



Using the REX Accounting Script

This chapter describes how to use the REX Accounting Script (RAS). The RAS writes RADIUS Accounting requests to a local, flat file and is included as an option for Cisco Prime Access Registrar (Cisco Prime AR). It is designed to be attached to a Cisco Prime AR IncomingScript or OutgoingScript point. When used in conjunction with the Cisco Prime AR built-in proxy support, the server will concurrently store a local copy of an Accounting request and proxy another copy to another RADIUS server.

Note

Unless you require log rotation at an exact time or when the accounting log reaches a specific file size, Cisco recommends that you use service grouping to log and proxy accounting packets.

RAS can be attached to more than one Cisco Prime AR extension point. For example, in a dial-up resale scenario, you might configure Cisco Prime AR to proxy Accounting requests to many different Remote Servers (by realm). For some subset of those, you might want to keep a local copy of the Accounting requests. In this case, RAS could be installed as the IncomingScript on just the Services for which a local copy is desired.

Note

Also included is the **DropAcctOnOff** Script. This script causes Cisco Prime AR to drop all Accounting-Requests with an **Acct-Status-Type** of **Accounting-On** or **Accounting-Off**.

This chapter contains the following sections:

- Building and Installing the REX Accounting Script
- Configuring the Rex Accounting Script
- Specifying REX Accounting Script Options

Building and Installing the REX Accounting Script

The RAS writes RADIUS Accounting requests to a local, flat file and is included as an option for Cisco Prime Access Registrar (Cisco Prime AR). It is designed to be attached to a Cisco Prime AR IncomingScript or OutgoingScript point.

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Building and Installing the REX Accounting Script

To build and install RAS:

- Step 1 Change directory to \$INSTALL/examples/rexacctscript.
- Step 2 Modify the Makefile to ensure the AR_INSTALL_DIR variable points to the directory where the Cisco Prime AR software was installed, and then choose a compiler (gcc or SUNPro CC).
- **Step 3** From the command line prompt, enter:

host% make

- Step 4 Log in as user root.
- **Step 5** From the command line prompt, enter:

host# make install

Configuring the Rex Accounting Script

RAS can be attached to more than one Cisco Prime AR extension point. For example, in a dial-up resale scenario, you might configure Cisco Prime AR to proxy Accounting requests to many different Remote Servers (by realm).

Configuring the Rex Accounting Script

To configure RAS:

Step 1 Start the Cisco Prime AR **aregcmd** configuration utility and login:

```
> $INSTALL/usrbin/aregcmd -C localhost -N admin -P aicuser
```

```
Access Registrar Configuration Utility Version 1.3

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Logging in to localhost

[ //localhost ]

LicenseKey = xxxx-xxxx-xxxx

Radius/

Administrators/

Server 'Radius' is Running, its health is 10 out of 10

-->
```

Step 2 Using aregcmd, create a new Cisco Prime AR Script object:

--> cd /Radius/Scripts

```
[ //localhost/Radius/Scripts ]
    Entries 1 to 20 from 39 total entries
    Current filter: <all>
    ACMEOutgoingScript/
    AscendIncomingScript/
```

<... other output deleted...>

--> add LocalAccounting

Added LocalAccounting

Step 3 Using **aregcmd**, fill in the details of the new Cisco Prime AR Script object. See Chapter 4, "Cisco Prime Access Registrar Server Objects," for more details.

--> cd LocalAccounting

```
[ //localhost/Radius/Scripts/LocalAccounting ]
```

```
Name = LocalAccounting
Description =
Language =
Filename =
EntryPoint =
InitEntryPoint =
InitEntryPointArgs =
```

--> set Desc "Log Accounting requests to local file"

```
Set Description "Log Accounting requests to local file"
```

--> set lang REX

Set Language REX

--> set filename libRexAcctScript.so

Set Filename libRexAcctScript.so

--> set entry RexAccountingScript

Set EntryPoint RexAccountingScript

--> set initentrypoint InitRexAccountingScript

Set InitEntryPoint InitRexAccountingScript

--> set initentrypointargs "-f Accounting -t 1:15"

Set InitEntryPointArgs "-f Accounting -t 1:15"

--> ls

```
[ //localhost/Radius/Scripts/LocalAccounting ]
Name = LocalAccounting
Description = "Log Accounting requests to local file"
Language = REX
Filename = libRexAcctScript.so
EntryPoint = RexAccountingScript
InitEntryPoint = InitRexAccountingScript
InitEntryPointArgs = "-f Accounting -t 1:15"
```

-->

Step 4 Using **aregcmd**, attach the new Cisco Prime AR Script object to the appropriate Cisco Prime AR Scripting point. See Chapter 4, "Cisco Prime Access Registrar Server Objects," for more details.

--> set /radius/IncomingScript LocalAccounting Set /Radius/IncomingScript LocalAccounting

Step 5 Using **aregcmd**, save the configuration modifications:

--> **save** Validating //localhost... Saving //localhost...

Step 6 Using **aregcmd**, reload the server:

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--> reload

```
Reloading Server 'Radius'...
Server 'Radius' is Running, its health is 10 out of 10
```

Specifying REX Accounting Script Options

The REX Accounting Script supports the options shown in Table 26-1.

Table 26-1REX Accounting Script Supported Options

Option	Description
-f <filename></filename>	Required. Specify the name of the output file.
-t <hh:mm[:ss]></hh:mm[:ss]>	Specify a time of day to roll the output file. Note, this is time on the 24-hour clock, for example, $00:05 = 12:05$ am, $13:30 = 1:30$ pm. This option can not be used with the -i option.
-i <seconds></seconds>	Specify the number of seconds between rolling the output file, beginning at start-up. This option can not be used with the -t option.
-s < <i>size</i> >[klmlg]	Specify the maximum size for an output file. When the file reaches this size, it will be rolled.
	When specifying the $\langle size \rangle$ option, a $\langle unit \rangle$ can be included. When a $\langle unit \rangle$ is not included, the $\langle size \rangle$ is in bytes. Note, do not use a space character between the $\langle size \rangle$ and $\langle unit \rangle$ options.
	$\langle unit \rangle$ can be either: k = 1K, m = 1Meg, g = 1Gig.
-g	Use GMT when writing the date/time in the Accounting output file for each record (default is local time).
-G	Use GMT when naming rolled output files (default is local time).
-A	Process all packets, not just Accounting-Requests.
-I	Ignore errors when processing packets, always return successfully.
-a <buffer-count></buffer-count>	Pre-allocate this many Accounting buffers to improve performance.
-T <trace-level></trace-level>	Set the trace level. This trace info appears in the output file (as its written by the background thread which no longer has a packet to use for logging or tracing.)
-O <script-description></script-description>	Call another REX extension before calling the RexAcctScript .
-0 <script-description></script-description>	Call another REX extension after calling the RexAcctScript .

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Example Script Object

This is an example of what a Cisco Prime AR Script object using RAS might look like when viewed in the Cisco Prime AR configuration utility, **aregcmd**:

```
[ //localhost/Radius/Scripts/REX-Accounting-Script ]
Name = REX-Accounting-Script
Description =
Language = REX
Filename = librexacctscript.so
EntryPoint = RexAccountingScript
InitEntryPoint = InitRexAccountingScript
InitEntryPointArgs = "-f Accounting -t 16:20 -s 100k -o
libRexAcctScript.so:DropAcctOnOff"
```

This example causes RAS to write to a file called **Accounting.log** (in the **logs** directory of the installation tree). The file rolls every day at 4:20pm (local time), as well as whenever it grows larger than 100k in size. RAS also runs the **DropAcctOnOff** script against every packet, after it has processed the packet.