

FHRP - HSRP MIB

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Information About FHRP - HSRP MIB

HSRP MIB Traps

HSRP MIB supports Simple Network Management Protocol (SNMP) Get operations, to allow network devices to get reports about HSRP groups in a network from the network management station.

Enabling HSRP MIB trap support is performed through the CLI, and the MIB is used for getting the reports. A trap notifies the network management station when a device leaves or enters the active or standby state. When an entry is configured from the CLI, the RowStatus for that group in the MIB immediately goes to the active state.

Cisco software supports a read-only version of the MIB, and set operations are not supported.

This functionality supports four MIB tables, as follows:

- cHsrpGrpEntry table defined in CISCO-HSRP-MIB.my
- cHsrpExtIfTrackedEntry, defined in CISCO-HSRP-EXT-MIB.my
- cHsrpExtSecAddrEntry, defined in CISCO-HSRP-EXT-MIB.my
- cHsrpExtIfEntry defined in CISCO-HSRP-EXT-MIB.my

The cHsrpGrpEntry table consists of all the group information defined in RFC 2281, *Cisco Hot Standby Router Protocol*; the other tables consist of the Cisco extensions to RFC 2281, which are defined in CISCO-HSRP-EXT-MIB.my.

How to Configure FHRP - HSRP MIB

Enabling HSRP MIB Traps

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **snmp-server enable traps hsrp**
4. **snmp-server host** *host community-string* **hsrp**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	**enable** **Example:** `Device> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 3	**snmp-server enable traps hsrp** **Example:** `Device(config)# snmp-server enable traps hsrp`	Enables the device to send SNMP traps and informs, and HSRP notifications.
Step 4	**snmp-server host** *host community-string* **hsrp** **Example:** `Device(config)# snmp-server host myhost.comp.com public hsrp`	Specifies the recipient of an SNMP notification operation, and that HSRP notifications be sent to the host.

Configuration Examples for FHRP - HSRP MIB

Example: Enabling HSRP MIB Traps

The following examples show how to configure HSRP on two devices and enable the HSRP MIB trap support functionality. As in many environments, one device is preferred as the active one. To configure a device's preference as the active device, configure the device at a higher priority level and enable preemption. In the following example, the active device is referred to as the primary device. The second device is referred to as the backup device:

Device A

```
Device(config)# interface GigabitEthernet 0/0/0
Device(config-if)# ip address 10.1.1.1 255.255.0.0
Device(config-if)# standby priority 200
Device(config-if)# standby preempt
Device(config-if)# standby ip 10.1.1.3
Device(config-if)# exit
Device(config)# snmp-server enable traps hsrp
Device(config)# snmp-server host yourhost.cisco.com public hsrp
```

Device B

```
Device(config)#interface GigabitEthernet 1/0/0
Device(config-if)# ip address 10.1.1.2 255.255.0.0
Device(config-if)#  standby priority 101
Device(config-if)# standby ip 10.1.1.3
Device(config-if)# exit
Device(config)# snmp-server enable traps hsrp
Device(config)# snmp-server host myhost.cisco.com public hsrp
```

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
HSRP commands: complete command syntax, command mode, command history, defaults, usage guidelines, and examples	*Cisco IOS First Hop redundancy Protocols Command Reference*
HSRP for IPv6	"HSRP for IPv6" module
Troubleshooting HSRP	Hot Standby Router Protocol: Frequently Asked Questions

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	--

MIBs

MIBs	MIBs Link
CISCO-HSRP-MIB CISCO-HSRP-EXT-MIB	To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

RFCs

RFCs	Title
RFC 792	*Internet Control Message Protocol*
RFC 1828	*IP Authentication Using Keyed MD5*
RFC 2281	*Cisco Hot Standby Router Protocol*

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for FHRP - HSRP-MIB

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.