Description:
🛸 by Rule Summary	Domain Name:
	Device Name:
by Concurrency	User Name:
	Interval Data Type: Monthly
<ul> <li>Operational Reports</li> </ul>	Start Date: 1 💌 2003 💌
Devices Not Collected	End Date: 3 💌 2004 💌
	Show Usage Hours: No
Devices Collected	Show Database Totals: No
🛰 Database Statistics	Submit Request

Figure 10 Application usage by application signature

The following options are available when generating application signature reports. Values are not required for every option. Leaving all options blank will return all information within your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Report Type** From the drop-down list, select the type of application signature report you want to see. This includes used and unused applications as well as application inventory information.
- **Include Rule** From the drop-down list, select an Include Rule or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Search Database For From the drop-down list, select a category and click Search to return a report of every related item. Then click any returned values to automatically fill in the current search criteria text boxes with the related information. Click **Clear** to reset the list.

Generating Usage Reports

- Vendor Name Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- Product Version Enter a product version.
- Application Exe Name Type a specific application executable name.
- Application Version Enter a specific application version.
- Application Description Enter an application description.
- **Domain Name** Type the name of a domain you want to display.
- **Device Name** Type the individual device name you want to report on.
- **User Name** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.
- Show Usage Hours Select whether or not to show Usage hours in the report.
- **Show Database Totals** Select whether or not to display a database totals report along with your generated usage report.

#### By Rule Summary

Select **by Rule Summary** to generate a report using rule summary information.

	C Rule Summary	
Application Usage	Туре:	Products
🛰 by Device	Include Rule:	(ALL)
	Exclude Rule:	(NONE)
🛰 by User	Application Install State:	Must be currently installed
🛸 by Vendor	Vendor:	
🔌 by Product	Product Name:	
🛸 by Product Version	Product Version:	
	Application:	
by Application	Domain:	
🛸 by Application Version	Device:	
🔌 by Application Signature	User:	
🌭 by Rule Summary	Interval Data Type:	Monthly
	Start Date:	1 2003 -
🔌 by Concurrency	End Date:	3 💌 2004 💌
		Submit Request
Operational Reports		
Devices Not Collected		
Devices Collected		
🔍 Database Statistics		

#### Figure 11 Application usage by rule summary

The following options are available when generating rule summary reports. Values are not required for every option. Leaving all options blank will return all information in your database – this is not recommended as it may take a very long time depending upon the size of your database.

- **Type** From the drop-down list, select the type of rule summary report you want to see. This includes products, product versions, applications, and application versions.
- **Include Rule** From the drop-down list, select an Include Rule or leave blank.
- **Exclude Rule** From the drop-down list, select an Exclude Rule or leave blank.
- **Application Install State** Select whether or not to return information for applications that are currently installed.
- Vendor Type a vendor name to display all relevant products.
- **Product Name** Type a specific product name.
- **Product Version** Enter a product version.
- **Application** Enter the name of an application.

#### Generating Usage Reports

- **Domain** Type the name of a domain you want to display.
- **Device** Type the individual device name you want to report on.
- **User** Enter the user name for which you want to see applications displayed.
- Interval Data Type Select a Daily, Monthly, or Yearly interval.
- Start Date Use the drop-down lists to select a start date for the report.
- End Date Use the drop-down lists to select an end date for the report.

#### By Concurrency

Select **by Concurrency** to generate reports that correlate concurrent application usage across multiple devices from your database. Concurrency must be turned on in order to collect the required information. See Chapter 3, Radia Usage Manager Client.

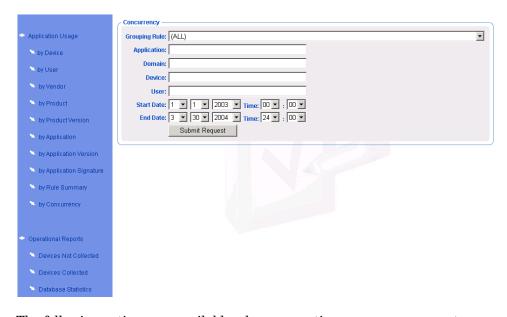


Figure 12 Application usage by concurrency

The following options are available when generating concurrency reports. Values are not required for every option. Leaving all options blank will return all information in your database – this is not recommended as it may take a very long time depending upon the size of your database.





We strongly recommend that you select a specific application executable to search for over a reasonable time period.

- **Grouping Rule** From the drop-down list, select a Group Rule or leave blank.
- **Application** Enter the name of an application.
- **Domain** Type the name of a domain you want displayed.
- **Device** Type the individual device name you want to report on.
- **User** Enter the user name for which you want to see applications displayed.
- **Start Date** Use the drop-down lists to select a start date and time for the report.
- **End Date** Use the drop-down lists to select an end date and time for the report.

### **Creating Operational Reports**

Operational Reports, unlike Application usage Reports, display information for devices in your environment as well as database-specific statistics.

#### **Devices Not Collected**

Select **Devices Not Collected** to generate a report detailing all devices not collected since a specific date.

Generating Usage Reports

	Devices - Not Collected
Application Usage	Start Date: 1 💌 1 💌 2003 💌
🛸 by Device	Submit Request
🏷 by User	
🏷 by Vendor	
🛸 by Product	
🛸 by Product Version	
🏷 by Application	
🛸 by Application Version	
🛸 by Application Signature	
🛸 by Rule Summary	
🛸 by Concurrency	
<ul> <li>Operational Reports</li> </ul>	
🛸 Devices Not Collected	
🛸 Devices Collected	
🔌 Database Statistics	

Figure 13 Operation reports devices not collected

Enter a start date to collect and display any information for devices whose Usage data has not been collected and are defined in the Radia Usage Manager Knowledge Base.

#### **Devices Collected**

Select **Devices Collected** to generate a report detailing all devices that were collected during a time period you designate.

Chapter 4

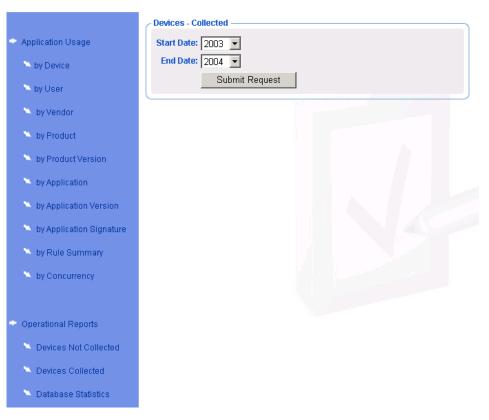


Figure 14 Operation reports devices collected

Enter a start and end date to collect and display any information for all devices that were collected and exist in your enterprise.

#### **Database Statistics**

Select **Database Statistics** to generate a report detailing the current database statistics.

Generating Usage Reports

	Table Name	Data Rows
plication Usage		Data Kows
🛰 by Device	WindowsComputerUsers	202
by Device	WindowsComputers	60
by User	WindowsUsers	74
by Vendor	UserNames	71
by Product	WindowsSids	134
by Houder	WindowsFiles	27206
by Product Version	FullFileNames	3564
by Application	FileRoots	428
by Application Version	FilePaths	637
	FileNames	1469
by Application Signature	WindowsFileInstances	27174
by Rule Summary	FileSignatures	1996
by Concurrency	FileSignatureProperties	17998
	FileProperties	9316
	FilePropertyNames	10
erational Reports	FilePropertyValues	8680
Devices Not Collected	WindowsFileUsage	79127
	UsageIntervals	53
Devices Collected	WindowsFileRoots	997

#### Figure 15 Operation reports database statistics

Database Statistics displays a list of current database information.

## **Understanding Rules**

Rule Criteria, Rules, Rule Sets, and Rule Set Groups are created and maintained using the Radia Usage Manager Rule Editor. Use this tool to create specific search criteria when generating usage monitoring reports.

A Rule Criteria is a specific attribute that is inherent to an application. For instance, if you want to define a rule that finds and displays all Microsoft Word applications, you would define the Rule Criteria as Application = winword.exe (the application that executes MS Word) and Vendor = Microsoft. Rule Criteria are then what are bundled together to form Rules.

If you want to create a more complex set of rules and criteria, create a group of Rules, called a Rule Set, then group Rule Sets together to form Rule Set



Groups. These are the highest-level rule groupings available. Creating Rules and Rules Sets is described in Chapter 5, Using the Rule Editor.

# **Examining Reports**

After the reports are generated, you can use the built in HTML features to sort each list or find out more information about a specific record.

# Sorting by Column Headings

The titles at the top of each heading are active links, allowing you to click each one to sort the data by the items in that column. Clicking the link again will sort the data in reverse order.

```
Figure 16 Click on any column heading to sort data
```

Application	IS		
LastUsed	Application	Application Version	Application Decription Microsoft Word for Windows® 97 applicati
2003/05-8	Winword.Exe	8.0.0.5622	Microsoft Word for Windows® 97 applicati
2003/05/21	Winword.Exe	9.0.0.4527	Microsoft Word for Windows
2003/05/20	Winword.Exe	9.0.0.4527	Microsoft Word for Windows
2003/05/22	Winword.Exe	9.0.0.4527	Microsoft Word for Windows

## **Retrieving More Information**

Many of the records displayed will have active links allowing you to click on an item and reveal more information about that particular device, user, application, and so on.

Generating Usage Reports

#### Figure 17 More information displayed

Domain:	
Device:	
User:	
Application:Wordpad.Exe	
Application Properties —	
Properties	
CompanyName	Microsoft Corporation
FileCRC	09133163
FileDescription	WordPad MFC Application
FileVersion	4.0.950.0
LinkTime	1995/06/14 15:11:44
ModCRC	3A3179F7
ModType	Application EXE (32 Bit)
OriginalFileName	WORDPAD.EXE
ProductName	Microsoft® Windows (TM) Operating System
ProductVersion	4.0.0.0
Extended Properties	
Full File Path Name	C:\Program Files\Accessories\Wordpad.Exe
Logical Path Name	WindowsVolume
MD5 Hash	71B7DDBFE0B7E8EE6D461A1CAFE8B24A
File Size	183296

You can also navigate to other summary report pages by clicking the links in the existing records. For example, after generating a Summary by Device report, click the Users link in any record to be transferred to the Summary by User page.

#### Device Domain: Device: Platform: Submit Request Devices Device Service Pack Users Products Product Versions Application Ve Platform Service Pack 6 Usgis Device001 Windows NT Products Product Versions Application Version: Device002 Windows 2000 Service Pack 2 Users Products Product Versions Application Version: Device003 Windows 2000 Service Pack 2 Users Products Product Versions Application Version:

#### Figure 18 Users link in Summary by Device report record

#### Retrieving Record-Specific Information

Once a report is displayed, the Navigate To feature becomes available. Use the Navigate To drop-down list box to return specific information for any report record.

Generating Usage Reports

	Device			
Application Usage	Domain:			
🛸 by Device	Device:			
🔍 by User	Platform:			
🛸 by Vendor	Submit Request			
🔌 by Product	Navigate To:	1		
🦠 by Product Version	Users			
🔌 by Application	Vendors Products Product Versions	in Major Version	Minor Version	Build Numb
🔍 by Application Version	Application Version	4	0	1381
	Application Signature Application Detail	5	0	2195
by Application Signature	Device003 Windows 2000 Service Pack 2	5	0	2195
🔌 by Rule Summary	Device004 Windows 2000 Service Pack 2	5	0	2195
🔌 by Concurrency	Device005 Windows 2000 Service Pack 2	5	0	2195
	Device006 Windows 2000 Service Pack 2	5	0	2195
	Device007 Windows 2000 Service Pack 2	5	0	2195
Operational Reports	Device008 Windows 2000 Service Pack 2	5	0	2195
🔍 Devices Not Collected	Device009 Windows 2000 Service Pack 2	5	0	2195
Devices Collected	Device010 Windows 2000 Service Pack 2	5	0	2195
	Device011 Windows 2000 Service Pack 2	5	0	2195
🔍 Database Statistics	Device012 Windows 2000 Service Pack 2	5	0	2195

Figure 19 Navigate To drop-down list

Select an item from the list, and then select a report record.



	Oevice -						
Application Usage	Domain	11					
🔍 by Device	Device	:					
🔍 by User	Platform						
🛸 by Vendor		Submit R	lequest				
🔌 by Product	Navigate	To:					
🔍 by Product Version	Users						
🛸 by Application	Devices Device	Platform	Service Pack	Domain	Major Version	Minor Version	Build Numbe
by Application Version	Devign001	Windows NT	Service Pack 6		4	0	1381
by Application Signature	Device002	Windows 2000	Service Pack 2		5	0	2195
<ul> <li>by Application Signature</li> </ul>	Device003	Windows 2000	Service Pack 2		5	0	2195
🛸 by Rule Summary		Windows 2000	Service Pack 2		5	0	2195
🛸 by Concurrency			Service Pack 2		5	0	2195
	Device006	Windows 2000	Service Pack 2		5	0	2195
	Device007	Windows 2000	Service Pack 2		5	0	2195
Operational Reports	Device008	Windows 2000	Service Pack 2		5	0	2195
🔍 Devices Not Collected	Device009	Windows 2000	Service Pack 2		5	0	2195
Devices Collected			Service Pack 2		5	0	2195
			Service Pack 2		5	0	2195
Database Statistics	Device012	Windows 2000	Service Pack 2		5	0	2195

Figure 20 Selecting record-specific information

A new report is generated in a new window, detailing all the related information for the record you selected.

Generating Usage Reports

Figure 21 New record-specific repor	Figure 21	New record-specific report
-------------------------------------	-----------	----------------------------

	User		
Application Usage	User:		
🦠 by Device	Domain:		
🏷 by User	Device: Device001 Submit	t Request	
🔌 by Vendor			
by Product	Navigate To:	<b></b>	
by Product Version	Application Detail	•	
by Application	Users	Device	Domain
by Application Version	Administrator	Device001	
	SYSTEM	Device001	
by Application Signature	User0001	Device001	
by Rule Summary			
by Concurrency			
perational Reports			
Collected			
Devices Collected			

# Summary

- Select the type of report you would like to generate on the Usage report page.
- Customize the information displayed in each report using the available text boxes on each page.
- Click any individual link in a report to see more information.
- Search the database to help complete your report generator text boxes.
- Use the Navigate To drop-down box to return record specific information.

Generating Usage Reports

# 5 Using the Rule Editor

# Using the Rule Editor

Use the Rule Editor to create specific search criteria to be implemented when you are generating your usage monitoring reports. Creating these criteria allow you to supplement the existing search options and create better reports based on your individual organization's needs. The Radia Rule Editor is installed as part of the Radia Usage Manager Administrator.

To access the Rule Editor

1 From the Start menu, go to Novadigm  $\rightarrow$  Usage Manager  $\rightarrow$  Rule Editor.

Radia Application Knowledge Base Login	×
ODBC DSN: RadiaUsageManager	_
User Name: sa	kajos Radia
Password:	Plugin Manager 1.0
OK Cancel	

- 2 Select the name of the DSN you will be using and type your User Name and Password in the text boxes provided.
- 3 When finished, click **OK**.

The Radia Rule Editor consists of four tabs you can use to define rule criteria, rules, rule sets, and rule set groups.

# Rule Editor Search Function

After selecting criteria, rule, rule set, or rule set group, click the **Search** button near the bottom of the window to preview your query results. Query results are displayed in a table at the bottom of the Rule Editor window.

The search function can be used at any stage of the rule creation process.

# Creating Criteria, Rules, Rule Sets, and Rule Set Groups

Use the Radia Rule Editor to create criteria, rules, rule sets, and rule set groups that can then be used when you generate usage reports. Once created, these rules and criteria will then be available in the Include Rule and Exclude Rule drop-down lists within the usage report generation pages.

Figure 22 Include rule and exclude rule drop-down lists

	C Vendor
Application Usage	Report Type: Used applications
by Device	Include Rule: (ALL)
	Exclude Rule: (NONE)
🔍 by User	Application Install State: Must be currently installed
🛸 by Vendor	Search Database For: Vendor names

Each process used to define criteria, rules, rule sets, and rule set groups is similar. Each tab allows you to either use an existing rule to search for records or create your own with any customizations you apply. Rules can be created as specific as you would like depending on the criteria you choose.

# Operators AND versus OR

There are two types of criteria, rules, rule sets, and rule set groups you can create: AND and OR. Before creating the rule, decide which type you would like to create and select the appropriate operator from the Operator drop-down list.

#### Figure 23 Operator drop-down list

Criteria Rules Rule Sets Rule Set Groups	
Rule Set Groups	
Microsoft Office and Internet Applications	Operator: OR <u>A</u> dd <u>D</u> elete
Rule Sets	
☑ Internet Apps - All	
Microsoft Office All Versions	

Creating a criterion using the AND operator specifies that in order for a record to match that criterion, all of the properties specified must be true. For example, a criterion designed with



Vendor property	=	Equals Microsoft
Application property	=	Like WinWord
Operator	=	AND

will return only Microsoft Word records.

If the OR operator was selected in the above example, all applications with Vendor Microsoft will be returned.

The AND operator is most effective when creating criteria only. The OR operator is more appropriate for creating rules, rule sets, and rule set groups.

# Criteria Tab

Use the Criteria tab to define specific application criteria you will use to display collected information when generating usage monitoring reports.

🙀 RADPIMGR - [RuleEdit View]	
Prile View Window Help	_ <u>_</u> X
Criteria Rules Rule Sets Rule Set Groups	
Criteria	
Operator:	AND Add Delete
Property Condition Value(s) Description	
Search Copy SQL to Clipboard	
Ready	NUM //

Figure 24 Criteria tab

Before you select application criteria, you can use the Criteria drop-down list to check if any of the existing applications can be used.

Using the Rule Editor

Microsoft Excel				▼ <u>A</u> dd
License Compliance Wizard				
McAfee VirusScan				
_ microsoft				
Microsoft (R) .NET Framework				
Microsoft (R) Network Monitor				
- Microsoft .NET Framework				P
Microsoft Access				Rel.Mod.Bu
Microsoft Agent Server				
Microsoft Clip Gallery				/er.Rel.Mod
Hicrosoft Data Access Compone				V GILLI GLIMIOC
Microsoft Distributed Transaction	Coordinator			
Microsoft Equation Editor				hFilesFolder
Microsoft Excel				Logical Roo
Microsoft Exchange				
Microsoft IME 2000				
Microsoft Map				
Microsoft Office 2000				
H Microsoft Office XP				
Microsoft Open Database Conne	ctivity			_
Microsoft Organization Chart				
			1	
	Application	Application Versi	Vendor	l Domain
FileSignature_id VindowsFile_id	Siremote Eve	Application version	Vendor	povactra pov

Figure 25 Choose an existing application to define criteria

Once you select an application from this list, check a Property box to add that to the Criteria.

Property	Condition	Value(s)	Description		
Vendor			Vendor who created the file		
Product Name			Product Name that uses the file		
Product Version			Product version number in Ver.Rel.Mod.Build for		
Application	Equals	excel.exe	Application file name		
Application Version			Application version number in Ver.Rel.Mod.Build		
Application Description			Application file description		
Original File Name			Original file name - if renamed		
Root Logical Folder			Root folder name - i.e. ProgramFilesFolder or Sys		
Path Suffix			Remainder of path name after Logical Root - i.e		
MD5 Hash			Calculated MD5 hash value		
Mod CRC			Calculated module header CRC value	•	
<u>S</u> earch <u>C</u> op	y SQL to Clipboard				

#### Figure 26 Select a property to include in the criteria

Double-click any row in the Condition or Value columns to add a condition and value to the criteria. As an example, the steps below describe how to create rule criteria where the Vendor property is equal to Microsoft.

Using the Rule Editor

RADPIMGR - [RuleEdit View File View Window Help	w]			
Criteria Rules Rule Sets R Criteria Microsoft	lule Set Groups		Operator: AND      Add      Delete	
Property	Condition	Value(s)	Description	
Vendor	Like	Microsoft	Vendor who created the file	
Product Name	Lino	morocont	Product Name that uses the file	
Product Version			Product version number in Ver.Rel.Mod.Build for	
Application			Application file name	
Application Version			Application version number in Ver.Rel.Mod.Build	
Application Description	Cri	teria : Vendor	×	
Original File Name	C/	ondition: Like		
Root Logical Folder		Like	M	
Path Suffix		Value: Microsoft	· · · ·	
Mod CRC		·	OK Cancel	
	and one of			
Search Copy	SQL to Clipboard			
I				
r Ready			jj	

#### Figure 27 Select a criteria condition and value

#### To create Rule Criteria

1 To the right of the Criteria drop-down box, click the **Add** button to create new criteria. Enter a name for the criteria in the dialog box that opens.

RADPIMGR - [RuleEdit V File View Window Help				_ D ×
Criteria Rules Rule Sets	Rule Set Groups			
Criteria				
Microsoft			Operator: AND      Add Delete	
Property	Condition	Value(s)	Description	
✓ Vendor	Like	Microsoft	Vendor who created the file	
Product Name			Product Name that uses the file	
Product Version			Product version number in Ver.Rel.Mod.Build for	
Application			Application file name	
Application Version			Application version number in Ver.Rel.Mod.Build	
Application Description	c 11 - 1		Application file description	
	Lriteria		X	
Root Logical Fold			OK	
Path Suffix				
MD5 Hash			Cancel	
Mod CRC				
Search Co	opy SQL to Clipboard			
Ready				NUM //

Names are sorted in the report pages in ascending sequence so frequently used names should be prefixed with a character that places them at the top of the sort sequence.

- 2 Click **OK** to close the Add Criteria dialog box.
- 3 Double-click on the **Vendor** attribute row.
- 4 In the dialog box that opens, select **Equals** in the Condition text box.
- 5 In the Value text box, type Microsoft. Note that this value is used in a SQL command and must conform to SQL syntax rules.
  - The typed text must conform to SQL Server query rules, for example, you can select the **LIKE** clause and type text such as **%Microsoft%** to define a criterion for any application whose Vendor definition contains the character string Microsoft.

Using the Rule Editor

Criteria : V	endor			×
Condition:	Equals			•
Value:				
		OK	Cancel	

The use of LIKE clauses with preceding % may cause lengthy search times during reporting. We strongly recommend that you use the EQUALS clause.

6 Test the criteria by clicking Search to retrieve all entries in the Radia Usage Manager Knowledge Base that match the criteria you defined. Entries are displayed in the table at the bottom of the window.

)	Window Help								
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The new criterion is complete and ready to be used in any rules you generate.

# **Rules Tab**

Rules are a combination of Rule Criteria. Use the Rules tab to define rules based on the criteria you selected in the Criteria tab.

Chapter 5



RADPIMGR - [RuleEdit View]     File View Window Help	- D × - 8 ×
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Use the Rules drop-down list box to select any default Rules. Once a Rule is selected, the Criteria that are part of that Rule are displayed.

Using the Rule Editor

#### Figure 29 Criteria for each rule is displayed

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#### To create a new Rule

1 Click **Add** to define a new Rule. Enter a name for the Rule in the dialog box that opens.

Add Rule		×
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r	Cancel	

#### 2 Click OK.

3 Select any criteria you would like to include in the new rule by clicking the check box to the left of the criterion name.

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4 Test the Rule by clicking **Search**. All matching records are displayed in the table at the bottom of the Radia Rule Editor window.

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The new rule is complete and ready for inclusion in any Rule Sets you generate.

Using the Rule Editor

# Rule Sets Tab

A Rule Set is a grouping of Rules. Use the Rule Sets tab to define which rules you would like to combine to form a Rule Set instance.

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Figure 30 Rule Sets tab

Use the Rule Sets drop-down list to select any existing Rule Sets. Once a Rule Set is selected, the Rules that make up that Rule Set are displayed.



#### Figure 31 Rules included in the Rule Set are displayed.

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#### To create a new Rule Set

- 1 Click **Add** to define a new Rule Set. Enter a name for the Rule Set in the dialog box that opens.
- 2 Click OK.
- 3 Select any rules you would like to include in the new Rule Set by clicking the check box to the left of the rule name.

Using the Rule Editor

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4 Test the Rule Set by clicking **Search**. All matching records are displayed in the table at the bottom of the Radia Rule Editor window.

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Chapter 5

The new Rule Set is complete and ready for inclusion in any Rule Set Groups you may generate.

# Rule Set Groups Tab

If you want to combine multiple Rule Sets, create a Rule Set Group instance.

Figure 32 Rule Set Groups tab

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Use the Rule Set Groups drop-down list to select any existing Rule Set Groups. Once a Rule Set Group is selected, all of the Rules Sets that make up that Rule Set Group are displayed.

Using the Rule Editor

% RADPIMGR - [RuleEdit View]	_ 🗆 ×
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eady	NUM

#### Figure 33 Rule Sets included in the Rule Set Group are displayed

#### To create a new Rule Set Group

- 1 Click **Add** to define a new Rule Set Group. Enter a name for the Rule Set Group in the dialog box that opens.
- 2 Click OK.
- 3 Select any Rule Sets you would like to include in the new Rule Set Group by clicking the check box to the left of the Rule Set name.

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4 Test the Rule Set Group by clicking **Search**. All matching records are displayed in the table at the bottom of the Radia Rule Editor window.

Using the Rule Editor

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	WindowsFile_id           19180           21138           12187           22459           24592           8937           19178           197647           17731           11858	Application Winword Exe Winword Exe Winword Exe Winword Exe Winword Exe Powerpht Exe Powerpht Exe Powerpht Exe Powerpht Exe Powerpht Exe	9.0.0.3822 9.0.0.3822 9.0.0.3822 9.0.0.3822 9.0.0.3822 9.0.0.3822 9.0.0.3821 9.0.0.3821 9.0.0.3821 9.0.0.3821	Microsoft Corpor Microsoft Corpor Microsoft Corpor Microsoft Corpor Microsoft Corpor Microsoft Corpor Microsoft Corpor Microsoft Corpor Microsoft Corpor	Domain	Device020 Device016 Device004 Device038 Device034 Device030 Device030 Device013 Device016 Device004	Microsoft Office Microsoft Office Microsoft Office Microsoft Office Microsoft Office Microsoft Power Microsoft Power Microsoft Power Microsoft Power	

The new Rule Set Group is complete.

Now that you've finished creating criteria, rules, rule sets, and rule set groups, you can generate reports based on your own specifications using the report generator options Include Rule and Exclude Rule. For more information, refer to the chapter on generating reports in this book.

# Summary

- Use the Radia Rule Editor to create your own criteria, rules, rule sets, and rule set groups.
- Use these customized rules to generate reports.

Using the Rule Editor

# A Implementing the Radia Usage Manager in a Non-Radia Environment

The Radia Usage Manager client can operate independently of a Radia environment to enable organizations to determine priorities for application or operating system migrations.

Included with the Radia Usage Manager media are specific configuration files you can use to configure and install your Radia Usage Manager client. These files are located in your Radia Usage Manager media in the \Client Install\Setup\ directory and are described in Table 1 below.

Table 1 Radia Usage Manager Files

Filename	Description
UMSetup.exe	Client installation program
UMSetup.ini	Client installation configuration file
USDBColl.ini	Collection configuration file

Additionally, sample batch files are included in the \Samples\RUM Client - Batch Install\ directory that will help streamline the process of installing your Radia Usage Manager client and collection parameters. These files are described in Table 2 below.

 Table 2
 Client Batch Install Sample Files

Filename	Description
rumclient.bat	Installs the Radia Usage Manager client and collection parameters.
collect.bat	Issues a usage data collection request to send current usage data to the database.

137

# Radia Usage Manager Configuration: Non-Radia Infrastructure

To configure your Radia Usage Manager components for this environment, see Chapter 2, Configuring Your Environment. Once your Radia Usage Manager components are configured, you are ready to configure and install the client and collection parameters.

# Configuring the Radia Usage Manager Client

The Radia Usage Manager client is installed by either a Radia service or independently through any distribution methodology. The Radia Usage Manager is installed by a setup executable and can be configured through the UMSetup.ini file residing in the same directory as the UMSetup.exe. Alternatively, the installation may be configured using command line arguments with the following names and values:

UMSETUP.EXE SerialNumber=RA-00-0000-00000000-0000-0000 UM InventoryInterval=1



Non-Radia implementation does not support filters inherently. Specific Registry keys must be configured.

#### **UMSetup.INI File Configuration Parameters**

The configuration file can be customized for different sets of client machines. Table 3 on page 139 describes these options.



Parameter	Description
<b>NovadigmFolder =</b> [ProgramFilesFolder] \Novadigm\	Defines where the Radia Usage Manager client binaries are to be installed on the client machine. These must be stored on a local drive only. They cannot be stored on a network drive.
	Note: If Radia Extensions for Windows Installer is already installed on the machine, this path will be overridden to be the installation path used by this product.
SerialNumber =	Defines the license key serial number for Usage Profiling. This is provided by HP.
UM_LocalPath = [ProgramFilesFolder] \Novadigm\Application Extensions\Usage Manager\	Defines where the active usage monitoring and history files are stored on the client machine. These must be stored on a local drive only. They cannot be stored on a network drive.
<b>UM_Enabled =</b> 0 or <u>1</u>	Defines whether application usage profiling is installed as <b>active</b> . If set to 0, then application usage is not monitored for any application.
<b>UM_EnableFocusTime =</b> 0 or <u>1</u>	Defines whether application focus time is monitored and reported on. If set to 0, then focus time is not monitored.
<b>UM_InventoryInterval =</b> 0   1   2   3 representing No Inventory   Monthly   <u>Weekly</u>   Daily	Defines when the current executable inventory for the machine is run.
<b>UM_InventoryDayofMonth =</b> 1 - 31	Defines the relative day of the month that the current executable inventory should be run.
<b>UM_InventoryDayofWeek =</b> 1 - 7	Defines the relative day of the week that the current executable inventory should be run. 1 = Sunday, 7 = Saturday.

#### Table 3 UMSetup.INI Configuration Parameters

Implementing the Radia Usage Manager in a Non-Radia Environment

Parameter	Description
<b>UM_InventoryHour =</b> 00 – 23 where 13 is 01:00 pm	Defines what hour of the day the current executable inventory for the machine is run.
<b>UM_InventoryMinute =</b> 00 - 59	Defines what minute of the hour the current executable inventory for the machine is run.
<b>UM_ObfuscateComputer</b> = 0   1	Obfuscate computer name to conform to privacy laws. 1 = Yes 0 = No
UM_ObfuscateUser = 0   1	Obfuscate user name to conform to privacy laws. 1 = Yes 0 = No
<b>UM_ObfuscateDomain</b> = 0   1	Obfuscate domain name to conform to privacy laws. 1 = Yes 0 = No
<b>UM_ObfuscateUsage</b> = 0   1	Obfuscate usage information to conform to privacy laws. 1 = Yes 0 = No

# The Radia Usage Manager Client Install

The default \_BASE\_INSTANCE\_ definition for the Radia Usage Manager defines default configuration options when installing the Radia Usage Manager. Services that install and maintain the Radia Usage Manager execute scripts that by default, perform the following actions with regard to the Service options:



Script changes may modify the processing options and these may not be reflected in this documentation.

Appendix A

Function	Command Line
Create	UMsetup.exe (installs client)
Verify	Umsetup.exe /v (verifies client)
Update	UMsetup.exe (updates client)
Delete	UMsetup.exe /x (un-installs client)

Table 4Execute scripts

#### Removing the Radia Usage Manager Client

Use UMSetup.exe with the /x command-line argument to remove the Radia Usage Manager client, for example:

C:\Program Files\Novadigm\Setup\Bin\UMSETUP.EXE /x

# Copying Required Files

Once the Radia Usage Manager client is installed, three files must be copied to the same directory where you installed the client, for example, C:\Program Files\Novadigm. These files are included with the Radia Usage Manager media and are as follows:

gzip.exe

Located in the \Client Install\Setup\GZIP directory. Used by the Radia Usage Manager for compressing and decompressing data during transfer to and from a SQL database.

- nvdkit.exe Collection of components used by the Radia Usage Manager. Located in the \Client Install\Setup\bin\ directory.
- hide.exe Hides the nvdkit.exe user interface from the process. Located in the \Client Install\Setup\bin\ directory.

Implementing the Radia Usage Manager in a Non-Radia Environment

### **Collecting Data**

Collect usage data by first defining collection parameters within the file USDBCOLL.INI and then installing that collection. The collection parameters are installed when UMSETUP.EXE is executed.

#### **Configuring Collection Parameters**

The collection configuration file, USDBCOLL.INI, is used to define your usage data collection. Table 5 below describes each available configuration section.

Parameter	Description
DatabaseName	Name of your database.
CollectionPoint	The IP address of the associated Radia Integration Server and port number.
CollectionRandom	Randomizes collection process to occur anytime from the start time through a randomly generated number of minutes later.
CollectionInterval	When to process collections, monitor (no collection), monthly, weekly, daily.
CollectionDayOfMonth	Day of the month to process collection.
CollectionHour	Hour to begin data collection process.
CollectionMinute	Minute to begin data collection process.

Table 5Collection Configuration File (USDBColl.ini)

#### Configuring Database Specific Collection

The executable usdbcoll.exe initiates the data collection process and can be launched by a Radia Service or otherwise. Two command-line parameters are passed that indicate the SQL database specific configuration parameters and the filter rules to be applied when copying the information from the inventory and active monitoring files to the database specific collection file, for example:

Appendix A

USDBCOLL.EXE /i DatabaseName=SQL database name

See Table 6 below for a description of the USDBCOLL.EXE parameter values.

#### Re-collecting Usage Data

In the event you need to collect lost or damaged usage data, USDBCOLL.EXE supports the recollection of data with the /r parameter. To initiate recollection, use the /r parameter and define the **RecollectMode** value on the command line. For example:

USDBCOLL.EXE /r RecollectMode=1 DatabaseName=MyDatabase

See Table 6 below, for a description of the different RecollectMode values.

Parameter	Description
DatabaseName= UniqueSQLDatabaseName	Defines a unique SQL database name for collection purposes.
RecollectMode=Value	Defines the type of data to be re-collected. Value can be either 1,2, or 3 as defined below.
	1 – <b>Signatures</b> - all file signature data is re-collected for all files that meet the collection filter. This includes the data for the FileSignatures and FileSignatureProperties tables.
	2- <b>Files</b> - all Windows file data is recollected for all files that meet the collection filter. This includes all of the data collected in Signature mode as well as data for the WindowsFiles and WindowsFileInstances tables.
	3 – <b>Usage</b> - all Windows file usage data is re-collected for all files that meet the collection filter. This includes all of the data collected in File mode as well as data for the WindowsFileUsage table.

 Table 6
 USDBCOLL.EXE command line parameters

# Installing the Radia Usage Manager Client and Collection Parameters

Once you've configured your Radia Usage Manager client and configuration parameters using the two .ini files, you are ready to install the components to your client computers.

Implementing the Radia Usage Manager in a Non-Radia Environment

A sample batch file, <code>rumclient.bat</code>, is supplied with the Radia Usage Manager media in the <code>\Samples\RUM Client - Batch Install\</code> directory.

This file will install the Radia Usage Manager client as well as the collection parameters you defined within each .ini file.

Once the Radia Usage Manager client and collection parameters are installed, refer to Chapter 4, Generating Usage Reports to learn about generating reports to view your usage data.

# Index

#### A

active monitoring file, 21 active usage data, 21 All Apps - Except Base OS Apps instance, 68 Application class, 54 Application instance, 57 Application Packages class, 54 application usage data, 26 **Application Usage Reports** By Application, 96 By Application Signature, 100 By Application Version, 98 By Concurrency, 104 By Device, 88 By Product, 92 By Product Version, 94 By Summary, 102 By User, 89 By Vendor, 90 creating, 87 Archive subdirectory, 58 AutoImport directories, 20, 43 Automated Import, 20 automated import server, 43

# С

Client Methods class, 54 CMETHOD attribute, 72 CMETHOD class, 54 CMETHOD instance, 59, 61, 68 collect.bat, 137 Collection class, 55, 67 Collection class instances, 56 applying filters, 69 Collection instance, 57 collection point, 38 COLLHOUR instance, 59 COLLMIN instance, 59 common infrastructure, 15 COMPNAME attribute, 72 concurrency, 76 Concurrency – Incl Radia Apps instance, 68 concurrency usage, 12 concurrency usage data collection, 77 Configuration class, 55 Configuration instance, 57 Criteria Tab, 119

## D

data collection requests, 21 data collection types, 12 Database class, 55 DAYOFMON instance, 59, 60 DAYOFWK instance, 59, 60 DB\_OWNER, 49 DBASCONN, 59 DBReconnectms, 48 Default Filter Criteria Params, 70 Default Filter Set Parameters instance, 69 default filter sets, 68 DESTCONN instance, 59 Destination Point class, 55 document changes, 4 documentation updates, 4

# E

ENABLED instance, 59, 61 Exclude All filter rule, 63 Exclude All instance, 75 Exclude Rule, 88 exclusion filter, 55, 66 executable file inventory scan, 21 export directories, 43

#### F

FILE class, 55

File Resources class, 55 File Root class, 55 **FILEDESC** attribute, 72 FILENAME attribute, 72 FILEPATH attribute, 72 FILEROOT class, 55 FILEVER attribute, 72 Filter class instances, 56 Filter Criteria class, 55, 63, 65 Filter Criteria, creating, 70 Filter Rule class, 55, 63, 66 Filter Rule instance, creating, 73 Filter Set. 67 Filter Set class, 55, 63, 67, 68 Filter Set instance, 59 filter, applying to a Collection class, 69 FLTRUL## instance, 68 FLTSET01 instance, 59 FLTSET02 instance, 59 focus time, 21 FSIGMODE instance, 61

# G

gzip.exe, 141

#### Η

hide.exe, 141 history file, 19 history.usdbase, 79 HTTP\_PUT request, 38 httpd.rc file, 36

#### 

Include Rule, 88 inclusion filter, 55, 66 infrastructure reporting, 16 infrastructure requirements, 15, 16 INTERVAL instance, 59, 60 Inventory class, 56 inventory data, 12 initiating a collection, 78 Inventory instance, *57*  Inventory Only – Incl All Files instance, 69 INVNHOUR instance, 60 INVNMIN instance, 61

## L

Log Path, 48

### Μ

MD5HASH attribute, 72 Microsoft Licensed Applications instance, 69 MODE instance, 68

#### Ν

NAME attribute, 71 NAME instance, 59, 60, 67 Navigate To, 111 nvdkit.exe, 141

# 0

OBFSCOMP, 82 OBFSDOMN, 82 OBFSUSAG, 82 OBFSUSER, 82 obfuscation, 81 Operational Reports, 105 Database Statistics, 107 Devices Collected, 106 Devices Not Collected, 105 Operator drop-down list, 118 Operators, 118 Oracle database scheme, configuring, 28 Oracle DBA Studio, 28, 30 ORIGNAME attribute, 72

#### Ρ

PACKAGE class, 54 PACKAGE instance, 57 PATH class, 56 PRIORITY instance attribute, 74 privacy, 81 PRODNAME attribute, 72 PRODVER attribute, 72

put.cfg file, 36, 37

#### R

Radia Application Knowledge Base, 28 Radia Extensions for Windows Installer, 26 Radia Integration Server, 22 description, 22 Radia Inventory Manager, 26 Radia KB Manager, 42 configuration control panel, 43, 44 configuring autoimport directories, 45 installing, 43 SQL server requirements, 49 starting and stopping, 49 Radia KB Manager Configuration icon, 43 Radia Packager for Windows Installer, 43 Radia Patch Manager, 43 Radia Rule Editor, 117 accessing, 117 Search Function, 117 Radia state files, 43 Radia Usage Manager benefits, 11 configuration without Radia, 138 data collection types, 12 description, 11 installation options, 55 inventopry scan, 56 packages, 54 processing, 14 services, 54 sstem reuirements, 13 Radia Usage Manager Administrator, installing, 40 Radia Usage Manager Client, 18 configuring, 56 non-Radia install, 61, 140 uninstalling, 141 Radia Usage Manager Database, 26 Radia Usage Manager Knowledge Base, 42 RadKBMgr, 49 RADPIMGR.exe, 42 Record, retrieving record specific information, 111 report types, 86 Reports examining, 109 sorting, 109 viewing more information, 109 **ROOTCONN** attribute, 72

Rule Editor.cmd, 42 Rule Set Groups Tab, 131 Rule Sets Tab, 128 Rule Tab, 124 Rules, understanding, 108 rumclient.bat, 137, 144

#### S

software configurations, 17 state file data, 26 state files, 43

#### U

UMCOLLCT class, 19, 55, 67 UMCOLLCT instance, 57 UMCOLLCT object, 38 UMCOLLCT.EXE, 142 UMCONFIG class, 55 UMCONFIG instance, 57 UMDBASE class, 55 **UMDESTPT** class, 55 UMFLTCRI class, 55, 65 UMFLTCRI classs, 70 UMFLTRUL class, 55, 66 UMFLTSET class, 55, 67, 68, 76 UMINVENT instance, 57 UMSetup.exe, 137 UMSetup.exe, 138 UMSetup.ini file, 137, 138 UNINVENT class, 56 updates to doc, 4 Usage - Include All Files instance, 69 usage collection files, 55 usage data, 12, 55 initiating a collection, 79 usage database files, 37 usage directory, 40 USAGE domain, 38 adding to database, 49 classes, 54 definition, 53 usage files active application monitoring, 18

Implementing the Radia Usage Manager in a Non-Radia Environment

collection files, 19 history file, 19 usage filtering criteria, 55, 66 usage monitoring data, 21 Usage Reports accessing, 85 creating, 86 usage.cfg file, 39 configuring, 39 usage\_Oracle.cfg, 39 usage\_SQL\_Server.cfg, 39 usdbcoll.exe, 78, 79 USDBCOLL.INI, 142 USDBColl.ini file, 137 usdbinvn.exe, 78

# Ζ

ZOBJID, 19 ZSERVICE class, 54