

cnMatrix Auto Attach Parameters and Commands

Commands	Description	CLI Mode
<code>debug auto-attach [trace { error warning info debug }] [dump { rule action policy prec ifc }]</code>	Enables debug options for the Auto-Attach module.	Privileged EXEC
<code>no debug auto-attach</code>	Disables the trace option for the Auto-Attach module.	Privileged EXEC
<code>show auto-attach global</code>	Displays the Auto-Attach global configuration details.	Privileged EXEC
<code>show auto-attach interface [<iftype> <ifnum>]</code>	Displays the Auto-Attach per-interface configuration details.	Privileged EXEC
<code>show auto-attach action [name <string(20)>]</code>	Displays the Auto-Attach action table contents.	Privileged EXEC
<code>show auto-attach rule [name <string(20)>]</code>	Displays Auto-Attach rule table contents.	Privileged EXEC
<code>show auto-attach policy [name <string(20)>] [{detail interface statistics}]</code>	Displays Auto-Attach policy table contents.	Privileged EXEC
<code>show auto-attach script [{cnPilot}]</code>	Displays configured Auto-Attach device script data.	Privileged EXEC
<code>auto-attach</code>	Enables the Auto-Attach feature on the system.	Global Configuration
<code>no auto-attach</code>	Disables the Auto-Attach feature on the system.	Global Configuration
<code>auto-attach default (Starting with version 2.1)</code>	Resets the Auto-Attach interface-specific settings for that one interface to their default values.	Interface Configuration
<code>auto-attach default</code> Starting with version 2.1 , the <code>interface</code> parameter has been added so that you can reset all the Auto-Attach interface-specific settings for all interfaces to their default values.	Resets all the Auto-Attach settings to the default values for all interfaces and the following parameters: Auto-Attach Status, String Comparison and Update Port Description.	Global Configuration
<code>auto-attach string-comparison { case-sensitive ignore-case }</code> Available options: <code>case-sensitive</code> - Performs case-sensitive device data comparisons. <code>ignore-case</code> - Ignores case for device data comparisons.	Configures the device data string comparison mode.	Global Configuration
<code>auto-attach action <action-name(20)> ([vlan <vlan-list(99)>] [pvid <vlan(1-4094)>] [switch-port-mode hybrid])</code> Available options: <code><action-name(20)></code> - Unique action set name. <code>vlan</code> - Specifies the list of VLANs. <code><vlan-list(99)></code> - List of 1..20 comma-separated VLANs. <code>pvid</code> - Specifies default port VLAN. <code><vlan></code> - Default VLAN from VLAN list. <code>switch-port-mode</code> - Update switch port mode for the interface.	Configures the Auto-Attach action entries.	Global Configuration

Commands	Description	CLI Mode
<code>hybrid</code> – Updates the switch port mode to Hybrid. Starting with version 2.1: <code>access</code> – Updates the switch port mode to Access. <code>trunk</code> – Updates the switch port mode to Trunk. Starting with version 2.1, the following parameters have been added: <code>user-priority - 0..7.</code> <code>qos-trust</code> – Updates the QoS trusted mode. <code>dot1p</code> – Updates the trusted mode based on vlan priority value. <code>dscp</code> - Updates the trusted mode based on dscp value. <code>untrusted</code> - Set as QoS untrusted. <code>poe-priority</code> – Updates the PoE priority mode. <code>critical</code> – Updates the PoE priority to critical. <code>high</code> – Updates the PoE priority to high. <code>low</code> – Updates the PoE priority to low. <code>uplink</code> - Creates uplink ports (maximum 4 uplinks including physical ports and port-channels)		
<pre>no auto-attach action <string(20)></pre>	Deletes the Auto-Attach action entries.	Global Configuration
<pre>auto-attach rule <string(20)> { LLDP-ANY LLDP-CAP LLDP-SYS-NAME LLDP-SYS-DESC LLDP-CHASSIS LLDP-PORT LLDP-PORT-DESC } <string(60)></pre> Starting with version 2.1: <pre>auto-attach rule <string(20)> { LLDP-ANY LLDP-CAP LLDP-CHASSIS LLDP-IPV4-MGMT LLDP-PORT LLDP-PORT-DESC LLDP-SYS-DESC LLDP-SYS-NAME MAC-FULL MAC-OUI MAC-RANGE } <string(60)></pre> Available options: <code><rule-name(20)></code> - Unique rule name. <code>LLDP-ANY</code> – Searches in multiple LLDP TLVs for device ID data. <code>LLDP-CAP</code> - Matches LLDP Capabilities TLV data (comma-separated combination of 'bridge', 'wlan', 'router', 'phone', 'station', 'repeater', 'docsis', 'other'). <code>LLDP-SYS-NAME</code> – Searches in the LLDP System Name TLV for device ID data. <code>LLDP-SYS-DESC</code> – Searches in the LLDP System Description TLV for device ID data. <code>LLDP-CHASSIS</code> – Searches in the LLDP Chassis ID TLV for device ID data. <code>LLDP-PORT</code> - Search LLDP Port ID TLV for device ID data. <code>LLDP-PORT-DESC</code> – Searches in the LLDP	Configures the Auto-Attach rule entries.	Global Configuration

Commands	Description	CLI Mode
Port Description TLV for device ID data. • <code><device-desc (60)></code> - Targets the device identification data. Starting with version 2.1, the following parameters have been added: • <code>MAC-FULL</code> - Searches for full MAC address. • <code>MAC-OUI</code> - Searches for MAC OUI address. • <code>MAC-RANGE</code> - Searches for MAC range addresses. • <code>LLDP-IPV4-MGMT</code> - Search LLDP IPv4 ID TLV for device ID data.		
<pre>no auto-attach rule <rule-name(20)></pre>	Deletes the Auto-Attach rule entries.	Global Configuration
<pre>auto-attach policy <string(20)> match { rule <string(20)> { LLDP-ANY LLDP-CAP LLDP-SYS-NAME LLDP-SYS-DESC LLDP-CHASSIS LLDP-PORT LLDP-PORT-DESC } <string(60)> } set { action <string(20)> vlan <string(99)> [pvid <integer(1-4094)>] [switch-port-mode hybrid] switch-port-mode hybrid } [precedence <integer(1-100)>] [{ enable disable }]</pre> Starting with version 2.1: <pre>auto-attach policy <string(20)> match { rule <string(20)> { LLDP-ANY LLDP-CAP LLDP-SYS-NAME LLDP-SYS-DESC LLDP- CHASSIS MAC-FULL MAC-OUI } <string(60)> } set { action <string(20)> vlan <string(99)> [pvid <integer(1-4066)>] [switch-port-mode hybrid/access/trunk] } [precedence <integer(1-100)>] [{ enable disable }]</pre> Available options: • <code>policy</code> – Configures the Auto-Attach policy data. • <code><policy-name (20)></code> - Unique policy name. • <code>match</code> – Specifies the device match criteria. • <code>rule</code> – Specifies the rule table entry. • <code><rule-name(20)></code> - Unique rule name. • <code>LLDP-ANY</code> - Search multiple LLDP TLVs for device ID data. • <code>LLDP-CAP</code> – Matches the LLDP Capabilities TLV data (comma-separated combination of 'bridge', 'wlan', 'router', 'phone', 'station', 'repeater', 'docsis', 'other'). • <code>LLDP-SYS-NAME</code> – Searches in the LLDP System Name TLV for device ID data. • <code>LLDP-SYS-DESC</code> – Searches in the LLDP System Description TLV for device ID data. • <code>LLDP-CHASSIS</code> – Searches in the LLDP Chassis ID TLV for device ID data. • <code>LLDP-PORT</code> – Searches in the LLDP Port ID TLV for device ID data. • <code>LLDP-PORT-DESC</code> – Searches in the LLDP Port Description TLV for device ID data.	Configures the Auto-Attach policy entries.	Global Configuration

Commands	Description	CLI Mode
<code><device-desc(60)></code> - Targets the device identification data. <code>set</code> - Specifies the action criteria. <code>action</code> - Specifies the action table entry. <code><action-name(20)></code> - Unique action name <code>vlan</code> - Specifies the list of VLANs. <code><vlan-list(99)></code> - List of 1..20 comma-separated VLANs. <code>pvid</code> - Specifies the default port VLAN. <code><vlan></code> - Default VLAN from VLAN list. <code>switch-port-mode</code> - Updates the switch port mode for the interface. <code>switch-port-mode</code> - Updates the switch port mode for the interface. <code>hybrid</code> - Updates the switch port mode to Hybrid. <code>precedence</code> - Policy precedence value. <code><value(1-100)></code> - Precedence. <code>enable</code> - Enables policy. <code>disable</code> - Disables policy. Starting with version 2.1, the following parameters have been added: <code>MAC-FULL</code> - Searches for the full MAC address. <code>MAC-OUI</code> - Searches for the MAC OUI address.		
<pre>auto-attach policy <string(20)> ([precedence <integer(1-100)>] [{ enable disable }])</pre> Available options: <code><policy-name(20)></code> - Unique policy name. <code>precedence</code> - Policy precedence value. <code><value(1-100)></code> - Precedence. <code>enable</code> - Enables policy. <code>disable</code> - Disables policy.	Updates the Auto-Attach policy information.	Global Configuration
<pre>no auto-attach policy <string(20)></pre>	Deletes the Auto-Attach policy entries.	Global Configuration
<pre>clear auto-attach policy statistics [<string(20)>]</pre> Available options: <code><policy-name(20)></code> - Unique policy name	Clears Auto-Attach policy-related statistics.	Global Configuration
<pre>auto-attach script {cnPilot} vlan <vlan- list(99)> [pvid <vlan(1-4066)>]</pre> Available options: <code>cnPilot</code> - Configures cnPilot device detection. <code>vlan</code> - Specifies the list of VLANs. <code><vlan-list(99)></code> - List of 1..20 comma-separated VLANs. <code>pvid</code> - Specifies the default port VLAN. <code><vlan></code> - Default VLAN from VLAN list.	Creates Auto-Attach device script configuration.	Global Configuration
<pre>no auto-attach script {cnPilot}</pre>	Deletes the Auto-Attach script configuration data.	Global Configuration
<pre>(no) auto-attach msg-auth-status</pre> (Starting with version 2.1)	Enables/Disables the authentication for the auto attach pushed policies.	Interface Configuration
<pre>auto-attach msg-auth-key <private-</pre>	Creates a custom authentication key for the	Interface

Commands	Description	CLI Mode
<code>key(32) > (Starting with version 2.1)</code>	auto attach pushed policy.	Configuration
Starting with version 2.1 <code>auto-attach update-port-desc lldp-sys-description/lldp-sys-name/pba-policy-name</code> Available options: • <code>lldp-sys-description</code> - Changes the interface description based on LLDP System Description TLV information. • <code>lldp-sys-name</code> - Changes the interface description based on LLDP System Name TLV information. • <code>pba-policy-name</code> - Changes the interface description according to auto attach policy name.	Sets the interface description based on the auto attach information.	Global Configuration
<code>auto-attach</code>	Enables the Auto-Attach feature on the target interface.	Interface Configuration
<code>no auto-attach</code>	Disables the Auto-Attach feature on the target interface.	Interface Configuration
<code>clear auto-attach statistics</code>	Clears the Auto-Attach interface-related statistics.	Interface Configuration