Getting Started with Notifications

The Notifications application is used to monitor switch activity and configure trap management tasks, including:

- Monitoring switch activity through the Trap Notifications Table.
- Handling basic Trap Management tasks, such as changing the maximum number of notifications displayed on the client, clearing entries from the Trap Notifications table, acknowledging a trap, exporting traps, etc.
- Configuring Automatic Trap Responders. OmniVista can be configured to send an e-mail or run an external process on the OmniVista server when a specified trap is received. The trap can be specified by severity level or through the use of filters.



The Notifications Application

Notifications Tree

Use the Notifications tree to navigate through the application and find the appropriate window to work from. The Notifications application has three main windows:

- Click the **Responders** icon to display the Automatic Trap Responder window. This window is used to configure the response (if any) that you want OmniVista to take when a specified trap is received on the OmniVista server. The trap can be specified by severity level or through the use of filters. The response can take the form of an e-mail sent to a user-specified address and/or the execution of an external program or script on the OmniVista server.
- Click the **Trap Definition** icon to display the Trap Definitions window. This window displays a list of all supported traps, as defined in the MIBs. It gives a brief description of each trap and allows you to edit a trap's severity level and trap synopsis if desired.
- Click the All icon to display the Trap Notifications window displaying the Notifications tab and the Switches tab. The Trap Notifications tab displays a list of traps received from switches that are visible to the logged-in user. The list can be configured to display notifications for a single switch,

or for all switches. To learn how to configure switches to send traps, see the Configure Traps Help. The Switches tab displays a list of all the discovered switches in a tabular form.

Pop-Up Menus

Pop-Up Menus are available in the Trap Notifications tree and in the Trap Notifications table. These menus are used to perform functions within the Notification application (e.g., configure traps, acknowledge traps).

Using Pop-Up Menus

Pop-up menus are used to perform functions within the Notification application (e.g., configure traps, acknowledge traps). Pop-up menus are available in the Notifications Tree and in the Trap Notifications Table.

Note: A new feature starting from Release 2.4 allows you to manually poll an individual switch by right-clicking the switch in the Notifications tree or the Notifications table and selecting **Poll for Traps** from the pop-up menu. The switch will immediately be polled for traps. See the Topology application Help for a description of each pop-up menu item.

Notifications Tree Pop-Up Menu

Right-click any switch in the Notifications tree to display the pop-up menu, shown below. Different menu items display on the pop-up menu for AOS switches, XOS switches, and third-party switches. Refer to the Topology application Help for information on individual pop-up menu commands.

ile Application	ns View Help	o 😡	Window:0]	
 Notifications Respond Trap Defi All F I (10.0. 	ers nition 0.0/8)	Notification Notification Nam tempAlarm	s Switches s for All Switches e 5 Temperature e	Synopsis cceeded the threshold	0 🕄 🗟 🖨 🗐 😶 🖬 Agent Agenti 10.255.11.119 no-nam
	Current Window New Window Ping Node Poll Node Configure Traps Poll for Traps Save to Working Pelant		Device Status Locate on Map Health SSH Statistics Locate End-Stations Backup Configuratio	Present. Power Supply 2: 89 port 2 t 2 due to invalid ID or password Spanning Tree root hanged from 00 00 5e 00 01 02	10.255.11.119 no-nam 10.255.11.119 no-nam 10.255.11.119 no-nam 10.255.11.119 no-nam 10.255.11.119 no-nam 10.255.11.119 no-nam 10.255.11.119 No-nam
	Copy Certified Tr Copy Working Tr Inventory Mib Browser WebPage 0.255.11.228 0.255.11.230 0.255.11.231	o Working o Certified			
	0.255.11.240 0.255.11.251 0.255.11.252 0.255.11.253		1,000	Change Max Cigar Help	

The Notifications Tree Pop-Up Menu

Trap Notifications Table Pop-Up Menu

Right-click any notification (or group of notifications) to display the pop-up menu, shown below. Different menu items are displayed in the pop-up menu for AOS switches, XOS switches, and third-party switches. The **Copy**, **Acknowledge**, **Renounce Acknowledgement**, and **Delete** menu items are used to manage traps. Click here for further information on these menu items. Refer to the Topology application Help for information on all other pop-up menu commands.

ConniVista 2500 - Application: N File Applications View Help	otifications Wind	low:0			<u>_ ×</u>
	> 😵 🚘 A				a
Provide a construction of the construction of	Notifications	Switches			
Trap Definition	Notifications for	All Switches		1000/1000 🐯 🗄	
	Name		Synopsis		Agent
10.255 10.3	coldStart	Cold start			10.255.11.119
10.255.11.102	warmStart	CODV			10.255.11.119
10.255.11.118	warmStart	Acknowladna	_		10.255.11.240
10.255.11.119	systemEvent	Acknowledge	rred. Trap: 3		10.255.11.240
- 10.255.11.120	systemEvent	Renounce Acknowledgement	rred. Trap: 2		10.255.11.119
- 😥 10.255.11.129	temparamo	Delete	ethreshold	Const Employed Lang	10.255.11.240
- 😥 10.255.11.131	macDuplicate	Current Window	From 00.00 ft	5e 00.04.02	10.255.13.101
10.255.11.132	1	New Mindow		36 00 01 02	10.2.33.13.101
10.255.11.151	A.T	New Williow			
10.255.11.153		Ping Node			
10.255.11.197		Poll Node			
10.255.11.201		Configure Traps			
10.255.11.202		Save to Working			
- 10.255.11.207		Reboat			
- 20 10.255.11.224		Come Contificat Yo Minching			
- 😥 10.255.11.225		Copy Certified To working			
10.255.11.227		Copy Working To Certified			
10.255.11.228		Inventory			
10.255.11.230		Mib Browser			
10.255.11.231		MehDane			
10.255.11.240		Cuitobleman	_		
10.255.11.252		Switchinanager	max Cle	ar Help	
10.255.11.253					

The Trap Notifications Table Pop-Up Menu

The Trap Definition Window

The Trap Definition window displays a list of all the supported traps, as defined in the MIBs. Use the Trap Definitions window to:

- View detailed information about individual traps
- Edit a trap's Synopsis and Severity fields
- Reset trap Synopsis and Severity fields to the installation defaults.

To access the Trap Definitions pane, click **Trap Definition** in the Notifications tree. You can also select **Trap Definition** from the drop-down list at the top of the window.

		T	ne Trap (Definitio	on Wir	ndow				
	💋 OmniVista 2500 - Application:	Notifications	Window:0					_		
	File Applications View Help									
Click on Trap		0 💡	Trap Definitio	n 💌						
Definition	Notifications	Trap Definitio	ns List				1369/1369			
to open window	Trap Definition	N	lame	Severity		Synd	opsis	Definition		
		alaDoSTrap	Transhoorhod	Normal	Detected	DOS attack. D	JoS Type: \$1, Number	Default		_
	10.255 10.3	alaCvMaiorTr	anabsorbed	Major	Absorbed	1 \$1 fran \$5 fir	mes: \$4	Default	-	Trap
	- 10.255.11.102	alaOvMinorTr	apAbsorbed	Minor	Absorbed	d \$1 trap \$5 tir	mes: \$4	Default		Definitions
	- 10.255.11.118	alaOvNormal	TrapAbsorbed	Normal	Absorbed	d \$1 trap \$5 tir	mes: \$4	Default		List
	- 10.255.11.119	alaOwVarnin	TrapAbsorbed	Warning	Absorbed	d \$1 trap \$5 tir	mes: \$4	Default		
	- 10.255.11.120	alaStackMgrE	adMixTrap	Normal	The elem	nent identified	by slot \$1 will enter p	Default	Ŧ	
	- 😥 10.255.11.129	A.T.							12224	
	10.255.11.131	View Trap D	efinition							
	10.255.11.132	Trap Info	Details							
	- 10.255.11.153	Name:	alaOvCriticalTra	pAbsorbed		Oid:	1.3.6.1.4.1.6486.800	1321911205	וור	
	- 🙀 10.255.11.157	Conoric M	0			Spacific kt	0			
	10.255.11.198	OCHCIR IG.	0			Specific in.	0			
	10.255.11.201	Severity:	Critical		*					View/Edit
	10.255.11.202		Abcorbed \$1 tr	n \$5 times: \$4						Pane
		Omencies	Public and a line	ip eo unies, av						
	10.255.11.225	synopsis:								
	10.255.11.227		J							
	- 🗑 10.255.11.228									
	- 🗑 10.255.11.230									
	- 10.255.11.231									
	- 10.255.11.240	,								
	10.255.11.251		-	et Unda	to P	onet 0	unha Hole			
	10.255.11.252		Ē	upua	IC E	eser A	phia Geth			
	10.255.11.253									

The Trap Definition pane includes two sections: the Trap Definitions List and the View/Edit Pane.

Viewing a Trap Definition

Use the scroll bar in the **Trap Definitions List** table to glance through all of the traps. If you only want to see a certain group of traps (e.g., all ATM traps, or all traps with severity level "warning"), you can do so by creating and applying a filter. For details on how to do this, see the Filter Help, which is available when you click on the Filter icon at the top of the Trap Definitions List.

To view information about a single trap, select the trap in the **Trap Definitions List** table, then view the information in the View/Edit pane. The View/Edit pane consists of two tabs, the Trap Info tab and the Details tab.

Trap Info Tab

The Trap Info tab displays the trap definition fields.

Name. Name of the trap, as defined in the MIB.

Generic ID. Generic trap ID number. Only SNMPv1 traps make use of a generic ID. For SNMPv2 and SNMPv3 traps, this field will show a value of zero.

Severity. Severity level assigned to the trap as defined in the Notifications Application's Trap Definitions window. Possible values are: Normal, Warning, Minor, Major, and Critical. If desired, you can edit the Severity Level (see Editing Trap Severity).

OID. Trap object identifier number.

Specific ID. Trap specific ID number. Only SNMPv1 traps make use of a specific ID. For SNMPv2 and SNMPv3 traps, this field will show a value of zero.

Synopsis. Text description of the trap. Note that certain traps have associated SNMP trap variables. If a trap synopsis includes a dollar sign symbol, this means that the trap has one or more associated variables. Right-click in the Synopsis field to see a drop-down list of the associated trap variables. The drop-down list is accessible whether you are viewing or editing a trap.

Note: If the **Synopsis** field of a trap displays a '?', it denotes that the trap received does not include all the variables as defined by the MIB. If this occurs, please refer to the trap details and the synopsis definition of the trap.

	Trap Defin	ition 💌					-			
Responders	finitions List				1369/1369	888	10			
Trap Definition	Name	Severity		Sync	psis	Definition	T			
All alaDoS	Trap	Normal	Detected	DoS attack D	oS Type: \$1, Number	Default				
B (10.0.0.0/8) alaOvC	riticalTrapAbsorbed	Critical	Absorbed	1 \$1 trap \$5 tir	nes: \$4	Default				
- 😥 10.255.10.3 alaOvM	ajorTrapAbsorbed	Major	Absorbed	1 \$1 trap \$5 tir	nes:\$4	Default				
10.255.11.102 alaOvM	inorTrapAbsorbed	Minor	Absorbed	1 \$1 trap \$5 tir	nes: \$4	Default	4			
10.255.11.118 alaOvN	ormalTrapAbsorber	i Normal	Absorbed	1 \$1 trap \$5 tir	nes: \$4	Default	_			
10.255.11.119 alaOVA	/amingTrapAbsorbe	d Warning	Absorbed	1 \$1 trap \$5 tir	nes: \$4	Default	_			
10.255.11.120 alaStac	kMgrBadMixTrap	Normal	The elem	ient identified	by slot \$1 will enter p	Default				
10.255.11.131 View	View Trap Definition									
10.255.11.151	Info Details	Details								
- 10.255.11.153 Name	alaOvCritical	TrapAbsorbed		Oid:	1.3.6.1.4.1.6486.800.1	.3.2.19.1.1.2.0	.5			
Gener	ic ld: 0			Specific ld:	0					
10.255.11.201 Severi	ity: Critical		-							
10.255.11.207	Absorbed \$1	trap \$5 times: \$4					1			
- == 10.255.11.224 Synor	usis:		\$1 = alaO	vTrapAbsorO	rigName					
- 🗑 10.255.11.225	1999 B		\$2 = alaO	VTrapAbsorO	rigOID					
10.255.11.227	L		13 - alaO	Tranébeoro	rinCtamp					
- M 10 255 11 228			3J - diaU	vir apvusor o	nyəramp					
A LOUGOOL LEED			\$4 = alaO	vTrapAbsorO	rigSummary					
10.255.11.230			\$5 = alaO	vTrapAbsorC	ounter		_			
10.255.11.230										
10.255.11.230 10.255.11.231 10.255.11.240		11.11	\$6 = alaO	vTrapAbsorTi	ime 🔺					
	6	Edit Undat	\$6 = alaO	vTrapAbsorTi	me Heln					
		Edit Updat	\$6 = alaO le B	vTrapAbsorTi eset Ar	ine ipły Belp					

a list of associated trap variables.

Details Tab

The **Details** tab displays the description of the selected trap as defined in the MIB. It also displays the name and the description of the variables associated with that trap.

Applications View Help				
	🖌 😵 Tra	ap Definition	1 v	3
Notifications	Tran Definitions I	ist	A 🕾 😒 (0001)0001	
Tran Definition	Name	Revenity	Smonsis	
SQ All	abortTtp	Normal	aluebaa	d.
9-17 (10.0.0.0/8)	accountEvent	Normal	Accounting file, \$1, ready for collection, \$2 files are ready for collection	C
10 255.10.3	accountEvent13	Normal	Accounting file, \$1, ready for collection, \$2 files are ready for collection	C
10.255.11.102	accountEvent3	Normal	Accounting file, \$1, ready for collection. \$2 files are ready for collection	E
10.255.11.118	accountEvent5	Normal	Accounting file, \$1, ready for collection. \$2 files are ready for collection	6
- 10.255.11.119	4	44 4	· · · · · · · · · · · · · · · · · · ·	11
10.255.11.120	A T		-	
10.255.11.129	View Trap Defin	nition		
10.255.11.131	Termindo) of all o		
10.255.11.132	Trap mile 1	Perdits		_
10.255.11.151	Description:	An account the switch.	event is generated to signal that a new accounting file is available or	1
10.255.11.198 10.255.11.201 10.255.11.202 10.255.11.202	chas Accoun	tName	The fully qualified path name of the most recently terminated accounting file. This object is not intended to be accessed directly. It is defined for use in accounting-related traps.	
10.255.11.224 10.255.11.225 10.255.11.227	chas Accoun	tFileCount	The number of terminated accounting files awaiting collection (and removal) by an external accounting collection agent.	1
10.255.11.228 10.255.11.230 10.255.11.231 10.255.11.240 10.255.11.251 10.255.11.251		Edit	Indate Reest finds Hele	

Editing a Trap Definition

To edit a trap definition, select the trap in the **Trap Definitions List** table, then click **Edit**. The View/Edit pane changes from "View Trap Definition" to "Edit Trap Definition" and the editable fields become enabled. The only fields that are editable are Synopsis and Severity. To edit these fields you must have Administrative privileges (admin or netadmin).

	Currin	y u map c	Jerminion		7
File Applications View Help	Notifications Window:0			<u> ×</u>	1
	🤷 🎯 Trap Definiti	on 💌		5	
Notifications Trap Definition Tr	Trap Definitions List Name alaOxCriticalTrapAbsorbed alaOxArtitrapAbsorbed alaOxMinorTrapAbsorbed alaOxMinorTrapAbsorbed alaOxNamingTrapAbsorbed alaOx	Severity Normai I Critical / Major / Normai / Normai / Normai /	Synopsis Detected DoS attack. DoS Type: 51, N. Absorbed \$! tray \$5 times: \$4 Specific Id: 0 did: 1.3.6.1.4.1.6 Specific Id: 0 Image: State Stat	9/1369 C Pefault Default Default Default Default Default Default Construction 486.800.1.2.1.23.1.1.5.1 c: \$4.	2. Click inside the Synopsis field and edit the field.

Editing a Trap Definition

For more information on editing the Synopsis and Severity fields, see Editing Trap Severity and Editing a Trap Synopsis.

Editing Trap Severity

To change the severity level, select a severity level from the **Severity** drop-down list. Click the **OK** button to save the change, then click the **Apply** button to apply the changes to the server. You must have Administrative privileges to edit this field (admin or netadmin).

Editing a Trap Synopsis

To edit the trap synopsis, click the Synopsis field. The value of SNMP variables contained in the trap can be displayed in the Synopsis. You can even perform simple mathematical calculations on a variable value and display the result in the Synopsis. Click the **OK** button to save the change, then click the **Apply** button to apply the changes to the server. You must have Administrative privileges to edit this field (admin or netadmin).

Displaying SNMP Variable Values in the Synopsis

As previously mentioned, if a trap contains SNMP variables, a list of the variable names is displayed when you right-click the Synopsis field. The variable values for a given trap are always contained in the trap in the same order. This corresponds to the order of the variable names listed when you right-click in the Synopsis field. A variable value is referenced for display in the Synopsis by entering a dollar sign (\$) followed by the desired variable's sequence number, where one (1) is the first variable.

For example, assume an instance of the vlanChange trap (which has three SNMP variables) where:

for SNMP Variable Name:	the Sequence Number is:	the Variable Value is:
atVLANGroupId	\$1	5
atVLANId	\$2	9
atVLANAdminStatus	\$3	disabled

where the Synopsis field for this trap is:

VLAN \$2 group \$1 state changed to \$3

the Synopsis displayed for this instance of the trap in the Trap Notifications Table looks like this:

VLAN 9 group 5 state changed to disabled

Performing Computations on SNMP Variable Values in the Synopsis

You can perform simple mathematical calculations on a variable value and display the result in the Synopsis field. The supported operations are:

Operator	Operation
*	multiplication
/	division
%	remainder
+	addition
-	subtraction

In addition, open and close parentheses can be used to change the standard Algebraic order of operations. A mathematical expression is entered in the Synopsis field enclosed by an open and a close curly brace, i.e., "{" and "}".

For example, for some Alcatel object IDs, the linkDown trap's ifIndex SNMP variable value is equal to the slot number times 1000, plus the port number. Assume an instance of this trap where ifIndex is equal to 5009 and the Synopsis field:

Link Down: slot {\$1/1000} port {\$1%1000}

the Synopsis displayed for this instance of the trap in Notifications List looks like this:

Link Down: slot 5 port 9

When Does an Edited Synopsis Take Effect?

Changes made to Synopsis are effective immediately. Notifications logged on the OmniVista server are stored in raw data format. Each time the Notifications List is displayed, the traps are formatted for display using the current Synopsis. Therefore, if, for example, you edit the vlanChange trap Synopsis after vlanChange traps were logged on the server, they will be displayed using the new Synopsis format.

Resetting a Trap Definition to the Installation Default

If you wish to reset one or more trap definition to the factory-installed defaults, select the trap(s) in the Trap Definitions List and click the **Reset** button. Then, click the **Apply** button to write the changes to the OmniVista server. Changes that you made to other trap definitions will remain in effect.

The Trap Notifications Window

The Trap Notifications window consists of two tabs, **Notifications** and **Switches**. The Notifications tab displays alarms and traps (more generically referred to as "notifications"). The Switches tab displays a list of all the discovered switches with a trap count total for each switch.

The Notifications Tab

In the Notifications tab, you can view notifications for all switches, switches in a subnet, or a single switch by selecting the option in the Notifications tree.

- To display notifications for all known switches, click **All** in the Notifications tree (as shown below).
- To display notifications for all switches in a subnet, click the subnet in the Notifications tree.
- To display notifications for an individual switch, click on the switch in the Notifications tree. OmniVista displays all traps received from any of the switch's valid IP addresses.

Notifications Switches Presponders Trap Definition Image: Trap Definition Name Image: Trap Definition A coldStart Image: Trap Definition A coldStart Imag		<u></u>
Image: Synopsis ColdStart	Notifications Notifications Switches	
Name Link down on slot 0 port 88 InikOver Link up on slot 0 port 88 InikOver ColdStart Occession ColdStart Verme C	Notifications for All Switches 1000/1000 😒 🖘 🖨 💹	
Interpretation Inter	Name Name	
10.255.11.02 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.10 10.255.11.20 10.00 Change Max Clear Help Managemen Buttons	Ted 10.255/10.3	_
In 10.25511.118 Unitstant Unitstant If op In 2.25511.118 SystemEvent5 Potentially fatal error occurred. Trap: 2 In 2.2511.128 In 2.25511.128 SystemEvent5 Potentially fatal error occurred. Trap: 2 In 2.2511.128 In 2.25511.128 InterpAlarm5 Temperature exceeded the threshold InterpAlarm5 In 2.25511.131 InterpAlarm5 Temperature exceeded the threshold InterpAlarm5 In 2.25511.132 InterpAlarm5 Temperature exceeded the threshold InterpAlarm5 In 2.25511.201 InterpAlarm5 Temperature exceeded the threshold InterpAlarm5 In 2.25511.201 InterpAlarm5 Temperature exceeded the threshold Trop In 2.25511.201 InterpAlarm5 Temperature exceeded the threshold Trop In 2.25511.201 Name	- 10.255.11.102	
In 2255.11.129 System/Vent5 Potentially fatal error occurred. Trap: 2 No tification In 2255.11.129 Importance exceeded the threshold Importance exceeded the threshold Importance In 2255.11.129 Importance exceeded the threshold Importance Importance In 2255.11.129 Importance Importance Importance Importance In 2255.11.129 Importance Importance Importance Importance Importance In 2255.11.129 Importance Importance Importance Importance Importance In 2255.11.201 Importance Importance Importance Importance Importance In 2255.11.201 In 2255.11.202 Importance Importance Importance Importance Importance Importance In 2255.11.201 In 2255.11.201 In 2255.11.201 Importance	- 10.255.11.118 Colosian Colosian	Trap
in 0.255.11.120 in 0.255.11.121 in 0.255.11.121 in 0.255.11.131 in 0.255.11.131 in 0.255.11.151 in 0.255.11.151 in 0.255.11.151 in 0.255.11.151 in 0.255.11.151 in 0.255.11.151 in 0.255.11.151 in 0.255.11.201 in 0.255.11.201 in 0.255.11.202 in 0.255.11.201 in 0.255.11.201 in 0.255.11.201 in 0.255.11.201 in 0.255.11.201 in 0.255.11.224 Agent: In 0.255.11.119 Agent: In 0.255.11.215 in 0.255.11.119 in 0.255.11.221 in 0.255.11.119 in 0.255.11.251 in 0.00 in	- 10.255.11.119 warmEvent5 Detentially fatal error occurred Traw 2	
In 0.255.11.129 Inodule Change5 Module invalid inserted or removed from slot 3 subunit hsm1 In 0.255.11.131 Inodule Change5 Module invalid inserted or removed from slot 3 subunit hsm1 In 0.255.11.131 Inodule Change5 Module invalid inserted or removed from slot 3 subunit hsm1 In 0.255.11.131 Inodule Change5 Module invalid inserted or removed from slot 3 subunit hsm1 In 0.255.11.131 Inodule Change6 Inodule Change6 In 0.255.11.131 Inodule Change6 Inodule Change6 In 0.255.11.201 Inodule Invalid inserted or removed from slot 3 subunit hsm1 Inodule Change6 In 0.255.11.201 Inodule Invalid inserted or removed from slot 3 subunit hsm1 Inodule Change6 In 0.255.11.201 Inodule Invalid inserted or removed from slot 3 subunit hsm1 Inodule Change6 In 0.255.11.201 Inodule Invalid inserted or removed from slot 3 subunit hsm1 Inodule Change6 In 0.255.11.201 Inode Int is reinitializing itself such that the agent's configuration or the protocol entity is reinitializing itself such that the agent's configuration or the protocol entity is reinitializing itself such that the agent in 0.255.11.201 Inode Interprise Induce Invalid inserted or removed itself such that the agent is non-namel Interprise Induce Invalid inserted or Interprise Induce Invalid inserted or Interprise Induce Invalid inserted or Interprise Induce Invalid inserte	I 10.255.11.120 temperature exceeded the threshold	Table
In 10.255.11.131 ImmpAlarm5 Temperature exceeded the threshold In 10.255.11.201 Imme Imme Imme In 10.255.11.212 Imme Imme Imme Imme In 10.255.11.213 Imme Imme Imme Imme Imme In 10.255.11.213 Imme Imme Imme Imme Imme Imme In 10.255.11.251 Imme Im	10.255.11.129 module Change5 Module invalid inserted or removed from slot 3 subunit hsm1	- I ubic
10.255.11.132 Image: Cold start 10.255.11.151 Synopsis: Cold start 10.255.11.157 Description: A coldStart trap signifies that the sending protocol entity is reinitializing itself such that the agent's configuration or the protocol entity implementation may be altered. Trap Description Pane 10.255.11.201 Image: ColdStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Agent: 10.255.11.201 Trap Description Pane 10.255.11.201 Image: ColdStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Agent: 10.255.11.201 Trap Description Pane 10.255.11.201 Image: ColdStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Agent: 10.255.11.201 Trap Managemen Buttons 10.255.11.201 Image: ColdStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Agent: 10.255.11.201 Trap Managemen Buttons 10.255.11.201 Image: ColdStart Clear Help Trap Managemen Buttons Trap Managemen Buttons 10.255.11.201 Image: Clear Help Trap Managemen Buttons Status and Notification Pane	- tel 10.255.11.131 tempAlarm5 Temperature exceeded the threshold	
10.25511.151 10.25511.151 10.25511.157 10.25511.157 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.202 10.25511.201 10.25511.202 10.25511.203 10.25511.204 10.25511.205 10.25511.207 10.25511.208 10.25511.207 10.25511.208 10.25511.201 10.25511.202 Name: coldStart 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.201 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251 10.25511.251	- I0.255.11.132	P III
Image: Synopsis Cold start Image: Synopsis Agent Image: Synopsis Cold start <td>10.255.11.151</td> <td></td>	10.255.11.151	
In 10.25511157 Image: Constant of the constant o	- 10.255.11.153 Symmetric: Cold start	
Image: Synopsis Agent Agent Name Determption: A coldStart trap signifies that the sending protocol entity is reinitializing itself such that the agent's configuration or the protocol entity implementation may be altered. Trap Description Pane Image: Synopsis Agent Agent Name Date/Time Seventy Acknowledged Trap Description Pane		
ID:255:11:201 protocol entity is reinitializing itself such that the agent's configuration or the protocol entity implementation may be altered. Trap Description Pane ID:255:11:224 Name: coldStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Agent: 10.255:11:214 Trap Description Pane ID:255:11:225 Name: coldStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Agent: 10.255:11:119 Agent Name: no-namel Enterprise: omniswitch5 Trap Managemen Buttons ID:255:11:226 10.000 Change Max Clear Help Trap Managemen Buttons ID:255:11:252 1.000 Change Max Clear Help Managemen Buttons Name Synopsis Agent Agent Name Date/Time Seventy Acknowledged Status and Notification Pane	10.255.11.198 Description: A coldStart trap signifies that the sending	
Implementation 10.255.11.207 Trop Implementation 10.255.11.217 entity implementation may be altered. Implementation 10.255.11.227 Name: coldStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Implementation Name: coldStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Implementation Name: coldStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Implementation Name: coldStart Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Implementation Name: 10.255:11.211 Agent: No.255:11.211 Normal Normal Implementation Implementation Implementation Implementation Implementation Normal Implementation Implementation Implementation Implementation Implementation Normal Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementatin Implementation Implement	protocol entity is reinitializing itself such	
In 10.255.11.224 In 2255.11.224 In 2255.11.224 In 2255.11.224 In 10.255.11.227 In 2255.11.227 In 2255.11.228 In 2255.11.228 In 10.255.11.228 In 2255.11.219 In 2255.11.219 In 2255.11.219 In 10.255.11.231 In 2255.11.219 In 2255.11.219 In 2255.11.219 In 10.255.11.251 In 2255.11.251 In 2255.11.251 In 2255.11.251 In 10.255.11.251 In 2255.11.251 In 2255.11.251 In 2255.11.251 In 10.255.11.251 In 2255.11.251 In 2255.11.251 In 2255.11.251 In 2255.11.251 In 2255.11.251	that the event's configuration or the protocol	Trap
Pane Pane		Descript
Image: Synopsis Agent Agent Name Date/Time: Jul 3, 2006 3:13:49 PM Severity: Normal Image: Synopsis Agent Agent Name Date/Time Jul 3, 2006 3:13:49 PM Severity: Normal Image: Synopsis Agent Agent Name Date/Time Jul 3, 2006 3:13:49 PM Severity: Normal Image: Synopsis Agent Agent Name Date/Time Severity Acknowledged Status and Notification	In 10.253.11.224 entity implementation may be altered.	Pana
Agent: 10.255.11.219 Agent: 10.255.11.119 Agent: 10.255.11.119 Agent: 10.255.11.119 Agent: 10.255.11.219 Source: 10.255.11.119 Enterprise: omniswitch5 Source: 10.255.11.119 Enterprise: omniswitch5 Source: 10.255.11.119 Enterprise: omniswitch5 Source: 10.255.11.219 10.255.11.251 1,000 Change Max Clear Help Managemen Buttons Name Synopsis Agent Agent Name Date/Time Sevenity Acknowledged Status and Notification Pane	10.25511227 Name: coldStart Date/Time: Jul 3 2006 3:13:40 PM Severity: Norma	rune
Agent: 10.255.11.230 Agent: 10.255.11.219 Enterprise: ommiswitch5 10.255.11.231 10.255.11.231 Source: 10.255.11.219 Trap 10.255.11.251 10.255.11.251 1.000 Change Max Clear Help Trap 10.255.11.251 10.255.11.251 1.000 Change Max Clear Help Managemen Buttons Name Synopsis Agent Agent Name Date/Time Sevenity Acknowledged Status and Name Synopsis Agent Agent Name Date/Time Sevenity Acknowledged Status and	Fil 10 255 11 228	
In 10.255.11.231 Source: 10.255.11.119 Enterprise OID: 1.3.6.1.4.1.800.3.1.1.1 Specific: 0 In 10.255.11.240 In 0.255.11.251 In 0.00 Change Max Clgar Help Management In 0.255.11.253 In 0.00 Change Max Clgar Help Management Name Synopsis Agent Agent Name Date/Time Sevently Acknowledged Status And Notification Pane Pane Status Status	Agent: 10.255.11.230 Agent: 10.255.11.119 Agent Name: no-name1 Enterprise: omnust	witch5
10.255.11.240 10.255.11.240 Trap 10.255.11.251 10.00 Change Max Clear 10.255.11.253 10.00 Change Max Clear 10.255.11.253 Agent Name Date/Time Severity Acknowledged Status and Name Synopsis Agent Name Date/Time Severity Acknowledged	- 50 10.255.11.231 Source: 10.255.11.119 Enterprise OID: 1.3.6.1.4.1.800.3.1.1.1 Specific: 0	
III 10.255.11.251 1,000 Change Max Clgar Help Managemen III 10.255.11.253 III 10.255.11.253 Buttons Buttons Name Synopsis Agent Agent Name Date/Time Sevenity Acknowledged Status And Notification Pane	10.255.11.240	
Image: The synopsis Agent Agent Name Date/Time Sevenity Acknowledged Managemen Buttons Name Synopsis Agent Agent Name Date/Time Sevenity Acknowledged Status and Notification Pane	- 10.255.11.251 [1.000 [Change Mark]	Trap
Image: The second se	- 10.255.11.252	Managen
Name Synopsis Agent Agent Name DaterTime Seventy Acknowledged Status and Notification Pane	- 1 0.255.11.253	munugen
Name Synopsis Agent Agent Name Date/Time Severity Acknowledged Status and Notification	• •	Buttons
Status and Notification Pane	Name Synopsis Agent Agent Name Date/Time Severity Acknowledged	
Notification Pane		Chicking of
Notification		Status a
Pane		Notificat
		Pane

The Trap Notifications Tab

Note: If the Trap Notifications table is not displaying any notifications, it may be that none of your discovered switches have been configured to send traps to the OmniVista server. For information on how to configure switches to send traps to the server, see the Configure Traps Help.

The Trap Notifications window consists of four main areas:

- The **Trap Notifications Table** can display alarms and traps for a single switch, for all the switches in a selected subnet, or for all known switches. For more information, see Trap Notifications Table.
- The **Trap Description Pane** provides details about an individual alarm or trap that is selected in the Trap Notifications Table. For more information, see Trap Description Pane.
- The **Trap Management Buttons** give you access to basic trap management functions, such as changing the maximum number of notifications displayed on the client (**Change Max**), and deleting all entries from the notifications table (**Clear**). For more information, see Trap Management.
- The **Status and Notifications Pane** can be displayed from any OmniVista application, making it possible to view notifications at any time, without having to return to the Notifications application. To view notifications from the Status and Notifications pane, click the **Notifications** tab at the bottom of the OmniVista window. The same information that displays through the Trap Notifications table also displays here. If the Status and Notifications pane is not currently displayed, click the **View** Menu and select **Status Panel**.

Trap Notifications Table

The Trap Notifications table displays a list of the received alarms and traps. Each row in the table displays in the color that represents the trap's severity level. For example, in the illustration below, all rows display in blue, because blue is the color used to represent a trap with severity level "Normal." The columns headings and severity level color coding are described below.

Note: A new "Switch Down" trap was added for Release 3.3. The trap is generated by OmniVista when a switch status is changed to "down" because the switch stops responding to SNMP polling.

Notrications for Switch Kite,	59 (10.255.11.59)	karsa 🖉 🖉	0 1 1 1 1	
Name	Synopsis	Agent	Agent Name	3
chassisTrapsAlert	fansOk All fans OK, Object: fan 0, Index: 65	10.255.11.59	Kite_59	7
chassisTrapsAlert	psOperational Power supply is OK, Object: p	10.255.11.59	Kite_59	
chassisTrapsStateChange	ni 1 (index 1) state changed to down	10.255.11.59	Kite_59	
coldStart	Cold start	10.255.11.59	Kite_59	
chassisTrapsAlert	cmmStartupCompleted CMM startup compl	10.255.11.59	Kite_59	
chassisTrapsStateChange	ni 1 (index 1) state changed to down	10.255.11.59	Kite_59	
chassisTrapsStateChange	ni 1 (index 1) state changed to up	10.255.11.59	Kite 59	
stpNewRoot	New root for spanning tree 999	10.255.11.59	Kite_59	1
stpNewRoot	New root for spanning tree 1	10.255.11.59	Kite 59	
4				2

Trap Notifications Table

Column Definitions

Name

The name of the trap as defined in the MIB.

Synopsis

A brief description of the trap.

Agent

The IP address of the switch that generated the trap.

Agent Name

The name of the switch that generated the trap.

Date/Time

The date and time the trap was received by the OmniVista server, using the OmniVista server's system clock.

Severity

The severity level assigned to the trap in the Notifications Application's Trap Definitions Window. If desired, you can edit the severity level (see Editing Trap Severity).

Normal	Blue
Warning	Green
Minor	Magenta
Major	Yellow
Critical	Red

Acknowledged

Indicates whether or not the trap has been acknowledged. Acknowledged traps ("true") display in plain type. Traps that have not yet been acknowledged, or whose acknowledgement has been renounced ("false"), display in bold type.

Note: When new traps arrive at a frequent rate, the horizontal scroll bar in the **Notifications for All Switches** table is reset to provide display updates, which leads to flickering. The flickering can be suspended or stopped by clicking the **Pause** icon at the top right-hand corner of the Trap Notifications table. The display updates can be resumed by clicking the **Play** icon at the top right-hand corner of the Trap Notifications table. Clicking the Play icon will cause the display to revert to a **Pause** icon indicating that you can suspend display updates again.

Trap Description Pane

The Trap Description pane displays a detailed description of the selected trap. Click a row in the Trap Notifications table to view the corresponding information in the Trap Description pane. When a trap has variables associated with it, those variables are presented in a Trap Variables Table located in the bottom half of the Trap Description pane (as shown below).

Synops	is: Auth	entication failed due to u	nknownUser. IP: 128.25	1.19.109, User: admin, Access Type: http	
Descrip	tion: Aut) aut)	hentication Failum hentication is ref	re Trap is sent ea fused.	wh time a user	
Name:	sessionAuthenticationTrap	Date/Time: Nov 28	, 2005 5:29:48 PM	Severity: Normal	
Agent:	10.255.11.59	Agent Name: Kite_59	>	Up Time: 5 days, 6 hours, 35 minutes, 16 seconds.	
Source	10.255.11.59	Trap OID: .1.3.6.1	1.4.1.6486.800.1.3.2.11	1.0.1	
sessio	nAccessType	http	The access ty	pe of the session.	
sessio	sessionUserName admin		The user name	of the user logged-in.	Trap
sessio	sessionUserIpAddress 128.251.19.1		The IP addres	The IP address of the user logged-in.	
sessionAuthFailure unio		unknownUser	The reason wh	y the user authentication failed.	

Trap Description Pane

The information in the Description pane will vary depending on whether it is displaying an SNMPv1 trap, or an SNMPv2/SNMPv3 trap. OmniVista supports receipt of SNMPv1 traps from AOS devices.

Synopsis

A brief description of the trap. When a trap has variables associated with it, the values of some or all of the variables may appear in the synopsis. For example, in the trap synopsis "Link down on slot 6 port 2," the numbers "6" and "2" are trap variable values for the link down trap. The values of all variables in a trap are presented in a Trap Variables Table located in the bottom half of the Description Pane. If desired, the synopsis can be edited to include or exclude trap variable values (see Editing a Trap Synopsis).

Description

A detailed description of the trap as it appears in the MIB.

Name

The name of the trap as defined in the MIB.

Date/Time

The date and time the trap was received by the OmniVista server, using the OmniVista server's system clock. However, for traps received that are "replays" of previously-generated traps, the date/time will be adjusted to the time that the original trap was sent. This is calculated by adjusting the time received by the difference between the current upTime of the source device and the upTime contained within the trap itself. Therefore, it is possible for new traps to be added to the display with old timestamps. So, if the network was down for hours, you may suddenly see traps appear from hours ago.

Severity

The severity level assigned to the trap in the Trap Definitions Window. Possible values are: Normal, Warning, Minor, Major, and Critical. If desired, you can edit the Severity Level (see Editing Trap Severity).

Agent

The IP address of the agent.

Agent Name

The name of the switch that generated the trap.

Up Time

The length of time the switch that sent the trap has been up (or the amount of time since the last reset), specified in days, hours, minutes, and seconds. This only applies to SNMPv2 and SNMPv3 traps.

Source

The IP address of the switch that generated the trap.

Trap OID

The trap object identifier number. This only applies to SNMPv2 and SNMPv3 traps.

Enterprise OID

The enterprise object identifier number. This only applies to SNMPv1 traps.

Enterprise

The enterprise name. This only applies to SNMPv1 traps.

Specific

The enterprise trap number. This only applies to SNMPv1 traps.

Trap Variables Table

When a trap has variables associated with it, those variables are presented in a Trap Variables table (as shown above). For each variable, there is a row in the table.

- The first column is the name of the variable as defined in the MIB.
- The second column is the variable value.
- The third column is a description of the variable as it appears in the MIB.

For some traps, a variable may contain multiple data embedded in the variable value in a manner that prohibits separation of the individual values based solely on the MIB definition of the variable. For this type of variable, an additional table appears after the Trap Variables table. This additional table is preceded by the label "Details of: <SNMP variable name>" and has a row for each embedded datum where the first column is the name or brief description of the datum and the second column is the data value.

The Switches Tab

The switches tab displays a list of all discovered switches with an additional **Trap Count** column that displays the total number of traps received on each switch. Like all Lists of Discovered Switches, this list of switches enables you to perform functions on a single switch or multiple switches simultaneously. To do so, select a switch (or multiple switches) in the list and right-click to display a popup menu of the functions available. You can also filter the list, not only by switch, but by trap type.

mniVista 2500 - Application	c Notifications	Window:0					
Applications View Help							
	i 💊 🛛	🗧 🖬 👻					
Notifications	Notifications	Switches					
Responders						252	5 🕄 📾 🗛 🏢
a Trap Definition	Trap Count	Name	Address	DNS Name	Type	Version	Last Upgrade Sta
 M (10.0.0.08) 	833	no-name1	10.255.11.119		OmniS/R-5	4.5.2	
10 255 10 3	6	Unset	10.255.11.253		Omni-SWX	4.4.3	
10 255 11 102	2	no-name	10.255.11.252		OmniS/R-5	4.3.3.176	
10,255,11,118	0	DCTestnetCore	10.255.10.3		059600	6.1.1.154.R02	
10,255,11,119	0	NMS_HAWK_102	10.255.11.102		0S6624	5.1.6.32.R03	
10 255 11 120	0	HAWK_118	10.255.11.118		0S6648	5.1.6.200.R02	
10 255 11 129	0	no-name	10.255.11.120		OmniS/R-3	4.5.2	
10,255,11,131	0	Fuji_129	10.255.11.129		0\$9700	6.1.1.154.R02	
- 10 255 11 132	0	HAWK_131	10.255.11.131		OS6648	5.1.6.200.R02	
10.255.11.151	0	OS6248	10.255.11.132		0S6200-48LS		
10,255,11,153	0	QAW-4308_nms	10.255.11.151		OAW-4308		
10.255.11.157	0	HAWK_153	10.255.11.153		056648	5.1.6.200.R02	
10,255,11,198	0	A0S_Hawk_157_alias	10.255.11.157		OS6624	5.1.6.173.R02	
	0	OmniSwitch_198_xyz	10.255.11.198		0\$7800	5.1.6.32.R03	
- 10 255 11 202	0	OmniStack 8008_201	10.255.11.201		05-8008	V2.50.09	
10 255 11 207	0	Fuji9600_202	10.255.11.202		059600	6.1.1.138.R02	
10 255 11 224	0	OS6602-24	10.255.11.207		OS6602-24	5.1.6.393.R01	
10.255.11.225	0	- test	10.255.11.224		08-6124	V3.40.31	
10.255.11.227	0	NMS_HAWK_102	10.255.11.225		0\$6624	5.1.6.170.R02	
10.255.11.228	0	Hawk151	10.255.11.227		0\$6624	5.1.6.288.R01	
10.255.11.230	0	OmniSwitch	10.255.11.228		0\$6648	5.1.5.114.R04	
10.255.11.231	0	lanswitch	10.255.11.230		OS6600-P24	5.1.6.143.R02	
10.255.11.240	0	Hawk197	10.255.11.231		0S6648	5.1.6.143.R02	
10.255.11.251	0	240-osr-mpx10	10.255.11.240		OmniS/R-5	4.5.2.62	
10 266 11 262	0	d no-name	10 255 11 251		OmniSR.5	4 4 4	

The Trap Switches Tab

The **All** icon in the Notifications tree lists each known subnet. Click a subnet, and then click the Switches tab, to view the list of all the discovered switches in that subnet. Popup menus available in the tree provide additional functionality. You can only select one switch at a time in the tree.

Information Fields in the List

Trap Count

Displays the number of traps that belong to the switch (corresponding trap names are shown in the Notifications tab). This field is periodically updated as new traps arrive. The **Trap Count** field initially sorts the list of discovered switches in descending order.

Name

The name of the device.

Address

The address of the device.

DNS Name

The DNS name of the device.

Туре

The type of the device chassis.

Version

The version number of the device firmware. Version numbers are not displayed for certain non-XOS devices.

Last Upgrade Status

The status of the last firmware upgrade on the switch.

- "Successful" Successful BMF and Image upgrade performed.
- "Successful (BMF)" Successful BMF upgrade performed.
- "Successful (Image)" Successful Image upgrade is performed.
- "Failed (BMF, Image)" BMF and Image upgrade failed.
- "Failed (BMF)" BMF upgrade failed.
- "Failed (Image)" Image upgrade failed.

In all "Failed" cases, "Reload From Working" will be disabled on the switch until a successful upgrade is performed.

Backup Date

The date that the device's configuration and/or image files were last backed-up to the OmniVista server.

Backup Version

The firmware version of the configuration and/or image files that were last backed-up to the OmniVista server

Last Known Up At

The date and time when the last poll was initiated on the device.

Description

A description of the device, usually the vendor name and model.

Status

This field displays the operational status of the device. It displays **Up** if the device is up and responding to polls. (When a device is up, it displays green in both the List of All Discovered Devices and the tree.) It displays **Down** if the device is down and not responding to polls. (When a device is down, it displays red in both the List of All Discovered Devices and the tree.) This field displays **Warning** if the switch has sent at least one warning or critical trap and is thus in the warning state. (When a device is in the warning state, it displays orange in both the List of All Discovered Devices and the tree.)

Traps

This field indicates the status of trap configuration for the device. **On** means that traps are enabled. **Off** means that traps are disabled. **Not Configurable** means that traps for this device are not configurable from OmniVista. (Note that traps may have been configured for such devices outside of OmniVista.) **Unknown** means that OmniVista does not know the status of trap configuration on this switch. OmniVista will read the switch's trap configuration when traps are configured for the switch via the Configure Traps Wizard.

Seen By

This field lists the Security Groups that are allowed to view the device. (The Security Groups that are allowed to view a device can be defined when devices are autodiscovered, added manually, or edited.) The default Security Groups shipped with OmniVista are as follows:

- **Default** group. This group has read-only access to switches in the list of All Discovered Devices that are configured to grant access to this group.
- Writers group. This group has both read and write access to switches in the list of All Discovered Devices that are configured to grant access to this group. However, members of this group cannot run autodiscovery nor can they manually add, delete, or modify entries in the list of All Discovered Devices.
- Network Administrators group. This group has full administrative access rights to all switches on the network. Members of this group can run autodiscovery and can manually add, delete, and modify entries in the list of All Discovered Devices. Members of this group also have full read and right access to entries in the Audit application and the Control Panel application. Members of this group can do everything EXCEPT make changes to Security Groups.
- Administrators group. This group has all administrative access rights granted to the Network Administrators group AND full administrative rights to make changes to Security Groups.

Note that other Security Group names may display in this field if custom Security Groups were created. Refer to help for the Security application *Users and Groups* for further information on Security Groups.

Running From

For AOS devices, this field indicates whether the switch is running from the **certified** directory or from the **working** directory. This field is blank for all other devices. For AOS devices, the directory structure that stores the switch's image and configuration files in flash memory is divided into two parts:

- The certified directory contains files that have been certified by an authorized user as the default configuration files for the switch. When the switch reboots, it will automatically load its configuration files from the certified directory if the switch detects a difference between the certified directory and the working directory. (Note that you can specifically command a switch to reboot from either directory -- click here for information.)
- The working directory contains files that may or may not have been altered from those in the certified directory. The working directory is a holding place for new files to be tested before committing the files to the certified directory. You can save configuration changes to the working directory. You cannot save configuration changes directly to the certified directory.

Note that the files in the certified directory and in the working directory may be different from the running configuration of the switch, which is contained in RAM. The running configuration is the current operating parameters of the switch, which are originally loaded from the certified or working directory but may have been modified through CLI commands, WebView commands, or OmniVista. Modifications made to the running configuration must be saved to the working directory (or lost). The working directory can then be copied to the certified directory if and when desired. Click here for more information.

Changes

For AOS devices, this field indicates the state of changes made to the switch's configuration. This field is blank for all other devices. This field can display the following values:

- **Unsaved**. Changes have been made to the running configuration of the switch that have not been saved to the working directory.
- Uncertified. Changes have been saved to the working directory, but the working directory hasn't been copied to the certified directory. The working directory and the certified directory are thus different.
- Blank. When this field is blank for an AOS device, the implication is that OmniVista knows of no unsaved configuration changes and assumes that the working and certified directories in flash memory are identical.

OmniVista is now capable of tracking AOS configuration changes made through CLI commands or WebView, and so will reflect configuration changes made outside of OmniVista through these two interfaces in the Changes field. Information in the Changes field will be accurate as long as OmniVista has polled the switch since the last change was made (through any interface).

Note that it is possible a switch could be in a state where it is both Unsaved and Uncertified. In this situation **Unsaved** displays in the Changes field. Whenever an AOS device is in the Unsaved or Uncertified state, a blue exclamation mark displays on its icon ().

Discovered

This field displays the date and time when OmniVista successfully pings or polls the switch for the first time. This value remains unchanged until the switch entry is deleted. This field will remain blank if OmniVista does not ping or poll the switch at all.

Trap/Switch Filtering

In addition to the standard switch table filter functions, you can use the Notifications Tab and the Switches Tab to filter by trap type and switch. When you create a trap filter using the Notifications Tab, the Switches Tab is automatically filtered to display the switches generating the filtered trap. After applying the filter in the Notifications Tab, click on the Switches Tab. The switches generating that trap will be displayed at the top of the list. If you have previously applied a filter to the Switches Tab, the list will also be filtered by that Switch Filter; or you can apply a different/new filter.

Trap Archiving

When traps are received, OmniVista logs the information about a trap to a trap archive log file (**traps.txt**) located in the installation directory/data/logs folder. The **traps.txt** file will not be listed under **Current Log Files** in the **Audit** application like other log files.

When the **traps.txt** file reaches the configured maximum file size, OmniVista automatically archives a copy of the file under **Archived Log Files** of the **Audit** application. The number of trap archived files cannot exceed the maximum number of audit file copies configured in the **Preferences** application.

Note: You can set the maximum number of archived files and the maximum trap archive file size using the **Preferences** application.

The archived log file of **traps.txt** will have the same filename, but the date and time the file was archived is appended to it (e.g., traps_05-16-2006_043715PM.bak).

Trap Management

The Notifications application is used to handle basic Trap Management tasks. Depending on user privileges, you can perform the tasks listed below.

All Users can perform the following:

- Change the maximum number of Notifications displayed on the Client
- Change the maximum number of Notifications logged on the Server
- Copy traps to the clipboard
- Export traps to a .csv (comma-separated value) file.

If you have Administrative privileges (admin or netadmin), you can also perform the following:

- Clear all entries from the Trap Notifications table
- Acknowledge a trap
- Delete a trap.

Changing the Maximum Number of Notifications Displayed

On the Client side, the default maximum number of notifications that can be displayed in the Trap Notifications table is 1,000. To change this value, enter a new number in the Max Notifications field, then click the **Change Max** button, as shown below.



There is no restriction on the number that can be entered in the Max Notifications field. However, the default maximum number of notifications that can be logged on the server is 30,000. If a number higher than 30,000 is entered in the Max Notifications field on the client, but the server has not been configured to log more than 30,000 notifications, the client will display no more than 30,000 notifications. (For information on how to change the maximum number of notifications that can be logged on the server (see Changing the Maximum Number of <u>Notifications</u> Logged on the Server.)

As the Trap Notifications table becomes filled, the oldest entries in the table are deleted to make room for the new alarms and traps that are received.

Note: Editing the number in the Max Notifications field on the Client does not result in any permanent change. If you close the Notifications application, then reopen it, the number in the Max Notifications field will return to its default value of 1,000. However, while the Notifications application is open, the maximum number of notifications will remain at the number that was set.

Changing the Maximum Number of Notifications Logged

The maximum number of Notifications logged on the server is specified by the **Notifications Preferences** window in the Preferences application. The Preferences application is part of the Administration group of applications and can be opened from the Taskbar or by selecting **Preferences** on the **File** menu.

Copying Traps to the Clipboard

To copy one or more traps to the clipboard, select the corresponding row(s) in the Trap Notifications Table, right-click to bring up the pop-up menu, then click **Copy** (as shown below).

Note: To select multiple rows, click on the rows while holding down the **CTRL** or **SHIFT** keys.



Copying Traps to the Clipboard

This feature is useful for copying a single trap into a text editor or pasting it into an e-mail. When copied into a spreadsheet file, the trap information displays in a single field; this is in contrast to exporting traps, where all the field information is retained (see Exporting Traps).

Exporting Traps to a .CSV File

Use the Export function to save trap information to a *.csv (comma-separated value) file, then view it through a text editor, spreadsheet, or database program. Because trap information is eventually written over as the Max Notifications value is reached, the Export function is useful when you want to archive trap information for later use.

You can export traps for all switches, for all switches in a selected subnet, or for a single switch. Display the traps that you want to export by clicking on **All**, a subnet or an individual switch in the Notifications tree; then select **Export Traps** from the **File** menu or click the Export Table icon. In the example below, a subnet was selected, so all of the traps for all of the switches in that subnet are displayed.

	File Applications View H	elp	-A15-21	ALC: NO	
elect Switches, subnet, or a	Logout	0	10.255.11.119 💌	9	E
ngle switch, then elect Export	Close Notifications Close Window	Notifications S	witches		I
raps from the	≥ Polling	Name	Synopsis	Agent Agent I	
le Menu. 💶 🕨	- Export Traps	coldStart	Cold start	10.255.11.119 no-nam -	
	Exit Roz	warmStart	Warm start	10.255.11.119 no-nam	
	bd 10.255 11 118	systemEvent5	Potentially fatal error occurred. Trap: 2	10.255.11.119 no-nam	
	10 255 11 119	tempAlarmo	Temperature exceeded the threshold	10.255.11.119 no-nam	
	10.255.11.120	temnAlarm5	Temperature exceeded the threshold	10.255.11.119 no-nam	
	10.255.11.129	moduleChange5	Module invalid inserted or removed from slot 3 subunit hsm1	10.255.11.119 no-nam	
	10.255.11.131	powerEvent5	Power Supply 1: notPresent. Power Supply 2: 89	10.255.11.119 no-nam +	
	10.255.11.132				
	10.255.11.153	T 0 0			
	10.255.11.157	Trap Configurati	on Status: On		
	10.255.11.198				
	10.255.11.201				
	10.255.11.202				
	10 255 11 207				
	10.255.11.225				
	10.255.11.227				
	- 10.255.11.228				
	10.255.11.230				
	10.255.11.231				
	10.255.11.240			-	
	10.255.11.251		1,000 Change Max Clear Help		
	10.255.11.252		And the second s		

When you select **Export Traps** or click the Export Table icon, the Export Traps window appears. Navigate to the directory where you want to save the information, enter a file name, then click **Save**.

1. Maria da Alex	Export Traps Window	
1. Navigate to the directory where	🛃 Export Traps 🔀	L
you want to save _ the trap file.	Save In: My Documents	
	C Adobe	L
	My Data Sources	L
	My eBooks	L
	My Pictures	L
	C OmniVista	
2. Enter a file name	File Name:	L
	The Banks	L
	Files of Type: comma separated value file (.csv)	L
	Save Cancel	
	N3. Click Sav	2.

Note: You do not need to include .csv to the filename; the file extension is automatically added.

The .csv file can be opened using any text editor, spreadsheet, or database program. The following is an example of what you would see when the file is viewed through a spreadsheet application:

	licrosoft Excel	Engineering Tr	aps 12-12-05.csv		Tracks		×
2	Ees Fox As	w Insert For	war Toole Frana Wudow	Паф молобас	type a dr	resound for help •	-
D	🖻 🖬 🛍 (≝Q.∜ X	1 1 Σ.	21 🛍 🖸	Arial	• 10 • 🐺	
-	-						
10	400	6 10 2	55 44 50				
_	P22 •	7∾ 10.2	55.11.59	0	F	P	tic Tic
	A.	Annual	L.	CanadiaTran	CasadaTasa	F	12
1	10 255 11 50	Agent 10 365 11 60	rearie chassisTress Alext	Generic trap	Specific trap	Time Mod Nov 22 10-66-22	1
2	10.255.11.59	10.200.11.09	chassis traps Alert	0	0	Wed Nov 23 10:55:32	1
2	10.255.11.59	10.255.11.59	chassis irapsAden	0	0	Wed Nov 23 10:55:32	1
4	10.205.11.59	10.255.11.59	chassis (rapsStateChange	0	0	Wed Nov 23 10:55:32	1
0	10.255.11.59	10.255.11.59	coldstan	0	0	Wed Nov 23 10:55:32	11
7	10.235.11.59	10.255.11.59	chassisTrapsAden	0	0	Wed Nov 23 10:55:39	1
6	10.205.11.09	10.255.11.59	chassis iraps State Change	0	0	Wed Nov 23 10:55:49	18
0	10.255.11.59	10.255.11.59	chassis i raps State Change	0	0	VVed IN0V 23 10:55:51	5
9	10.255.11.59	10.255.11.59	stpNewRoot	0	0	Wed Nov 23 10:55:54	ł
10	10.255.11.59	10.255.11.59	stpNewRoot	0	0	Wed Nov 23 10:55:56	1
11	10.255.11.59	10.255.11.59	stpNewRoot	0	0	Wed Nov 23 10:55:57	1
12	10.255.11.59	10.255.11.59	stpNewRoot	0	0	Wed Nov 23 10:55:57	2
13	10.255.11.59	10.255.11.59	stpRootPortChange	0	0	Wed Nov 23 10:56:04	Į.
4	10.255.11.59	10.255.11.59	aipAMAPStatusTrap	0	0	Wed Nov 23 10:56:29	1
15	10.255.11.59	10.255.11.59	stpRootPortChange	0	0	Wed Nov 23 15:08:54	1
16	10.255.11.59	10.255.11.59	chassisTrapsAlert	0	0	Sat Nov 26 12:28:12 F	
17	10.255.11.59	10.255.11.59	chassisTrapsAlert	0	0	Sat Nov 26 12:28:18 F	1
18	10.255.11.59	10.255.11.69	stpRootPortChange	0	0	Mon Nov 28 08:57:26	1
19	10.255.11.59	10.255.11.59	chassisTrapsAlert	0	0	Mon Nov 28 14:17:54	-
	+ H Enginee	ering Traps 12-1	2-05/		· //	2	Г

Clearing All Entries from the Trap Notifications Table

To remove all alarms and traps currently displayed in the Trap Notifications table, click the **Clear** button at the bottom of the log. Once you have cleared the entries, they are permanently deleted from the OmniVista server and will no longer be displayed on any OmniVista client.



Acknowledging a Trap

To acknowledge a trap or renounce a trap acknowledgement, follow the steps below:

1. Select one or more traps from the Trap Notifications table.

2. Right-click to bring up the pop-up menu.

3. Select either Acknowledge or Renounce Acknowledgement.

Acknowledged traps appear in plain type. Traps that have not yet been acknowledged and traps for which you have renounced acknowledgement are displayed in bold type.

Deleting a Trap

To delete a trap, follow the steps below:

- 1. Select one or more traps from the Trap Notifications table.
- **2.** Right-click to bring up the pop-up menu.

3. Select **Delete**. No confirmation is requested. The trap is permanently deleted from the OmniVista server and will no longer be displayed on any OmniVista client.

Note: Refer to the Topology Help for information on pop-up menu commands not related to trap management.

The Trap Responders Window

The Trap Responders window enables you to specify the response (if any) that you want OmniVista to make when specified traps are received by OmniVista. You can specify the traps to which OmniVista will respond by severity level; or, you can specify the traps using filters. OmniVista can make the following responses to receipt of a specified trap:

- OmniVista can send an e-mail to any address you specify. You can specify the information you want included in the e-mail through the use of variables. Variables exist for information such as the trap name, synopsis, description, etc.
- OmniVista can execute an external program or script on the OmniVista server
- OmniVista can forward traps to a specific IP address.

To configure an OmniVista trap response, select **Responders** in the Notifications tree. The Trap Responders pane is displayed, as shown below. The Trap Responders pane contains two tabs, the **Condition** tab and the **Response** tab. The Condition Tab is used to specify the traps that will trigger OmniVista's response; and the Response Tab is used to configure the response.

liel: en	Elle Applications View Help	
esponders	Responders V	-
o bring up he window	Wotifications Automatic Trap Responders Trap Definition Normal Warning Minor Major Critical Must Match Filter Names Image: State of the s	Respon
	Edit Delete Apply Help	

The Trap Responders Window

Click New to create a Trap Response.

For example, when a specified trap is received, you could configure the following responses:

- OmniVista could automatically send an e-mail to the MIS director. The body of the e-mail could contain the details of the trap.
- OmniVista could automatically run an audio program that announces out loud: "You have received a trap."

How to Configure a Trap Responder

To configure a new trap responder, click the **New** button at the bottom of the Trap Responders pane and refer to the sections below.

The Condition Tab

You can specify the traps to which OmniVista will respond by severity level; or, you can specify the traps using filters. Note that you can specify traps by severity level or filters, but you cannot specify traps using both severity levels and filters. (In other words, you cannot "AND" specified severity levels and specified filters to create an expression.) If you create a trap responder that specifies both severity level and filters, the trap responder will respond to all traps with the specified severity (even if they do not match the filter), and all traps that match the specified filters (even if they do not have the specified severity).

		besponders	-						
Notifications	Automatic Trap R	esponders	4	-				8	2511
Trap Definition	Normal War	ning Minor	Major	Critical	ML	ist Match	Filter Names	Response Desc	ription
10.255.11.118 10.255.11.119 10.255.11.120 10.255.11.120 10.255.11.129 10.255.11.131 10.255.11.131 10.255.11.151 10.255.11.151 10.255.11.153 10.255.11.157 10.255.11.188	Create Trap Con Condition F Traps	dition and R tesponse which matc	esponse h these s	everities:		OR	which match 1	bese filters:	_1
10.255.11.202	Normal:	ignore			•	Must Match	h: Any Selec	ted Filter 💌	
10.255.11.224	Warning	: Ignore			•		Switch Switch	241	
10.255.11.225	Minor:	ignore			-	Filter Name	est	1000	
10.255.11.228	Major:	ignore			-				
10.255.11.230	Critical:	ignore			•		Ed	it Filter List	
10.255.11.251	-		OK	Defe		Cancel	Hale		
10.255.11.252			UN	Defa	un	Cancer	Geib		

The Condition Tab

Specifying Traps by Severity

The Condition tab lists each possible trap severity level - Normal, Warning, Minor, Major, and Critical - and provides a drop-down menu for each level. Each level can be set to either **ignore** or **respond**. When a level is set to **respond**, receipt of a trap with that severity level will trigger the response specified in the Response tab. When a drop-down box is set to **ignore**, receipt of a trap with that severity level will trigger the response specified in the Response tab. When a drop-down box is set to **ignore**, receipt of a trap with that severity level will not trigger the response specified in the Response Tab.

buttons change to configure a Condition.

If you want to specify traps using one or more severity levels, set the desired trap severity levels to **respond**. For example, you might want to set the Major severity level and the Critical severity level to **respond** and leave other severity levels set to **ignore**. In this case, the response specified in the Response Tab will occur when a trap of Major severity or Critical severity is received. If you specify traps using severity levels, ensure that no filters are selected in the **Filter Names** box.

When the filter is specified, click the Response Tab to configure the response.

	Mar Re	esponders 👻			<u> </u>	
Autors Autors	Automatic Trap Re Normal Warn Ignore Ignore Create Trap Cond Condition Re Traps v Normal: Warning: Minor: Major: Critical:	sponders ing Minor Major ignore ignore ignore ignore ignore ignore cespond CK To specify tree	Critical Must Match gnore Any Selected Filter	Filter Names Response Switch 242	Description	Make sure no filters are — selected.

Specifying Traps by Severity Level

Specifying Traps by Filter

Create filters by clicking the **Edit Filter List** button, which displays the Edit Filters Window. The Edit Filters Window enables you to create, edit, and delete the filters listed in the **Filter Names** field.

To specify traps by one or more filters, set the **Must Match** drop-down menu to **Any Selected Filter** (which will OR the filters that you select) or to **All Selected Filters** (which will AND the filters that you select). Select the desired filters in the **Filter Names** box. A filter is selected when it is checked. Ensure that the severity levels are set to **ignore**.

When the filter is specified, click on the Response Tab to configure the response.

	🙆 😵 Re	sponders 💌				۵	
Notifications ▲ ▲ Responders ▲ Trap Definition ▲ All ▲ 10.255.10.3 ▲ 10.255.11.102 ▲ 10.255.11.118	Automatic Trap Re Normal Warni ignore ignore	sponders ing Minor Majo ignore ignore	r Critical ignore Any	Must Match F Selected Filter Sv	Ifter Names Response De witch 242	scription	
10.255.11.119 10.255.11.20 10.255.11.20 10.255.11.32 10.255.11.32 10.255.11.32 10.255.11.51 10.255.11.53 10.255.11.153 10.255.155 10.255.155 10.255.155 10.255.155 10.255.155 10.255.155 10.255.155 10.255.155 10.2	Create Trap Cond Condition Re Traps b	ition and Response sponse	e constituer	08.44	ich match those fillers		Set this field to
10.255.11.198	Normal:	ignore	severices:	Must Match:	Any Selected Filter		- or All Selected Filter
10.255.11.207	Warning:	ignore	-		Switch 241		Colort Filter(a)
10.255.11.225	Minor:	ignore	-	Filter Names:	Switch 242		- Select Filter(s).
10.255.11.227	Major:	ignore	-				- Click Edit Filter List
- 10.255.11.230 - 10.255.11.231 - 10.255.11.240	Critical:	ignore	•		Edit Filter List		or delete a filter.
- 10.255.11.251 - 10.255.11.252		OK	De[ault	Cancel	jelp		

Specifying Traps by Filter

The Response Tab

To create the response, first enter a description of the response in the **Response Description** field. Set the **Response Action** field to **Send an e-mail**, **Run an application on the server**, or **Forward traps**. Continue as described in the appropriate section below.

The Response Tab

🜈 OmniVista 2500 - Application:	Notifications Window:0		
Eile Applications View Help			
	🙆 😪 Respond	lers 💌	a
Notifications Image: Control of the second se	Automatic Trap Respond Normal Warning 1 Ignore Ignore Ig Create Trap Condition a Condition Response Response Action: E-mail To: E-mail Body:	ers Minor Major Critical Must Match Filter Names Response C Inore Ignore Ignore Arry Selected Filter Switch 242 and Response se Send an e-mail Default Cancel Help	Enter a description for the Response. Set the Response Action.

To Send an E-Mail

If you set the Response Action to **Send an e-mail**, follow the steps below to define the e-mail to be sent. It is important to note that all fields in the Sending E-Mail Preferences Window in the Preferences Application MUST be completed or the e-mails you define will not be sent. To display the Sending E-Mail Preferences Window, select **Sending E-Mail** in the Preferences Application, which is in the Administration Group of applications.

🖉 OmniVista 2500 - 🛛 Application	: Notifications Window:0				
Elle Applications View Help					
	🙆 😵 Respond	lers 💌		a	
Notifications	Automatic Trap Respond	ers diaas Malas Ostiaad	Must Match Cilles Massas		
Trap Definition All (10.0.0.0%) 10.255.10.3 10.255.11.118 10.255.11.118 10.255.11.119 10.255.11.119 10.255.11.119 10.255.11.120 10.255.11.120	ignore ignore ig	nnore ignore ignore Any	Selected Filter Switch 242	Response Description	
10.255.11.129 10.255.11.131 10.255.11.132 10.255.11.132	Create Trap Condition a	nd Response	1	×	
- 10.255.11.153 - 10.255.11.157	Condition Response Response Description:	e		-	– Description.
10.255.11.201 10.255.11.202	Response Action:	Send an e-mail		•	Enter the address
10.255.11.207 10.255.11.224 10.255.11.225 10.255.11.225	E-mail Body:	\$Details\$			will be sent.
- 10.255.11.227 - 10.255.11.228 - 10.255.11.230 - 10.255.11.231 - 10.255.11.231		1			Enter the text for the body of the e-mail, or enter a
10.255.11.251 10.255.11.252 10.255.11.253		OK Default	Cancel Help		variable.

Click OK to save the Responder to session memory. Then click Apply to save the Responder to the server.

1. Enter a Response description.

2. Enter the address to which the email will be sent in the **Email To** field. (The "From" address on responder e-mails is determined by the entry in the **Use 'From' Address** field in the Sending E-mail pane n the Preferences application.)

3. Define the body of the email in the **E-mail Body** field by typing the desired text and/or the desired variables. The variables you can use are explained in the Trap Variables section below. You can also accept the default e-mail body, which is the variable \$Details\$ (explained below).

4. Click the **OK** button. The new automatic trap responder is saved to the session memory and is listed in the **Automatic Trap Responders** table as an unsaved change. Click the **Apply** button to save the new responder to the server.

To Run an Application on the Server

If you set the Response Action to Run an application on the server, follow the steps below to define the application to be run.

	🙆 😪 Respon	ders 💌	
Notifications	Automatic Trap Respond	lers	B IHIEIIIII
Trap Definition	Normal Warning	Minor Major Critical Must Match Filter Names Respon	nse Description
AII	ignore ignore i	gnore lignore lignore Any Selected Filter Switch 242	
P 10.0.0.0/8)			
10.255.10.3			
10.255.11.102			
10.255.11.118			
10.255.11.119			
10,255,11,129			
10.255.11.131	4	and the second se	b
10.255.11.132	Counter Trees Countilion	and Desenance	
- 2 10.255.11.151	Create Trap Condition	and Kesponse	Cuton a Demonstr
- 😥 10.255.11.153	Condition Respon	se	Enter a Response
- 💓 10.255.11.157	Response Description:		Description.
10.255.11.198	i a sponse a coordinant		Enton a command
10.255.11.201	Response Action:	Run an application on the server	- Chier a commana.
210.255.11.202	Command		Enter the Arguments.
10.255.11.207			
10.255.11.225	Arguments:	\$Synopsis\$	Enter directory where
10.255.11.227	Start Directory;		command should start
10.255.11.228			Commune Should Sturn.
- 🗑 10.255.11.230	Chandrard Innut-	\$Details\$	Enton the Standard
- 😥 10.255.11.231	Stanual u Input.		- Enter the Standard
- 10.255.11.240		1	Input for the comman
10.255.11.251		OV Defection Connect Links	
10.255.11.252		On Dejaux Cancer Belp	
		-	

Response Tab - Run an Application

1. Enter a Response description.

2. Enter the command to be executed in the Command field.

3. Enter the arguments to the command specified above in the **Arguments** field, or accept the default argument, the variable \$Synopsis\$ (explained in the Trap Variables section below).

4. Enter the directory in which the command should be executed in the Start Directory field.

5. Enter the standard input for the command in the **Standard Input** field, or accept the default standard input, the variable \$Details\$ (explained in the Trap Variables section below).

6. Click the OK button. The new automatic trap responder is saved to session memory and is listed in the Automatic Trap Responders table as an unsaved change. Click the Apply button to save the new responder to the server.

To Forward the Traps

If you set the Response action to **Forward traps**, follow the steps below to forward the traps to a specific IP address.

Note: If you have enabled Trap Absoprtion for non-AOS devices through the Preferences application, all traps will still be forwarded for this response option.

	🙆 😵 Respon	ders 🔽	a
Notifications	Automatic Trap Respon	lers All	
Tran Definition	Normal Warning	Minor Major Critical Must Match Filter Names Response De	ascription
All	ignore ignore	gnore ignore Any Selected Filter Switch 242	
R (10.0.0.0/8)			
10.255.10.3			
- 10.255.11.102			
- 10.255.11.118			
- 10.255.11.119			
10.255.11.120			
- 10.255.11.129			
- 😥 10.255.11.131	4	1	•
- 10.255.11.132	Croate Tran Condition	and Baspansa	
- 2 10.255.11.151	create trap contition	anu response	C 1 D 1
- 😥 10.255.11.153	Condition Respon	se	Enter a Response
- 😥 10.255.11.157	Response Description		- Description
- 10.255.11.198	response beachpoon		
- 20 10.255.11.201	Response Action:	Forward traps	-
10.255.11.202			Enter the Destination
10.255.11.207	Destination IP:		TD address for the to
10.255.11.224	Destination Port:	162	IP address for the tr
10.255.11.225			
10.255.11.227			Enten the Dectination
10.255.11.228			enter the Destination
10.255.11.230			UDP Port Number
10.255.11.231			(D. (
10.255.11.240			(Detault = 162).
10.255.11.251		OK Default Cancel Help	
10.255.11.252		ou peignu cance lieb	
10.255.11.253			

Response Tab - Forward Traps

1. Enter a Response description.

2. Enter the destination IP address in the **Destination** IP field. Only one IP address can be entered per Responder. However, you can create multiple Responders to forward the trap to multiple recipients.

3. Enter the destination UDP port number (Default = 162) in the **Destination Port** field.

4. Click the **OK** button. The new automatic trap responder is saved to the session memory and is listed in the **Automatic Trap Responders** table as an unsaved change. Click the **Apply** button to save the new responder to the server.

Note: You can forward traps between two servers to provide a backup for trap logs. However, forwarding traps between more than two servers is not supported.

Facts About Responder E-Mails

To prevent e-mail storms that would result from receipt of multiple traps, OmniVista does NOT send one email per trap received. Rather, OmniVista "coalesces" (i.e., combines) responder e-mails to prevent storms. OmniVista will send a coalesced responder e-mail when:

- a minute has passed since the first trap was received for which an e-mail was not generated, OR
- a minimum of 100 traps have been received.

Note: These default values can be re-defined using the Trap E-Mail pane of the Preferences application, which is in the Administration group of applications.

The subject of responder e-mails takes the following form:

OmniVista: Traps Received (2 Critical, 2 Major, 5 Minor)

The "From" address in the responder e-mails is determined by the entry in the Use 'From' Address field in the Sending E-Mail pane of the Preferences application.

Trap Variables

You can use the following variables when you configure an automatic trap responder. There are two types of variables: generic variables (which currently apply only to traps) and trap-specific variables.

Generic Variables

\$Details\$

For traps, this variable is equivalent to the following combination of text and trap-specific variables (trapspecific variables are described in the following section):

Trap Received: \$TrapName\$ Severity: \$TrapSeverity\$ Synopsis: \$TrapSynopsis\$ Agent: \$TrapAgent\$ Variables: \$TrapVariables\$

Output Example:

Trap Received: portPartitioned Severity: Minor Synopsis: Port jabber on slot 7 frtrunking port 1 instance 156 (port state alternated between enabled and disabled more than 50 times in 200 ms) Agent: 128.251.30.27

\$Synopsis\$

For traps, this variable is equivalent to the trap-specific variable \$TrapSynopsis\$, which is a brief description of the trap.

Output Example: Port jabber on slot 7 frtrunking port 1 instance 156 (port state alternated between enabled and disabled more than 50 times in 200 ms)

Trap-Specific Variables

\$TrapName\$

The name of the trap (as defined in the MIB)

Output Example: portPartitioned

\$TrapSynopsis\$

A brief description of the trap.

Output Example: Port jabber on slot 7 frtrunking port 1 instance 156 (port state alternated between enabled and disabled more than 50 times in 200 ms)

\$TrapDescription\$

A detailed description of the trap (as it appears in the MIB)

Output Example: A portPartitioned trap occurs when the physical port has transitioned through enable/disable states faster than 10 times in the past second...indicative of a flaky cable.

\$TrapSeverity\$

The severity level assigned to the trap in the Notifications application's Trap Definitions pane. The severity level can be Normal, Warning, Minor, Major, or Critical.

Output Example: Minor

\$TrapSeverityInt\$

The severity level assigned to the trap in the Notifications application's Trap Definitions pane, expressed as an integer. The severity level integer can be 1 (Normal), 2 (Warning), 3 (Minor), 4 (Major), or 5 (Critical).

Output Example: 3

\$TrapSnmpVersion\$

The version of the trap request, either 1 (version 1) or 2 (version 2).

All traps sent with SNMP version 1 protocol are "version 1" trap requests. All traps sent with SNMP versions 2, 2c, or 3 protocol are "version 2" trap requests. There are actually two different types of trap requests (not three). The message packet in which trap requests are sent can be one of four different versions: 1, 2, 2c, or 3. When you use the AOS CLI to create a version 1 trap station, version 1 traps in version 1 protocol are sent to that station. When you use the AOS CLI to create a version 2 trap station, version 2 traps in version 2 c protocol are sent to that station. When you use the AOS CLI to create a version 2 trap station, version 3 trap station, version 2 traps in version 3 protocol are sent to that station. The version 2 trap request itself is identical whether wrapped in a version 2 or version 3 packet.

Output Example: 1

\$TrapSource\$ The IP address of the switch that generated the trap.

Output Example: 127.0.0.1

\$TrapUpTime\$

The length of time the switch that sent the trap has been up (or the amount of time since the last reset).

Output Example: 21 hours, 35 minutes, 49 seconds

\$TrapAgent\$ The IP address of the SNMP agent.

Output Example: 128.251.30.27

\$TrapV1Enterprise\$

The enterprise name. This only applies to SNMP Version 1 traps.

Output Example: xylanSwitchDevice

\$TrapV1EnterpriseOID\$

The enterprise object identifier number. This only applies to SNMP Version 1 traps.

Output Example: .1.3.6.1.4.1.800.3.1.1

\$TrapV1GenericID\$

The generic trap number. This only applies to SNMP Version 1 traps.

Output Example: 6

\$TrapV1SpecificID\$ The enterprise trap number. This only applies to SNMP Version 1 traps.

Output Example: 10

\$TrapVariables\$ Describes all of the variables in the trap.

\$TrapVariable[1]\$, \$TrapVariable[2]\$... Accesses the first (second, etc.) variable in the trap.

\$TrapVariable[someVariableName]\$ Accesses the trap variable by its name.