

Registering SNMP Managers with the CWM Service Agent

Document ID: 13421

Introduction

Prerequisites

Requirements

Components Used

Conventions

CWM Service Agent Registration

Verify

Troubleshoot

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

The Cisco WAN Manager (CWM) Service Agent enables connection provisioning, inventory, and fault management capabilities that are based on Simple Network Management Protocol (SNMP) traps. The fault management facility enables external Operations Support Systems (OSS) to have a real-time status view of the network through a feed of traps from the CWM workstation. This document explains how to register a remote SNMP manager to the CWM Service Agent.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on CWM Software Releases 11.0, 12.0, and 15.0.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

CWM Service Agent Registration

If downstream SNMP managers register with the CWM Service Agent, they can obtain a trap feed. This is done through use of an SNMP-SET and should occur after the SNMP manager is active. The SNMP manager also must send a keep-alive with the CWM Service Agent once every 60 minutes to keep the registration active.

Note: In the event of a CWM downtime, it is up to the remote SNMP manager to reregister on the CWM Service Agent to get traps again.

The Service Agent is *not* part of the CWM main package, so it must be purchased as an extra.

1. On the SNMP manager, all CWM MIBs and traps should be loaded and integrated. The files provided are suitable for use with Hewlett–Packard OpenView (HP–OV). You can find the files in the CWM directory at `/usr/users/svplus/mibs`. Under that directory, all the specific MIB files named `*.mib` are required.

With HP–OV, use `/usr/users/svplus/OV/conf/C/StrataCom_trapd.conf`.

2. The Service Agent manages trap to forward with its RTMProxy component. This component forwards traps to registered SNMP managers that use the Robust Trap Mechanism (RTM) protocol. This mainly means that a sequence number allows managers to fetch missed traps. RTMProxy maintains a table called **trapConfigTable** that lists all the SNMP managers registered with the Service Agent for trap forwarding. For each entry, that table contains primarily:

- ◆ **managerRowStatus**: if set to 1 (addRow), this means RTMProxy must forward traps to this manager
- ◆ **managerPortNumber**: the User Datagram Protocol (UDP) port to which RTMProxy must forward the traps

3. Each entry is indexed with the SNMP Manager IP address. The registration is done with one **snmpset** request on the Service Agent. Here is an example of an **snmpset** request:

```
# snmpset -p 8161 -c private cwm-server managerPortNumber.192.99.88.101 integer 162
managerRowStatus.192.99.88.101 integer 1
stratacom.rtm.trapsConfig.trapConfigTable.trapConfigEntry.managerPortNumber.192.99.88.101
INTEGER: 162
stratacom.rtm.trapsConfig.trapConfigTable.trapConfigEntry.managerRowStatus.192.99.88.101
INTEGER: addRow
```

For more information, refer to the Cisco WAN Manager SNMP Service Agent Guide:

- CWM 11.0: Using the MIB – Fault Management Tables
- CWM 12.0: Trap Management
- CWM 15.0: Trap Management

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific information available to troubleshoot this configuration.

NetPro Discussion Forums – Featured Conversations

Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

| |
|--|
| NetPro Discussion Forums – Featured Conversations for Network Management |
|--|

| |
|--|
| Network Infrastructure: Network Management |
|--|

Related Information

- [Cisco WAN Manager Technical Tips](#)
 - [Cisco WAN Manager Documentation](#)
 - [Cisco WAN Manager Patches](#)
 - [Technical Support – Cisco Systems](#)
-

[Contacts & Feedback](#) | [Help](#) | [Site Map](#)

© 2008 – 2009 Cisco Systems, Inc. All rights reserved. [Terms & Conditions](#) | [Privacy Statement](#) | [Cookie Policy](#) | [Trademarks of Cisco Systems, Inc.](#)

Updated: Oct 26, 2005

Document ID: 13421
