



INTELLIGENT EVENT MODULE BASICS

The HP StorageWorks HSV 3.0 SNMP Intelligent Event Module (IEM) enables you to automate real-time monitoring of HP® StorageWorks™ HSV 3.0 controllers and capture the critical information you need for effective enterprise management.

The HP StorageWorks HSV 3.0 SNMP IEM provides *ConsoleWorks*® with a watch-list of text messages drawn from the object identifiers (OIDs) of the StorageWorks HSV 3.0 devices. *ConsoleWorks* watches for these messages in the SNMP notifications (*traps*) received from agents running on your managed devices. These messages are called Events.

Events

When *ConsoleWorks* detects an Event, it alerts you to the Event as it is happening, records the circumstances surrounding the Event, and automatically performs the default or customer-configured responses associated with that Event.

Scans

IEMs come with Events pre-arranged in logical groupings, called Scans™. Working with a Scan—or a combination of Scans—instead of hundreds of individual Events simplifies managing Events across your enterprise.

HP STORAGEWORKS HSV 3.0 SNMP IEM AT A GLANCE

| | |
|--------------------------------------|---|
| Events: | 1120 |
| Scans: | 1 Master 4 Event Severity |
| Filename (Blank Delimited): | <code>cw_iemhp_hsv_snmp_blank-0002.bin</code> |
| Filename (Parenthesis Delimited): | <code>cw_iemhp_hsv_snmp_paren-0002.bin</code> |
| License Required: | <code>CONWRKS-DB-HSVSNMP.lic</code> |
| Connector Required: | SNMP Trap Receiver or Pseudo Console |

USING THE HP STORAGEWORKS HSV 3.0 SNMP IEM

To use this IEM, complete the following tasks:

1. Download the IEM from the TDi web site.
2. Import the IEM into *ConsoleWorks*.
3. Associate the Scans from the IEM with the devices you want to manage.

To Download the IEM

1. Install the license for the HP StorageWorks HSV 3.0 SNMP IEM. To obtain this license, contact your TDi Solutions Team Manager (sales@tditx.com).
2. Move to the TDi web site (www.tditx.com/support_iemdownloads.asp).
3. On the Product Downloads page, locate and click whichever of the following links is most compatible with your environment:
 - For use with the TDi Trap Receiver, click **HP (StorageWorks) HSV 3.0 (SNMP) Parenthesis Delimited**
 - For use with a 3rd-party trap receiver, click **HP (StorageWorks) HSV 3.0 (SNMP) Blank Delimited**
4. In the Connect to support2.tditx.com dialog box, enter your User name and Password, and click **OK**. To obtain a User name and Password, contact TDi Support (support@tditx.com).
5. Save the file (`cw_iem-hp_hsv_snmp_paren-0002.bin` or `cw_iem-hp_hsv_snmp_blank-0002.bin`) to a directory accessible from your client workstation.

To Import the IEM

1. On the *ConsoleWorks* main menu, click **Admin > Database > Import IEM**.
2. On the Import IEM page, click **Browse**.
3. On the Choose file dialog box, locate and double-click `cw_iem-hp_hsv_snmp_paren-0002.bin` or `cw_iem-hp_hsv_snmp_blank-0002.bin`.
4. On the Import IEM page, click **Import IEM**, and wait for the **IEM import completed** message to appear on the page before associating the IEM's Scans.



To Associate the Scans

Associate the Scans with the devices you want ConsoleWorks to monitor. When you associate Scans with a device, you are specifying that ConsoleWorks scan the data streams of that device for the Events contained in the Scans.

Example: To associate the HSVSNMP_CRITICAL Scan

1. On the ConsoleWorks main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **HSVSNMP_CRITICAL**.
3. On the Scan: HSVSNMP_CRITICAL page, in the Unassociated Consoles column, select the check boxes next to the names of the managed devices you want to associate with the Scan.
4. Click **Update Scan**.

For detailed instructions on associating Scans, please refer to the ConsoleWorks user's guide.

SCANS AVAILABLE IN THE HP STORAGEWORKS HSV 3.0 SNMP IEM

The HP StorageWorks HSV 3.0 SNMP IEM contains a Master Scan and four Event Severity Scans.

Master Scan

The Master Scan, **HSVSNMP**, is the top-level Scan. It references all the other Scans in the IEM. When you associate the Master Scan with a device, you are specifying that ConsoleWorks scan the data streams of that device for any of the IEM's 1,120 Events.

Event Severity Scan

The HP StorageWorks HSV 3.0 SNMP IEM contains four Event Severity Scans. Use one or more of these Scans to monitor SNMP traps from an HSV device for Events based on their Severity levels.

The IEM provides the following Event Severity Scans:

- HSVSNMP_CRITICAL 134 Events
- HSVSNMP_MAJOR 1 Event
- HSVSNMP_MINOR 164 Events
- HSVSNMP_INFORMATIONAL 821 Events

SAMPLE HP STORAGEWORKS HSV 3.0 SNMP IEM EVENT

The HP StorageWorks HSV 3.0 SNMP IEM provides you with names, message texts, Severity ratings, explanations, *Type* keywords, trap parameters, and user actions for Events produced by HSV controllers.

The following actual Event illustrates the information you receive for each Event in the HP StorageWorks HSV 3.0 SNMP IEM.

Sample Event

Name: sCellEventTrap_9_12

Message: sCellName-TimeDate %s : SWCID %d : ECode: %d : CAC %d : EIP %d

Severity: CRITICAL

Explanation: Failure or failure imminent. The '1' blower located within the HSV110 controller identified in the handle field is running slower than the lowest acceptable speed. The secondary_id field contains the '1' blower assembly internal identifier value: 1. The value.ul1 field contains the current speed of the '1' blower. The value.ul2 field contains the lowest acceptable speed for the '1' blower.

Type: StorageCell Event

Trap Parameters: VARIABLES { sCellNameDateTime, sCellSWComponent, sCellECode, sCellCAC, sCellEIP }

Action: Review the description above with the value of the trap arguments in mind to determine the cause, meaning and course of action of this trap.

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