

Firmware Support

Extreme Networks Extreme Control Center (formerly NetSight)*

Version 7.0 March, 2016

This document provides firmware support information for the following Extreme Control Center applications:

- Extreme Control Center Product Support
- NAC Manager Firmware Support
- Policy Manager Firmware Support
- Inventory Manager Firmware Support
- ACL Manager Firmware Support
- Automated Security Manager Firmware Support
- OneView Firmware Support
- ExtremeWireless Firmware Support

Extreme Control Center Product Support

Extreme Control Center is designed to support the following Extreme Networks hardware product families. Refer to the Firmware Release Notes for the list of MIBs supported for the following product families.

7100-Series G-Series Summit Series 800-Series I-Series E4G Series

A-Series K-Series B-Series S-Series

C-Series ExtremeWireless
D-Series BlackDiamond Series

Extreme Control Center supports up to 2500 devices. SNMP must be configured on your devices to allow them to be managed by Extreme Control Center.

NAC Manager Firmware Support

NAC Manager supports the following Extreme Networks and 3rd-party hardware products and firmware versions:

7100-Series 8.22.xx 8.31.xx 8.32.xx 8.42.xx 8.42.xx 800-Series 1.02.01.xx A4 6.61.xx 6.71.xx 6.81.xx B5/C5 6.61.xx 6.71.xx 6.81.xx D-Series 6.03.xx E4G Series 15.4.1.3-patch1-2 or higher ExtremeWireless Controller 9.12.xx 9.15.xx 9.21.xx 10.01.xx 13 6.42.xx 6.61.xx K-Series 8.02.xx 8.31.xx 8.32.xx 8.42.xx 8.42.xx S-Series 8.02.xx 8.31.xx 8.32.xx 8.42.xx 8.42.xx BlackDiamond Series 15.4.1.3-patch1-2 or higher Summit Series 15.4.1.3-patch1-2 or higher HP ProCurve Switch 5304XL E.05.04 HP ProCurve Switch 2824 I.08.98 Cisco Catalyst 4500R 12.1(12c)EW Cisco 3750 12.2(35)SE2	Product	Firmware Version
8.32.xx 8.42.xx 800-Series 1.02.01.xx A4 6.61.xx 6.71.xx 6.81.xx B5/C5 6.61.xx 6.71.xx 6.81.xx D-Series 6.03.xx E4G Series 15.4.1.3-patch1-2 or higher ExtremeWireless Controller 9.12.xx 9.15.xx 9.21.xx 10.01.xx 10.01.xx I3 6.42.xx 6.61.xx 8.02.xx 8.31.xx 8.32.xx 8.42.xx 8.02.xx 8.31.xx 8.32.xx 8.42.xx 8.42.xx BlackDiamond Series 15.4.1.3-patch1-2 or higher Summit Series 15.4.1.3-patch1-2 or higher HP ProCurve Switch 5304XL E.05.04 HP ProCurve Switch 2824 I.08.98 Gisco Catalyst 4500R 12.1(12c)EW	7100-Series	8.22.xx
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HP ProCurve Switch 5304XL E.05.04 HP ProCurve Switch 2824 I.08.98 Cisco Catalyst 4500R 12.1(12c)EW	BlackDiamond Series	15.4.1.3-patch1-2 or higher
HP ProCurve Switch 2824 I.08.98 Cisco Catalyst 4500R 12.1(12c)EW	Summit Series	15.4.1.3-patch1-2 or higher
Cisco Catalyst 4500R 12.1(12c)EW	HP ProCurve Switch 5304XL	E.05.04
	HP ProCurve Switch 2824	I.08.98
Cisco 3750 12.2(35)SE2	Cisco Catalyst 4500R	12.1(12c)EW
	Cisco 3750	12.2(35)SE2
12.2(25)SEE2		12.2(25)SEE2
Cisco 2950 12.1(22)EA5	Cisco 2950	12.1(22)EA5
Cisco Wireless(1) 7.2.110.0	Cisco Wireless(1)	7.2.110.0

¹For a complete list of Cisco Wireless devices, refer to the Cisco Release Notes for Firmware Version 7.2.110.0.

Identity and Access VPN Integration Requirements

This section lists the VPN concentrators that are supported for use in Identity and Access VPN Deployment scenarios.

Supported Functionality: Authentication and Authorization (policy enforcement)
Cisco ASA
Enterasys XSR

Supported Functionality: Authentication Juniper SA (requires an S-Series Stand Alone (SSA) system in order to provide access control)

NOTE: For all Identity and Access VPN Deployment scenarios, an S-Series Stand Alone (SSA) system is required to change authorization levels beyond the initial authorization, for example, when using assessment.

Policy Manager Firmware Support

<u>Section 1</u> lists the hardware products and firmware versions supported by Policy Manager.

<u>Section 2</u> lists the Policy Manager feature sets for the supported products. <u>Section 3</u> lists the Access Control and CoS Classification Rule Support for the supported products.

Section 1: Product/Firmware Versions Supported

Policy Manager supports the following Extreme Networks hardware products and firmware versions:

Product	Firmware Version
7100-Series	8.22.xx 8.31.xx 8.32.xx 8.42.xx
A4	6.61.xx 6.71.xx 6.81.xx
B5/C5	6.61.xx 6.71.xx 6.81.xx
D-Series	6.03.xx
Summit 440G2/620	21.1.1.xx
Summit 450G2/460G2/670G2/770G2	16.1.1.xx 21.1.1.xx
ExtremeWireless Controller	9.12.xx 9.15.xx 9.21.xx 10.01.xx
13	6.42.xx 6.61.xx
K-Series	8.02.xx 8.31.xx 8.32.xx 8.42.xx
S-Series	8.02.xx 8.31.xx 8.32.xx 8.42.xx

Section 2: Policy Manager Feature Support

- 7100-Series
- <u>A4</u>
- B5/C5
- D2
- Summit 440G2/620
- Summit 450G2/460G2/670G2/770G2
- 13
- K-Series/S-Series
- ExtremeWireless Controller

Feature Support 7100-Series

	7100-Series
Functionality	8.22.xx 8.31.xx 8.32.xx 8.42.xx
Authentication Support	X
802.1X	X
MAC	X
MAC Mask	Χ
Web-Based	X
CEP	X
Quarantine	X(1)
Auto Tracking	X(1)
Global Authentication Settings: Authentication Timeout	X X
Current # of Authenticated Users	X
Multi-Users per Port	X
RFC3580 VLAN Authorization	X
RFC3580 VLAN Egress	X
RADIUS Support	Х
RADIUS Accounting	Χ
RADIUS Response Mode	Х
Priority Support (802.1p)	Χ
Policy Support	Χ
Policy-based VLAN Egress	Χ
Tagged Packet VLAN to Role Mapping	-
Authentication-based VLAN to Role Mapping	X
IP to Role Mapping MAC to Role Mapping	- X(2)
Rule Accounting	^(2)
Port Disabled on Rule Hit	_
Disable Traffic Classify Type	-
Clear Rule Usage	-
Invalid Policy Action	Χ
Passive Domain Mode	-
Role-Based Actions:	-
TCI Overwrite	X(3)
SysLog/AuditTrap/DisablePort	-
Role-Based Traffic Mirror	-
Rule-Hit Actions:	_
SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror	_
Rule-Based TCI Overwrite	_
Egress Policy	-
Rate Limiting	X
MAC Locking	X
ToS/DSCP Rewrite	X
Anti-Spoofing	=

¹Supported on 8.20.xx and higher.
²Only Port-level Source MAC to Role Mappings supported.
³TCI Overwrite functionality for a role is enabled by default on the 7100-Series device and cannot be changed via Policy Manager. Policy Manager ignores this setting.

Feature Support A4

Functionality 6.61.xx 6.71.xx 6.71.xx Authentication Support 802.1X MAC MAC MAC MAC MAC MAC X Mac MAC X Meb-Based X CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port X(2) RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Response Mode X Priority Support (802.1p) Policy Support Policy-based VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit		A4 Firmware Version
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RADIUS Accounting RADIUS Response Mode X Priority Support (802.1p) X Policy Support Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit X(4) X(5) X Tagged Packet VLAN to Role Mapping X IP to Role Mapping	RFC3580 VLAN Egress	X
RADIUS Response Mode X Priority Support (802.1p) X Policy Support X(4) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping X(5) Authentication-based VLAN to Role Mapping X IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -	RADIUS Support	
Priority Support (802.1p) X Policy Support X(4) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping X(5) Authentication-based VLAN to Role Mapping X IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -		X(3)
Policy Support X(4) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping X(5) Authentication-based VLAN to Role Mapping X IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -	RADIUS Response Mode	X
Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping X(5) Authentication-based VLAN to Role Mapping X IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -	Priority Support (802.1p)	Χ
Tagged Packet VLAN to Role Mapping X(5) Authentication-based VLAN to Role Mapping X IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -	Policy Support	X(4)
Authentication-based VLAN to Role Mapping X IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -	Policy-based VLAN Egress	X
IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -		X(5)
MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit -	· · · ·	X
Rule Accounting - Port Disabled on Rule Hit -	5	-
Port Disabled on Rule Hit -	5	-
	-	-
DiLI- Tff:- Clif- T		-
Disable Traffic Classify Type - Clear Rule Usage -		-
Invalid Policy Action -	5	_
Passive Domain Mode -	•	_
Role-Based Actions:		_
SysLog/AuditTrap/DisablePort -		-
Role-Based Traffic Mirror	,	-
Rule-Hit Actions:	Rule-Hit Actions:	-
SysLog/AuditTrap/DisablePort Prohibit -	SysLog/AuditTrap/DisablePort Prohibit	-
Rule-Based Traffic Mirror -	Rule-Based Traffic Mirror	-
Rule-Based TCI Overwrite -		-
Egress Policy -	Egress Policy	
Rate Limiting X(6)	Rate Limiting	X(6)
MAC Locking X	MAC Locking	Χ
ToS/DSCP Rewrite X	ToS/DSCP Rewrite	X
Anti-Spoofing -	Anti-Spoofing	-

 $^{^{1}}$ Supported on 6.71.xx and higher.

²One authenticated user and one VoIP phone (with VLAN tagged VoIP traffic) per port.

³Supported on 6.81.xx and higher.

⁴See Firmware Release Notes for details.

⁵This feature will not work properly unless the "Number of Users Allowed" attribute on a port is set to 2 or more. Only one device-level VLAN to Role mapping is supported.

⁶Priority-Based rate limits inbound only. GE ports - 8 rate limits (Priority 0 only); FE ports - 2 rate limits (Priorities 0,1,2,3 and 4,5,6,7). Role-Based rate limits supported.

Feature Support B5/C5

	B5/C5 Firmware Version
	6.61.xx
Functionality	6.71.xx 6.81.xx
	X
Authentication Support 802.1X	X(1)
MAC	X(1)
MAC Mask	X
Web-Based	X(1)
CEP	X(2)
Quarantine	-
Auto Tracking	-
Global Authentication Settings:	X
Authentication Timeout	X
Current # of Authenticated Users	X
Multi-Users per Port	X(3)
RFC3580 VLAN Authorization	X
RFC3580 VLAN Egress	X
RADIUS Support	X
RADIUS Accounting	X(4)
RADIUS Response Mode	X
Priority Support (802.1p)	X
Policy Support	X
Policy-based VLAN Egress	X
Tagged Packet VLAN to Role Mapping	X(5)
Authentication-based VLAN to Role Mapping	X
IP to Role Mapping	-
MAC to Role Mapping	-
Rule Accounting	-
Port Disabled on Rule Hit	-
Disable Traffic Classify Type	-
Clear Rule Usage Invalid Policy Action	_
Passive Domain Mode	_
Role-Based Actions:	_
SysLog/AuditTrap/DisablePort	_
Role-Based Traffic Mirror	_
Rule-Hit Actions:	-
SysLog/AuditTrap/DisablePort Prohibit	-
Rule-Based Traffic Mirror	-
Rule-Based TCI Overwrite	-
Egress Policy	-
Rate Limiting	X(6)
MAC Locking	X
ToS/DSCP Rewrite	X
Anti-Spoofing	-
4	

¹Can be enabled at the device-level and port-level with a maximum of four concurrent active sessions. However, there can be only one active Web-Based (PWA) session at a time.

²Supported on 6.71.xx only. CEP detection is not supported.

³B5 supports four users per port. C5 supports eight users per port. See Firmware Release Notes.

⁴Supported on 6.81.xx and higher.

⁵This feature will not work properly unless the "Number of Users Allowed" attribute on a port is set to 2 or more. Supported on both device and port level, but only one mapping is allowed at the device level and on each port. ⁶For Role-Based Rate Limiting, any rate limit specified by a Class of Service in a rule will be ignored. Only the role's Default Class of Service is used to specify the rate limit and this rate limit is applied to all traffic using this role.

Feature Support D2

	D2 Firmware Version
Functionality	1.00.xx 6.03.xx
Authentication Support 802.1X MAC MAC Mask Web-Based CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress	X X(1) X(1) X X(1) - - X X X X X(2,3) X
RADIUS Support RADIUS Accounting RADIUS Response Mode	X - X(4)
Priority Support (802.1p)	X
Policy Support Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based Trol Overwrite Egress Policy	X(1) X X(5) X - - - - - - - - - - - - -
Rate Limiting	X(6)
MAC Locking	X(3)
ToS/DSCP Rewrite	X(7)
Anti-Spoofing	

¹Can be enabled at the device-level and port-level, but there can be only one active session at a time.

²Supports one authenticated user and one VoIP phone (with VLAN tagged VoIP traffic) per port.

³Dynamic MAC locking supported. Static MAC Locking supported only if Policy support is enabled.

⁴The Filter ID with VLAN Tunnel Attribute mode (Hybrid Mode) is not supported on D2 devices.

⁵This feature will not work properly, unless the "Number of Users Allowed" attribute on a port is set to 2 or more. Only one device-level VLAN to Role mapping is supported.

⁶Priority-Based rate limits inbound only. GE ports - 8 rate limits (Priority 0 only); FE ports - 2 rate limits (Priorities 0,1,2,3 and 4,5,6,7). Role-Based rate limits supported.

⁷Only if Policy Support is enabled.

Feature Support Summit 440G2/620

	Summit 440G2/620 Firmware Version
Functionality	21.1.1.xx
Authentication Support 802.1X MAC MAC Mask Web-Based CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port	X X X X - - - - X X X X(1)
RFC3580 VLAN Authorization RFC3580 VLAN Egress	X X
RADIUS Support RADIUS Accounting RADIUS Response Mode	X X X
Priority Support (802.1p)	X
Policy Support Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: TCI Overwrite SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based TCI Overwrite Egress Policy	X X - X(2) - - - - X(3) - - - -
Rate Limiting	X
MAC Locking	X
ToS/DSCP Rewrite	Х
Anti-Spoofing	-

¹Supports Active/Default and Active/Discard Only.
²Only Port-level MAC (Source)-to-Role Mappings supported.
³TCI Overwrite functionality can only be enabled for the Role.

Feature Support Summit 450G2/460G2/670G2/770G2

	Summit 450G2/460G2/670G2/770G2 Firmware Version
Functionality	16.1.1.xx 21.1.1.xx
Authentication Support 802.1X MAC MAC Mask Web-Based CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port	X X X X - - - - X X X X(1)
RFC3580 VLAN Authorization RFC3580 VLAN Egress	X X
RADIUS Support RADIUS Accounting RADIUS Response Mode	X X X
Priority Support (802.1p)	X
Policy Support Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: TCI Overwrite SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror	X
Rule-Based TCI Overwrite Egress Policy	-
Rate Limiting	X
MAC Locking ToS/DSCP Rewrite	X X
Anti-Spoofing	X -
And Spooning	

¹Supports Active/Default and Active/Discard Only.
²Only Port-level MAC (Source)-to-Role Mappings supported.
³TCI Overwrite functionality can only be enabled for the Role.

Feature Support 13

Functionality Authentication Support 802.1X X(1) MAC MAC MAC Mask Web-Based CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Recounting RADIUS Response Mode Priority Support (802.1p) X Policy Support (802.1p) X Policy Support (802.1p) Policy Support (802.1p) Policy Support (802.1p) Authentication-based VLAN to Role Mapping Authentication-based VLAN to Role Mapping Pror Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Tra		I3 Firmware Version
Authentication Support X 802.1X X(1) MAC X(1) MAC Mask X Web-Based X(1) CEP - Quarantine - Auto Tracking - Global Authentication Settings: - Authentication Timeout - Current # of Authenticated Users - Multi-Users per Port - RFC3580 VLAN Authorization X RFC3580 VLAN Egress X RADIUS Support X RADIUS Response Mode - Priority Support (802.1p) X Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage -		6.42.xx
802.1X MAC MAC MAC MAC MASK Web-Based X(1) CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RADIUS Support RADIUS Support RADIUS Support RADIUS Support RADIUS Response Mode Priority Support (802.1p) Policy-based VLAN Egress X X X X X X X X X X X X X	Functionality	6.61.xx
MAC Mask X Web-Based X(1) CEP	Authentication Support	
MAC Mask Web-Based X(1) CEP Quarantine Auto Tracking Global Authentication Settings:		
Web-Based CEP Quarantine Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Support RADIUS Response Mode Priority Support (802.1p) Policy Support Policy-based VLAN Egress X X X X X X X X X X X X X		
CEP Quarantine Auto Tracking Global Authentication Settings:		
Quarantine Auto Tracking Global Authentication Settings:		X(1)
Auto Tracking Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Accounting RADIUS Response Mode Priority Support (802.1p) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Authentication Based VLAN to Role Mapping IP to Role Mapping Fort Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror		-
Global Authentication Settings: Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Response Mode Priority Support (802.1p) Policy Support Authentication-based VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Rule-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Tro Overwrite Egress Policy X MAC Locking X Tos/DSCP Rewrite	-	-
Authentication Timeout Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Response Mode Priority Support (802.1p) Policy-based VLAN Egress X X X X X X X X X X X X		-
Current # of Authenticated Users Multi-Users per Port RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Accounting RADIUS Response Mode Priority Support (802.1p) Policy Support (802.1p) Authentication-based VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage - Invalid Policy Action - Passive Domain Mode - Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite	5	_
Multi-Users per Port - RFC3580 VLAN Authorization X RFC3580 VLAN Egress X RADIUS Support X RADIUS Response Mode - Priority Support (802.1p) X Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Mac to Role Mapping - Super Clear Rule Usage - Invalid Policy Action - Passive Domain Mode Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror Rule-Based Traffic Mirror - Rule-Based Traffic		_
RFC3580 VLAN Authorization RFC3580 VLAN Egress X RADIUS Support RADIUS Accounting RADIUS Response Mode		_
RFC3580 VLAN Egress X RADIUS Support X RADIUS Response Mode - Priority Support (802.1p) X Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage - Invalid Policy Action - Passive Domain Mode Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based Traff		
RADIUS Support RADIUS Accounting RADIUS Response Mode Priority Support (802.1p) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror		
RADIUS Accounting RADIUS Response Mode Priority Support (802.1p) Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage - Invalid Policy Action - Passive Domain Mode Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite	RFC3580 VLAN Egress	Х
RADIUS Response Mode Priority Support (802.1p) Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage - Invalid Policy Action - Passive Domain Mode Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite	RADIUS Support	X
Priority Support (802.1p) Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage - Invalid Policy Action - Passive Domain Mode - Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X	5	-
Policy Support X(2) Policy-based VLAN Egress X Tagged Packet VLAN to Role Mapping - Authentication-based VLAN to Role Mapping - IP to Role Mapping - MAC to Role Mapping - Rule Accounting - Port Disabled on Rule Hit - Disable Traffic Classify Type - Clear Rule Usage - Invalid Policy Action - Passive Domain Mode - Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite	RADIUS Response Mode	
Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based TCI Overwrite Egress Policy Rate Limiting X MAC Locking ToS/DSCP Rewrite	Priority Support (802.1p)	X
Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based TCI Overwrite Egress Policy Rate Limiting X MAC Locking ToS/DSCP Rewrite	Policy Support	X(2)
Authentication-based VLAN to Role Mapping IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based To Overwrite Egress Policy Rate Limiting X MAC Locking X ToS/DSCP Rewrite	Policy-based VLAN Egress	
IP to Role Mapping MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based To Overwrite Egress Policy Rate Limiting X MAC Locking X ToS/DSCP Rewrite	Tagged Packet VLAN to Role Mapping	-
MAC to Role Mapping Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based To Overwrite Egress Policy Rate Limiting X MAC Locking X ToS/DSCP Rewrite	Authentication-based VLAN to Role Mapping	-
Rule Accounting Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror	IP to Role Mapping	-
Port Disabled on Rule Hit Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror	MAC to Role Mapping	-
Disable Traffic Classify Type Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based TCI Overwrite Egress Policy Rate Limiting X MAC Locking X ToS/DSCP Rewrite	3	-
Clear Rule Usage Invalid Policy Action Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror		-
Invalid Policy Action - Passive Domain Mode - Role-Based Actions: - SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		-
Passive Domain Mode Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based Traffic Mirror Rule-Based TCI Overwrite Egress Policy Rate Limiting X MAC Locking ToS/DSCP Rewrite	5	-
Role-Based Actions: SysLog/AuditTrap/DisablePort Role-Based Traffic Mirror Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based TCI Overwrite Egress Policy Rate Limiting X MAC Locking ToS/DSCP Rewrite		-
SysLog/AuditTrap/DisablePort - Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		-
Role-Based Traffic Mirror - Rule-Hit Actions: - SysLog/AuditTrap/DisablePort Prohibit - Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		-
Rule-Hit Actions: SysLog/AuditTrap/DisablePort Prohibit	, , , , , , , , , , , , , , , , , , , ,	_
SysLog/AuditTrap/DisablePort Prohibit Rule-Based Traffic Mirror Rule-Based TCI Overwrite Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		_
Rule-Based Traffic Mirror - Rule-Based TCI Overwrite - Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		_
Rule-Based TCI Overwrite Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		_
Egress Policy - Rate Limiting X MAC Locking X ToS/DSCP Rewrite X		-
MAC Locking X ToS/DSCP Rewrite X		-
ToS/DSCP Rewrite X	Rate Limiting	X
	MAC Locking	Х
Anti-Spoofing -	ToS/DSCP Rewrite	X
	Anti-Spoofing	-

 $^{^{1}}$ Can be enabled at the device-level and port-level, but there can only be one active session at a time. 2 See Firmware Release Notes for details.

Feature Support K-Series/S-Series

	K-Series/S-Series Firmware Version
	8.21.xx
	8.31.xx
Functionality	8.32.xx 8.42.xx
Authentication Support 802.1X	X(1) X
MAC	X
MAC Mask	X
Web-Based	X
CEP	Χ
Quarantine	X(2)
Auto Tracking	X(2)
Global Authentication Settings:	X
Authentication Timeout	X
Current # of Authenticated Users	X
Multi-Users per Port	X
RFC3580 VLAN Authorization	X
RFC3580 VLAN Egress	X
RADIUS Support	X
RADIUS Accounting	X
RADIUS Response Mode	X
Priority Support (802.1p)	X
Policy Support	X
Policy-based VLAN Egress	X
Tagged Packet VLAN to Role Mapping	X
Authentication-based VLAN to Role Mapping	X
IP to Role Mapping	X
MAC to Role Mapping	X
Rule Accounting	X
Port Disabled on Rule Hit	X
Disable Traffic Classify Type	X
Clear Rule Usage	X
Invalid Policy Action	X
Passive Domain Mode	X
Role-Based Actions:	X
SysLog/AuditTrap/DisablePort	X
Role-Based Traffic Mirror	X X
Rule-Hit Actions:	
SysLog/AuditTrap/DisablePort Prohibit	X
Rule-Based Traffic Mirror Rule-Based TCI Overwrite	X X
Egress Policy	X(3)
Rate Limiting	X(4)
MAC Locking	X
ToS/DSCP Rewrite	X
Anti-Spoofing	X(2)

 $^{^{1}}$ The maximum number of users per device can be increased if an appropriate key is entered using the CLI on the device. Refer to the firmware documentation for more details.

²Supported on 8.02.xx and later only. ³Supported on 7.31.xx and later only. ⁴Priority-Based rate limits not supported.

Feature Support ExtremeWireless Controller

	ExtremeWireless Controller
Functionality	9.12.xx 9.15.xx 9.21.xx 10.01.xx
	10.01.22
Authentication Support 802.1X	
MAC	_
MAC Mask	_
Web-Based	-
CEP	-
Quarantine	-
Auto Tracking	-
Global Authentication Settings:	-
Authentication Timeout	-
Current # of Authenticated Users	-
Multi-Users per Port	-
RFC3580 VLAN Authorization	-
RFC3580 VLAN Egress	-
	V(1)
RADIUS Support RADIUS Accounting	X(1) X(2)
RADIUS Response Mode	A(2)
Priority Support (802.1p)	
, , , ,	V
Policy Support	X (2)
Policy-based VLAN Egress Tagged Packet VLAN to Role Mapping	X(3)
Authentication-based VLAN to Role Mapping	_
IP to Role Mapping	_
MAC to Role Mapping	_
Rule Accounting	-
Port Disabled on Rule Hit	-
Disable Traffic Classify Type	-
Clear Rule Usage	-
Invalid Policy Action	-
Passive Domain Mode	-
Role-Based Actions:	-
SysLog/AuditTrap/DisablePort	-
Role-Based Traffic Mirror	-
Rule-Hit Actions:	-
SysLog/AuditTrap/DisablePort Prohibit	-
Rule-Based Traffic Mirror	-
Rule-Based TCI Overwrite	-
Egress Policy	
Rate Limiting	X(4)
MAC Locking	-
ToS/DSCP Rewrite	-
Anti-Spoofing	-
1The DADTHC Authorities Client Ctatus will die	

 $^{^1}$ The RADIUS Authentication Client Status will display the current read-only setting. The status is automatically set to Enabled by the device when one or more RADIUS authentication servers are added.

 $^{^2}$ RADIUS accounting set up is configurable via Policy Manager. However, the ability to enable RADIUS accounting on an SSID is not configurable via Policy Manager.

³ Supported on 8.31.xx and later only.

⁴Only the role's Default Action Class of Service is used to specify rate limits for the ExtremeWireless Controller. Role-Based rate limit is per user.

Section 3: Access Control/CoS Classification Rule Support

- 7100-Series
- <u>A4</u>
- B2/C2/D2 and B3/C3/G3/B5/C5
- Summit 440G2/620
- Summit 450G2/460G2/670G2/770G2
- 13
- K-Series and S-Series
- ExtremeWireless Controller
- <u>A2</u>

Rule Support 7100-Series

		7100-Series	
		Access Control	CoS
Layer 2	Ethertype	Permit/Deny (Ethertype w/ masking)	YES (Ethertype w/ masking)
	DSAP/SSAP	NO	NO
	MAC Address Source/ Destination/Bilateral	Permit/Deny (MAC w/ masking)	YES (MAC w/ masking)
	VLAN ID	NO	NO
	Priority	NO	NO
Layer 3	IP Type of Service	Permit/Deny (TOS w/ masking)	YES (TOS w/ masking)
	IP Protocol Type	Permit/Deny (Protocol w/ masking)	YES (Protocol w/ masking)
	IP Address Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)
	IP Socket Source/ Destination/Bilateral	Permit/Deny (port w/ masking)	YES (port w/ masking)
	IP Fragment	Permit/Deny	YES
	IPX Class of Service	NO	NO
	IPX Packet Type	NO	NO
	IPX Network Source/ Destination/Bilateral	NO	NO
	IPX Socket Source/ Destination/Bilateral	NO	NO
	ICMP	NO	NO
	IPv6 Address Destination	Permit/Deny (IP w/ masking)	YES (IP w/ masking)
	IPv6 Socket Source/ Destination/Bilateral	NO	NO
	IPv6 Flow Label	NO	NO
	ICMPv6	NO	NO
	IP Time to Live (TTL)	Permit/Deny	YES
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny (IP w/ masking)	YES (IP w/ masking)
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny (IP w/ masking)	YES (IP w/ masking)
Layer 7	Application	NO	NO

Rule Support A4

		A4		
		Access Control	CoS	
Layer 2	Ethertype	Permit/Deny/VLAN (range)	YES (range)	
	DSAP/SSAP	NO	NO	
	MAC Address Source/ Destination/Bilateral	Permit/Deny Only (MAC masking)	YES (MAC masking)	
	VLAN ID	NO	NO	
	Priority	NO	NO	
Layer 3	IP Type of Service	Permit/Deny Only	YES	
	IP Protocol Type	Permit/Deny Only (range)	YES (range)	
	IP Address Source/ Destination/Bilateral	Permit/Deny Only (IP masking)	YES (IP masking)	
	IP Socket Source/ Destination/Bilateral	Permit/Deny Only (port w/ masking)	YES (port w/ masking)	
	IP Fragment	NO	NO	
	IPX Class of Service	NO	NO	
	IPX Packet Type	NO	NO	
	IPX Network Source/ Destination/Bilateral	NO	NO	
	IPX Socket Source/ Destination/Bilateral	NO	NO	
	ICMP	NO	NO	
	IP Time to Live (TTL)	NO	NO	
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny Only (port range)	YES (port range)	
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny Only (port range)	YES (port range)	
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny Only	YES	
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny Only	YES	
Layer 7	Application	NO	NO	

Rule Support B2/C2/D2 and B3/C3/G3/B5/C5

		B2/C2/D2(1)		B3/C3/G3/B5/C5(1)	
		Access Control	CoS	Access Control	CoS
Layer 2	Ethertype	Permit/Deny/VLAN (2)	YES	Permit/Deny/VLAN	YES
	DSAP/SSAP	NO	NO	NO	NO
	MAC Address Source/ Destination/Bilateral	Permit/Deny Only (MAC masking)	YES (MAC masking)	Permit/Deny Only (MAC masking)	YES (MAC masking)
	VLAN ID	NO	NO	NO	NO
	Priority	NO	NO	NO	NO
Layer 3	IP Type of Service	Permit/Deny Only	YES	Permit/Deny Only	YES
	IP Protocol Type	Permit/Deny Only	YES	Permit/Deny Only	YES
	IP Address Source/ Destination/Bilateral	Permit/Deny Only (IP masking)	YES (IP masking)	Permit/Deny Only (IP masking)	YES (IP masking)
	IP Socket Source/ Destination/Bilateral	Permit/Deny Only (port w/ masking)	YES (port w/ masking)	Permit/Deny Only (port w/ masking)	YES (port w/ masking)
	IP Fragment	NO	NO	NO	NO
	IPX Class of Service	NO	NO	NO	NO
	IPX Packet Type	NO	NO	NO	NO
	IPX Network Source/ Destination/Bilateral	NO	NO	NO	NO
	IPX Socket Source/ Destination/Bilateral	NO	NO	NO	NO
	ICMP	Permit/Deny Only (range)	YES (range)	NO	NO
	IPv6 Address Destination	NO	NO	YES(3)	YES(3)
	IPv6 Socket Source/ Destination/Bilateral	NO	NO	NO	NO
	IPv6 Flow Label	NO	NO	NO	NO
	ICMPv6	NO	NO	Deny Only(4)	NO
	IP Time to Live (TTL)	NO	NO	NO	NO
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny Only (port range)	YES (port range)	Permit/Deny Only (port range)	YES (port range)
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny Only (port range)	YES (port range)	Permit/Deny Only (port range)	YES (port range)
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny Only	YES	Permit/Deny Only	YES
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny Only	YES	Permit/Deny Only	YES
Layer 7	Application	NO	NO	NO	NO

 $^{^{1}}$ If Policy support is enabled. 2 VLAN support varies depending on versions. See your firmware release notes for more information. 3 Supported on B5/C5 devices running firmware version 6.81.xx and higher. This rule support must be enabled via

the following CLI command: "set policy capability ipv6dest enable". If it is not enabled, the rule will be removed from Policy Manager during Enforce.

4Supported on B5/C5 devices running firmware version 6.81.xx and higher. Supports only Router Advertisement

type.

Rule Support Summit 440G2/620

		Summit 440G2/620		
		Access Control	CoS	
Layer 2	Ethertype	Permit/Deny (Ethertype w/ masking)	YES (Ethertype w/ masking)	
	DSAP/SSAP	NO	NO	
	MAC Address Source/ Destination/Bilateral	NO	NO	
	VLAN ID	NO	NO	
	Priority	NO	NO	
Layer 3	IP Type of Service	Permit/Deny (TOS w/ masking)	YES (TOS w/ masking)	
	IP Protocol Type	Permit/Deny (Protocol w/ masking)	YES (Protocol w/ masking)	
	IP Address Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP Socket Source/ Destination/Bilateral	YES	YES	
	IP Fragment	Permit/Deny	YES	
	IPX Class of Service	NO	NO	
	IPX Packet Type	NO	NO	
	IPX Network Source/ Destination/Bilateral	NO	NO	
	IPX Socket Source/ Destination/Bilateral	NO	NO	
	ICMP	NO	NO	
	IPv6 Address Destination	NO	NO	
	IPv6 Socket Source/ Destination/Bilateral	NO	NO	
	IPv6 Flow Label	NO	NO	
	ICMPv6	NO	NO	
	IP Time to Live (TTL)	Permit/Deny	YES	
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
Layer 7	Application	NO	NO	

Rule Support Summit 450G2/460G2/670G2/770G2

		Summit 450G2/460G2/670G2/770G2		
		Access Control	CoS	
Layer 2	Ethertype	Permit/Deny (Ethertype w/ masking)	YES (Ethertype w/ masking)	
	DSAP/SSAP	NO	NO	
	MAC Address Source/ Destination/Bilateral	Permit/Deny (MAC w/ masking)	YES (MAC w/ masking)	
	VLAN ID	NO	NO	
	Priority	NO	NO	
Layer 3	IP Type of Service	Permit/Deny (TOS w/ masking)	YES (TOS w/ masking)	
	IP Protocol Type	Permit/Deny (Protocol w/ masking)	YES (Protocol w/ masking)	
	IP Address Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP Socket Source/ Destination/Bilateral	YES(1)	YES(1)	
	IP Fragment	Permit/Deny	YES	
	IPX Class of Service	NO	NO	
	IPX Packet Type	NO	NO	
	IPX Network Source/ Destination/Bilateral	NO	NO	
	IPX Socket Source/ Destination/Bilateral	NO	NO	
	ICMP	NO	NO	
	IPv6 Address Destination	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IPv6 Socket Source/ Destination/Bilateral	NO	NO	
	IPv6 Flow Label	NO	NO	
	ICMPv6	NO	NO	
	IP Time to Live (TTL)	Permit/Deny	YES	
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny (IP w/ masking)	YES (IP w/ masking)	
Layer 7	Application	NO	NO	

 $^{^1}$ Supported on Summit devices running firmware version 16.1.2.xx and higher. Firmware not supporting these rules displays event log message on enforce indicating firmware does not support IP Socket Rules.

Rule Support 13

		13	
		Access Control	CoS
Layer 2	Ethertype	Permit/Deny/VLAN	YES
	DSAP/SSAP	NO	NO
	MAC Address Source/ Destination/Bilateral	NO	NO
	VLAN ID	NO	NO
	Priority	NO	NO
Layer 3	IP Type of Service	Permit/Deny Only	YES
	IP Protocol Type	Permit/Deny Only	YES
	IP Address Source/ Destination/Bilateral	Permit/Deny Only (IP masking)	YES (IP masking)
	IP Socket Source/ Destination/Bilateral	Permit/Deny Only (port w/ masking)	YES (port w/ masking)
	IP Fragment	NO	NO
	IPX Class of Service	NO	NO
	IPX Packet Type	NO	NO
	IPX Network Source/ Destination/Bilateral	NO	NO
	IPX Socket Source/ Destination/Bilateral	NO	NO
	ICMP	NO	NO
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny Only (port range)	YES (port range)
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny Only (port range)	YES (port range)
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny Only	YES
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny Only	YES
Layer 7	Application	NO	NO

Rule Support K-Series and S-Series

		K-Series/S-Series		
		Access Control	CoS	
Layer 2	Ethertype	Permit/Deny/VLAN (range)	YES (range)	
	DSAP/SSAP	Permit/Deny/VLAN (DSAP/SSAP masking)	YES (DSAP/SSAP masking)	
	MAC Address Source/ Destination/Bilateral	Permit/Deny/VLAN (MAC masking)	YES (MAC masking)	
	VLAN ID	Permit/Deny/VLAN (VLAN ID range)	YES (VLAN ID range)	
	Priority	Permit/Deny/VLAN	YES	
Layer 3	IP Type of Service	Permit/Deny/VLAN	YES	
	IP Protocol Type	Permit/Deny/VLAN (range)	YES (range)	
	IP Address Source/ Destination/Bilateral	Permit/Deny/VLAN (IP masking)	YES (IP masking)	
	IP Socket Source/ Destination/Bilateral	Permit/Deny/VLAN (port w/ masking)	YES (port w/ masking)	
	IP Fragment	Permit/Deny/VLAN	YES	
	IPX Class of Service	Permit/Deny/VLAN (port range)	YES (port range)	
	IPX Packet Type	Permit/Deny/VLAN (port range)	YES (port range)	
	IPX Network Source/ Destination/Bilateral	Permit/Deny/VLAN (port range)	YES (port range)	
	IPX Socket Source/ Destination/Bilateral	Permit/Deny/VLAN (port range)	YES (port range)	
	ICMP	Permit/Deny/VLAN	YES	
	IPv6 Address Source/ Destination/Bilateral	7.31.xx and later Permit/Deny/VLAN (IP masking)	7.31.xx and later YES (IP masking)	
	IPv6 Socket Source/ Destination/Bilateral	7.31.xx and later Permit/Deny/VLAN (port w/ masking)	7.31.xx and later YES (port w/ masking)	
	IPv6 Flow Label	7.31.xx and later Permit/Deny/VLAN	7.31.xx and later YES	
	ICMPv6	7.31.xx and later Permit/Deny/VLAN	7.31.xx and later YES	
	IP Time to Live (TTL)	Permit/Deny/VLAN	YES	

		K-Series/S	S-Series
		Access Control	CoS
Layer 4	IP UDP Port Source/ Destination/Bilateral	Permit/Deny/VLAN (port range or IP w/ masking)	YES (port range or IP w/ masking)
	IP TCP Port Source/ Destination/Bilateral	Permit/Deny/VLAN (port range or IP w/ masking)	YES (port range or IP w/ masking)
	IP UDP Port Source/ Destination/Bilateral Range	Permit/Deny/VLAN	YES
	IP TCP Port Source/ Destination/Bilateral Range	Permit/Deny/VLAN	YES
Layer 7	Application	8.02.xx and later Permit/Deny/VLAN	8.02.xx and later YES

Rule Support ExtremeWireless Controller

	ExtremeWireless Controller		
	Access Control	CoS	
Ethertype	8.31.xx and later Permit/Deny/VLAN	8.31.xx and later YES	
DSAP/SSAP	NO	NO	
MAC Address Source/ Destination/Bilateral	8.31.xx and later Permit/Deny/VLAN	8.31.xx and later YES	
VLAN ID	NO	NO	
Priority	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Type of Service	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Protocol Type(1)	Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Address Source/ Bilateral	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Address Destination	Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Socket Source/ Bilateral	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Socket Destination	Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Fragment	NO	NO	
IPX Class of Service(2)	NO	NO	
IPX Packet Type(2)	NO	NO	
IPX Network Source/ Destination/Bilateral(2)	NO	NO	
IPX Socket Source/ Destination/Bilateral(2)	NO	NO	
ICMP	Permit/Deny/VLAN(3)	8.01.xx and later YES	
IP Time to Live (TTL)	NO	NO	
	DSAP/SSAP MAC Address Source/ Destination/Bilateral VLAN ID Priority IP Type of Service IP Protocol Type(1) IP Address Source/ Bilateral IP Address Destination IP Socket Source/ Bilateral IP Socket Destination IP Fragment IPX Class of Service(2) IPX Packet Type(2) IPX Network Source/ Destination/Bilateral(2) IPX Socket Source/ Destination/Bilateral(2) ICMP	Ethertype 8.31.xx and later Permit/Deny/VLAN DSAP/SSAP NO MAC Address Source/ Destination/Bilateral VLAN ID Priority 8.01.xx and later Permit/Deny/VLAN(3) IP Type of Service 8.01.xx and later Permit/Deny/VLAN(3) IP Protocol Type(1) Permit/Deny/VLAN(3) IP Address Source/ Bilateral Permit/Deny/VLAN(3) IP Address Destination IP Socket Source/ Bilateral Permit/Deny/VLAN(3) IP Socket Source/ Bilateral Permit/Deny/VLAN(3) IP Socket Type(2) IPX Class of Service(2) IPX Network Source/ Destination/Bilateral(2) IPX Socket Source/ Destination/Bilateral(2) ICMP Permit/Deny/VLAN(3)	

		ExtremeWireless	s Controller
		Access Control	CoS
Layer 4	IP UDP Port Source/ Bilateral	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP UDP Port Destination	Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP TCP Port Source/ Bilateral	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP TCP Port Destination	Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP UDP Port Source/ Bilateral Range	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP UDP Port Destination Range	Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP TCP Port Source/ Bilateral Range	8.01.xx and later Permit/Deny/VLAN(3)	8.01.xx and later YES
	IP TCP Port Destination Range	Permit/Deny/VLAN(3)	8.01.xx and later YES
Layer 7	Application	9.12.xx and later Permit/Deny/VLAN(3)	9.12.xx and later YES

¹Not all IP Protocols are supported for the ExtremeWireless Controller. Supported IP Protocols for this rule type are: ICMP, TCP, UDP, GRE, ESP, AH.

²The ExtremeWireless Controller automatically blocks all IPX traffic, as it is unsuited to wireless transmission.

³ Contain to VLAN is supported on 8.31.xx and later only.

Inventory Manager Firmware Support

The following table shows Inventory Manager feature support for hardware products and firmware versions.

Firmware Version		1			
Product	Download Firmware	Download Config Template	Save Archive	Restore Archive	Reset Device
7100-Series	8.42.xx	8.42.xx	8.42.xx	8.42.xx	8.42.xx
800-Series(1)	1.02.01.xx	Not Supported	1.02.01.xx	1.02.01.xx	Not Supported
A2	3.03.xx	3.03.xx	3.03.xx	3.03.xx	3.03.xx
A4	6.81.xx	6.81.xx	6.81.xx	6.81.xx	6.81.xx
B2	4.02.xx	4.02.xx	4.02.xx	4.02.xx	4.02.xx
B3/C3/G3/I3	6.61.xx	6.61.xx	6.61.xx	6.61.xx	6.61.xx
B5/C5	6.81.xx	6.81.xx	6.81.xx	6.81.xx	6.81.xx
D2	6.03.xx	6.03.xx	6.03.xx	6.03.xx	6.03.xx
ExtremeWireless Controller	10.01.xx	Not Supported	10.01.xx	10.01.xx	10.01.xx
K-Series	8.42.xx	8.42.xx	8.42.xx	8.42.xx	8.42.xx
S-Series	8.42.xx	8.42.xx	8.42.xx	8.42.xx	8.42.xx
BlackDiamond Series(1)(2)	15.3.x	Not Supported	15.3.x	15.3.x	15.3.x
E4G Series (1)(2)	15.3.x	Not Supported	15.3.x	15.3.x	15.3.x
Summit Series(1)(2)	15.3.x	15.7.x	15.3.x	15.3.x	15.3.x

 $^{^{1}}$ To perform these functions, Inventory Manager uses a script that requires accurate CLI credentials.

²Utilizes Extreme Control Center script functionality. VR-Default is the default used in Controlled by device type. If VR-Mgmt required, use MIB and Script Overrides (ExtremeXOS-TFTP (VR-Mgmt))

ACL Manager Firmware Support

ACL Manager is a Extreme Control Center Console tool that lets you efficiently manage the Access Control Lists (ACLs) on your network routers. ACL Manager supports the following Extreme Networks hardware products and firmware versions:

Product	Firmware Version
K-Series	7.31 and later
S-Series	7.11 and later

Automated Security Manager Firmware Support

Devices that support Static Policies must be able to discard traffic at the role level and apply a Quarantine role that is set up to discard traffic. Refer to Policy Manager Firmware Support for policy support information for specific device types.

OneView Firmware Support

OneView requires ExtremeWireless Controller firmware version 8.01 or later. Earlier firmware versions are not supported.

ExtremeWireless Firmware Support

OneView and ExtremeWireless can be used to monitor and configure ExtremeWireless Controllers running firmware version 8.01 or later.

Extreme Networks Support

If you require assistance, contact Extreme Networks Global Technical Assistance Center using one of the following methods.

Web	www.extremenetworks.com/support/
Phone	1-800-872-8440 (toll-free in U.S. and Canada) or 1-603-952-5000 For the Extreme Networks Support phone number in your country: www.extremenetworks.com/support/contact/
Email	support@extremenetworks.com

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