



APPENDIX **A**

ctastat Diagnostic Tool

CTA provides a utility for administrators to retrieve diagnostic information from CTA. This information includes a snapshot of the communication taking place between ACS and CTA. You can view posture information using this utility, including the last time a posture check was performed.

If you are troubleshooting an issue on a system, Cisco support (TAC) may ask you to run `ctastat` to retrieve information. You must be working locally on the system in order to run `ctastat`.

This appendix contains these sections:

- [Running the ctastat Utility, page A-2](#)
 - [Running ctastat on a Linux Operating System, page A-2](#)
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Running the ctastat Utility

The ctastat utility runs using a command line interface (CLI). The utility is available for both Windows and Linux operating systems.

Running ctastat on a Linux Operating System

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- Step 1** Open a terminal window.
 - Step 2** Change the directory to the /opt/CiscoTrustAgent/sbin directory.
 - Step 3** At the prompt type **./ctastat** and press <Enter>. ctastat displays its output in the terminal window.

Running ctastat on a Mac OS X Operating System

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- Step 1** Open a terminal window.
 - Step 2** Change the directory to the /opt/CiscoTrustAgent/sbin directory.
 - Step 3** At the prompt type **./ctastat** and press <Enter>. ctastat displays its output in the terminal window.

Running ctastat on a Windows Operating System

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- Step 1** Open a command prompt window.
 - Step 2** Change the directory to the Program Files\CiscoSystems\CiscoTrustAgent directory.
 - Step 3** At the prompt type, **ctastat.exe** and press <Enter>. ctastat displays its output in the terminal window.

ctastat Utility Output

The output from the ctastat command provides general information about CTA, session information which describes the communication between CTA and ACS, and plugin information which summarizes the status of the posture plugins running on the system.

For an example of a ctastat output see, [Example A-1 on page A-4](#) and [Example A-2 on page A-5](#).

General CTA Information

The general CTA information provided in ctastat output is the local time the statistics were collected and the CTA version running on the system. [Example A-1 on page A-4](#) shows that the local time ctastat run was Friday, September 16, 2005 at 15:49:06. The CTA version is 2.0.0.26.

Session Information

The session information describes the communication between CTA and ACS. [Table A-1](#) describes the fields in the Session Information area of the output.

Table A-1 *Session Information fields from ctastat output*

Field name	Description
Session Number (Hex)	Session identification number
Session Type	Indicates communication using 802.1x or EAP over UDP (EoU) protocol.
IP Address	IP address and port id of Router/Switch when using EAP over UDP protocol.
Local MAC Address	MAC addresses of local network card when using 802.1x protocol.
Remote MAC Address:	MAC addresses of Router (or Switch) when using 802.1x protocol.
System Posture Token Value	Last reported posture token of overall system.

Table A-1 *Session Information fields from ctastat output (continued)*

Field name	Description
Received on	Time last system posture token was received.
Total Postures Received	Number of posture requests received.
Last SQ Response	Value of last status query response.
Plugin Vendor/Application:	Identifying number of plugin vendor and application. Value correlates with the information in the Plug-ins section of output.
Application Posture Token Value	Posture of the application
Received	The time the application posture token was received.
Posture Request last received	The last time the application posture credentials were requested.
Length of last response to posture request	Length of response to posture credential request measured in bytes.
Sent	The time the posture credentials were received.

Plugins Information

In the Plugins section of the ctastat output, the product vendor and application ID are listed. These numbers correlate with the information in the PluginVendor/Application field in the Session Information output.

ctastat Utility Sample Output

Example A-1 ctastat output for 802.1x connection between CTA and Cisco Secure ACS

CTA Statistics Reporting Tool

```
Cisco Trust Agent Statistics
Current Time: Fri Sep 16 15:49:06 2005
CTA Version: 2.0.0.26
```

Session Information

```
Session Number (Hex): 02000000
Session Type: 802.1X
    Local MAC Address: 0050DA2C7EBD
    Remote MAC Address: 00115DBE2BFF
System Posture Token Value: Healthy
    Received on: Fri Sep 16 15:48:14 2005
    Total Postures Received: 2
Plugin Vendor/Application: 9/1
    Application Posture Token Value: Healthy
        Received: Fri Sep 16 15:48:14 2005
    Posture Request last received: Fri Sep 16 15:48:14 2005
    Length of last response to Posture Req: 20
    Sent: Fri Sep 16 15:48:14 2005
```

Plug-ins:

```
Vendor: Cisco Systems
    Application ID: 1
        Status: Operational
    Application ID: 2
        Status: Operational
```

Example A-2 ctastat output for EAP over UDP connection between CTA and Cisco Secure ACS

CTA Statistics Reporting Tool

```
Cisco Trust Agent Statistics
Current Time: Tue Sep 27 19:11:18 2005
CTA Version: 2.0.0.26
```

Session Information

```
Session Number (Hex): 01000000
Session Type: EOU
    IP Address: 8.8.0.1:21862
System Posture Token Value: Healthy
    Received on: Mon Sep 26 11:42:14 2005
    Total Postures Received: 12
Last SQ Response was "No Status Change"
Plugin Vendor/Application: 9/1
    Application Posture Token Value: Healthy
        Received: Mon Sep 26 11:42:14 2005
    Posture Request last received: Mon Sep 26 11:42:14 2005
    Length of last response to Posture Req: 49
    Sent: Mon Sep 26 11:42:14 2005
Plugin Vendor/Application: 9/2
    Posture Request last received: Mon Sep 26 11:42:14 2005
```

■ ctastat Utility Output

Length of last response to Posture Req: 39
Sent: Mon Sep 26 11:42:14 2005

Plug-ins:

Vendor: Cisco Systems
Application ID: 1
Status: Operational
Application ID: 2
Status: Operational