

## Firmware Support

### Extreme Networks Extreme Management Center (formerly NetSight)<sup>®</sup>

Version 7.0  
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This document provides firmware support information for the following Extreme Management Center applications:

- [Extreme Management Center Product Support](#)
- [NAC Manager Firmware Support](#)
- [Policy Manager Firmware Support](#)
- [Inventory Manager Firmware Support](#)
- [ACL Manager Firmware Support](#)
- [Automated Security Manager Firmware Support](#)
- [Management Center Firmware Support](#)
- [ExtremeWireless Firmware Support](#)

## Extreme Management Center Product Support

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

## NAC Manager Firmware Support

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

| Product                    | Firmware Version                          |
|----------------------------|---|
| 7100-Series                | 8.31.xx<br>8.32.xx<br>8.42.xx<br>8.61.xx  |
| 800-Series                 | 1.02.01.xx                                |
| A4                         | 6.61.xx<br>6.71.xx<br>6.81.xx             |
| B5/C5                      | 6.61.xx<br>6.71.xx<br>6.81.xx             |
| D-Series                   | 6.03.xx                                   |
| E4G Series                 | 15.4.1.3-patch1-2 or higher               |
| ExtremeWireless Controller | 9.12.xx<br>9.15.xx<br>9.21.xx<br>10.01.xx |
| I3                         | 6.42.xx<br>6.61.xx                        |
| K-Series                   | 8.31.xx<br>8.32.xx<br>8.42.xx<br>8.61.xx  |
| S-Series                   | 8.31.xx<br>8.32.xx<br>8.42.xx<br>8.61.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<br>12.2(25)SEE2               |
| Cisco 2950                 | 12.1(22)EA5                               |
| Cisco Wireless(1)          | 7.2.110.0                                 |

<sup>1</sup>For a complete list of Cisco Wireless devices, refer to the Cisco Release Notes for [Firmware Version 7.2.110.0](#).

## Extreme Access Control VPN Integration Requirements

This section lists the VPN concentrators that are supported for use in Extreme Access Control 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)

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**NOTE:** For all Extreme Access Control 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.

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# Policy Manager Firmware Support

[Section 1](#) lists the hardware products and firmware versions supported by Policy Manager.

[Section 2](#) lists the Policy Manager feature sets for the supported products.

[Section 3](#) 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                  | 8.31.xx          |
|                              | 8.32.xx          |
|                              | 8.42.xx          |
|                              | 8.61.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 450G2/460G2/670G2/770 | 16.1.1.xx        |
|                              | 21.1.1.xx        |
| ExtremeWireless Controller   | 9.12.xx          |
|                              | 9.15.xx          |
|                              | 9.21.xx          |
|                              | 10.01.xx         |
| I3                           | 6.42.xx          |
|                              | 6.61.xx          |
| K-Series                     | 8.31.xx          |
|                              | 8.32.xx          |
|                              | 8.42.xx          |
|                              | 8.61.xx          |
| S-Series                     | 8.31.xx          |
|                              | 8.32.xx          |
|                              | 8.42.xx          |
|                              | 8.61.xx          |

## Section 2: Policy Manager Feature Support

- [7100-Series](#)
- [A4](#)
- [B5/C5](#)
- [D2](#)
- [Summit 440G2/620](#)
- [Summit 450G2/460G2/670G2/770](#)
- [I3](#)
- [K-Series/S-Series](#)
- [ExtremeWireless Controller](#)

## Feature Support 7100-Series

|   | 7100-Series    |
|---|----------------|
|   | <b>8.31.xx</b> |
|   | <b>8.32.xx</b> |
|   | <b>8.42.xx</b> |
|   | <b>8.61.xx</b> |
| <b>Functionality</b>                      |                |
| Authentication Support                    | X              |
| 802.1X                                    | X              |
| MAC                                       | X              |
| MAC Mask                                  | X              |
| Web-Based                                 | X              |
| CEP                                       | X              |
| Quarantine                                | X(1)           |
| Auto Tracking                             | X(1)           |
| 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        | -              |
| Authentication-based VLAN to Role Mapping | X              |
| IP to Role Mapping                        | -              |
| MAC to Role Mapping                       | X(2)           |
| Rule Accounting                           | -              |
| Port Disabled on Rule Hit                 | -              |
| Disable Traffic Classify Type             | -              |
| Clear Rule Usage                          | -              |
| Invalid Policy Action                     | X              |
| 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                             | -              |

<sup>1</sup>Supported on 8.20.xx and higher.

<sup>2</sup>Only Port-level Source MAC to Role Mappings supported.

<sup>3</sup>TCI 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                             | A4 Firmware Version |         |         |
|---|---------------------|---------|---------|
|   | 6.61.xx             | 6.71.xx | 6.81.xx |
| Authentication Support                    | X                   |         |         |
| 802.1X                                    | X                   |         |         |
| MAC                                       | X                   |         |         |
| MAC Mask                                  | X                   |         |         |
| Web-Based                                 | X                   |         |         |
| CEP                                       | X(1)                |         |         |
| Quarantine                                | -                   |         |         |
| Auto Tracking                             | -                   |         |         |
| Global Authentication Settings:           | X                   |         |         |
| Authentication Timeout                    | X                   |         |         |
| Current # of Authenticated Users          | X                   |         |         |
| Multi-Users per Port                      | X(2)                |         |         |
| RFC3580 VLAN Authorization                | X                   |         |         |
| RFC3580 VLAN Egress                       | X                   |         |         |
| RADIUS Support                            | X                   |         |         |
| RADIUS Accounting                         | X(3)                |         |         |
| 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                 | -                   |         |         |
| 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                             | -                   |         |         |

<sup>1</sup>Supported on 6.71.xx and higher.

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

<sup>3</sup>Supported on 6.81.xx and higher.

<sup>4</sup>See Firmware Release Notes for details.

<sup>5</sup>This feature does 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.

<sup>6</sup>Priority-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

| Functionality                             | B5/C5 Firmware Version |         |
|---|------------------------|---------|
|   | 6.61.xx                | 6.71.xx |
|   | 6.71.xx                | 6.81.xx |
|   | 6.81.xx                |         |
| Authentication Support                    | X                      |         |
| 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                             | -                      |         |

<sup>1</sup>Can 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.

<sup>2</sup>Supported on 6.71.xx only. CEP detection is not supported.

<sup>3</sup>B5 supports four users per port. C5 supports eight users per port. See Firmware Release Notes.

<sup>4</sup>Supported on 6.81.xx and higher.

<sup>5</sup>This feature does 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.

<sup>6</sup>For Role-Based Rate Limiting, any rate limit specified by a Class of Service in a rule is 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

| Functionality                             | D2 Firmware Version |         |
|---|---------------------|---------|
|   | 1.00.xx             | 6.03.xx |
| Authentication Support                    | X                   |         |
| 802.1X                                    | X(1)                |         |
| MAC                                       | X(1)                |         |
| MAC Mask                                  | X                   |         |
| Web-Based                                 | X(1)                |         |
| CEP                                       | -                   |         |
| Quarantine                                | -                   |         |
| Auto Tracking                             | -                   |         |
| Global Authentication Settings:           | X                   |         |
| Authentication Timeout                    | X                   |         |
| Current # of Authenticated Users          | X                   |         |
| Multi-Users per Port                      | X(2,3)              |         |
| RFC3580 VLAN Authorization                | X                   |         |
| RFC3580 VLAN Egress                       | X                   |         |
| RADIUS Support                            | X                   |         |
| RADIUS Accounting                         | -                   |         |
| RADIUS Response Mode                      | X(4)                |         |
| Priority Support (802.1p)                 | X                   |         |
| Policy Support                            | X(1)                |         |
| 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(3)                |         |
| ToS/DSCP Rewrite                          | X(7)                |         |
| Anti-Spoofing                             | -                   |         |

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

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

<sup>3</sup>Dynamic MAC locking supported. Static MAC Locking supported only if Policy support is enabled.

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

<sup>5</sup>This feature does 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.

<sup>6</sup>Priority-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.

<sup>7</sup>Only if Policy Support is enabled.

Feature Support Summit 440G2/620

|   | Summit 440G2/620 Firmware Version |
|---|-----------------------------------|
| Functionality                             | 21.1.1.xx                         |
| Authentication Support                    | X                                 |
| 802.1X                                    | X                                 |
| MAC                                       | X                                 |
| MAC Mask                                  | X                                 |
| Web-Based                                 | -                                 |
| CEP                                       | -                                 |
| Quarantine                                | -                                 |
| Auto Tracking                             | -                                 |
| Global Authentication Settings:           | X                                 |
| Authentication Timeout                    | X                                 |
| Current # of Authenticated Users          | X                                 |
| Multi-Users per Port                      | X(1)                              |
| 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        | -                                 |
| Authentication-based VLAN to Role Mapping | X                                 |
| IP to Role Mapping                        | -                                 |
| MAC to Role Mapping                       | X(2)                              |
| Rule Accounting                           | -                                 |
| Port Disabled on Rule Hit                 | -                                 |
| Disable Traffic Classify Type             | -                                 |
| Clear Rule Usage                          | -                                 |
| Invalid Policy Action                     | X                                 |
| 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                             | -                                 |

<sup>1</sup>Supports Active/Default and Active/Discard Only.

<sup>2</sup>Only Port-level MAC (Source)-to-Role Mappings supported.

<sup>3</sup>TCI Overwrite functionality can only be enabled for the Role.

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

|   | Summit 450G2/460G2/670G2/770 Firmware Version |
|---|---|
| Functionality                             | 16.1.1.xx<br>21.1.1.xx                        |
| Authentication Support                    | X   |
| 802.1X                                    | X   |
| MAC                                       | X   |
| MAC Mask                                  | X   |
| Web-Based                                 | -   |
| CEP                                       | -   |
| Quarantine                                | -   |
| Auto Tracking                             | -   |
| Global Authentication Settings:           | X   |
| Authentication Timeout                    | X   |
| Current # of Authenticated Users          | X   |
| Multi-Users per Port                      | X(1)  |
| 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        | -   |
| Authentication-based VLAN to Role Mapping | X   |
| IP to Role Mapping                        | -   |
| MAC to Role Mapping                       | X(2)  |
| Rule Accounting                           | -   |
| Port Disabled on Rule Hit                 | -   |
| Disable Traffic Classify Type             | -   |
| Clear Rule Usage                          | -   |
| Invalid Policy Action                     | X   |
| 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                             | -   |

<sup>1</sup>Supports Active/Default and Active/Discard Only.

<sup>2</sup>Only Port-level MAC (Source)-to-Role Mappings supported.

<sup>3</sup>TCI Overwrite functionality can only be enabled for the Role.

## Feature Support I3

| Functionality                             | I3 Firmware Version |         |
|---|---------------------|---------|
|   | 6.42.xx             | 6.61.xx |
|   |                     |         |
| 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 Accounting                         | -                   |         |
| 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 TCI Overwrite                  | -                   |         |
| Egress Policy                             | -                   |         |
| Rate Limiting                             | X                   |         |
| MAC Locking                               | X                   |         |
| ToS/DSCP Rewrite                          | X                   |         |
| Anti-Spoofing                             | -                   |         |

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

<sup>2</sup>See Firmware Release Notes for details.

## Feature Support K-Series/S-Series

| Functionality                             | K-Series/S-Series Firmware Version |         |
|---|------------------------------------|---------|
|   |                                    | 8.31.xx |
|   |                                    | 8.32.xx |
|   |                                    | 8.42.xx |
|   |                                    | 8.61.xx |
| Authentication Support                    | X(1)                               |         |
| 802.1X                                    | X                                  |         |
| MAC                                       | X                                  |         |
| MAC Mask                                  | X                                  |         |
| Web-Based                                 | X                                  |         |
| CEP                                       | X                                  |         |
| 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                                  |         |
| Rule-Hit Actions:                         | X                                  |         |
| SysLog/AuditTrap/DisablePort Prohibit     | X                                  |         |
| Rule-Based Traffic Mirror                 | X                                  |         |
| Rule-Based TCI Overwrite                  | X                                  |         |
| Egress Policy                             | X(3)                               |         |
| Rate Limiting                             | X(4)                               |         |
| MAC Locking                               | X                                  |         |
| ToS/DSCP Rewrite                          | X                                  |         |
| Anti-Spoofing                             | X(2)                               |         |

<sup>1</sup>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.

<sup>2</sup>Supported on 8.02.xx and later only.

<sup>3</sup>Supported on 7.31.xx and later only.

<sup>4</sup>Priority-Based rate limits not supported.

## Feature Support ExtremeWireless Controller

|   | <b>ExtremeWireless Controller</b> |
|---|-----------------------------------|
|   | <b>9.12.xx</b>                    |
|   | <b>9.15.xx</b>                    |
|   | <b>9.21.xx</b>                    |
| <b>Functionality</b>                      | <b>10.01.xx</b>                   |
| 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                       | -                                 |
| RADIUS Support                            | X(1)                              |
| RADIUS Accounting                         | X(2)                              |
| RADIUS Response Mode                      | -                                 |
| Priority Support (802.1p)                 | -                                 |
| Policy Support                            | X                                 |
| Policy-based VLAN Egress                  | X(3)                              |
| 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 TCI Overwrite                  | -                                 |
| Egress Policy                             | -                                 |
| Rate Limiting                             | X(4)                              |
| MAC Locking                               | -                                 |
| ToS/DSCP Rewrite                          | -                                 |
| Anti-Spoofing                             | -                                 |

<sup>1</sup>The RADIUS Authentication Client Status displays the current read-only setting. The status is automatically set to Enabled by the device when one or more RADIUS authentication servers are added.

<sup>2</sup>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.

<sup>3</sup> Supported on 8.31.xx and later only.

<sup>4</sup>Only 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](#)
- [A4](#)
- [B2/C2/D2 and B3/C3/G3/B5/C5](#)
- [Summit 440G2/620](#)
- [Summit 450G2/460G2/670G2/770](#)
- [I3](#)
- [K-Series and S-Series](#)
- [ExtremeWireless Controller](#)
- [A2](#)

Rule Support 7100-Series

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



Rule Support A4

|                |   | A4                                 |                       |
|----------------|---|------------------------------------|-----------------------|
|                |   | Access Control                     | CoS                   |
| <b>Layer 2</b> | 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                    |
| <b>Layer 3</b> | 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                    |
| <b>Layer 4</b> | 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                   |
| <b>Layer 7</b> | 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                   |
| <b>Layer 2</b>        | 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                    |
| <b>Layer 3</b>        | 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                                 |                       |
| <b>Layer 4</b>        | 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                   |
| <b>Layer 7</b>        | Application                                    | NO                                 | NO                    | NO                                 | NO                    |

<sup>1</sup>If Policy support is enabled.

<sup>2</sup>VLAN support varies depending on versions. See your firmware release notes for more information.

<sup>3</sup>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 is removed from Policy Manager during Enforce.

<sup>4</sup>Supported 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                           |
| <b>Layer 2</b> | Ethertype  | Permit/Deny<br>(Ethertype w/ masking) | YES<br>(Ethertype w/ masking) |
|                | DSAP/SSAP  | NO                                    | NO                            |
|                | MAC Address Source/<br>Destination/Bilateral       | NO                                    | NO                            |
|                | VLAN ID  | NO                                    | NO                            |
|                | Priority   | NO                                    | NO                            |
| <b>Layer 3</b> | IP Type of Service                                 | Permit/Deny<br>(TOS w/ masking)       | YES<br>(TOS w/ masking)       |
|                | IP Protocol Type                                   | Permit/Deny<br>(Protocol w/ masking)  | YES<br>(Protocol w/ masking)  |
|                | IP Address Source/<br>Destination/Bilateral        | Permit/Deny<br>(IP w/ masking)        | YES<br>(IP w/ masking)        |
|                | IP Socket Source/<br>Destination/Bilateral         | YES                                   | YES                           |
|                | IP Fragment  | Permit/Deny                           | YES                           |
|                | IPX Class of Service                               | NO                                    | NO                            |
|                | IPX Packet Type                                    | NO                                    | NO                            |
|                | IPX Network Source/<br>Destination/Bilateral       | NO                                    | NO                            |
|                | IPX Socket Source/<br>Destination/Bilateral        | NO                                    | NO                            |
|                | ICMP   | NO                                    | NO                            |
|                | IPv6 Address Destination                           | NO                                    | NO                            |
|                | IPv6 Socket Source/<br>Destination/Bilateral       | NO                                    | NO                            |
|                | IPv6 Flow Label                                    | NO                                    | NO                            |
|                | ICMPv6   | NO                                    | NO                            |
|                | IP Time to Live (TTL)                              | Permit/Deny                           | YES                           |
| <b>Layer 4</b> | IP UDP Port Source/<br>Destination/Bilateral       | Permit/Deny<br>(IP w/ masking)        | YES<br>(IP w/ masking)        |
|                | IP TCP Port Source/<br>Destination/Bilateral       | Permit/Deny<br>(IP w/ masking)        | YES<br>(IP w/ masking)        |
|                | IP UDP Port Source/<br>Destination/Bilateral Range | Permit/Deny<br>(IP w/ masking)        | YES<br>(IP w/ masking)        |
|                | IP TCP Port Source/<br>Destination/Bilateral Range | Permit/Deny<br>(IP w/ masking)        | YES<br>(IP w/ masking)        |
| <b>Layer 7</b> | Application  | NO                                    | NO                            |

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

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

<sup>1</sup>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 I3

|                |  | I3                                       |                          |
|----------------|--|--|--------------------------|
|                |  | Access Control                           | CoS                      |
| <b>Layer 2</b> | Ethertype  | Permit/Deny/VLAN                         | YES                      |
|                | DSAP/SSAP  | NO                                       | NO                       |
|                | MAC Address Source/<br>Destination/Bilateral       | NO                                       | NO                       |
|                | VLAN ID  | NO                                       | NO                       |
|                | Priority   | NO                                       | NO                       |
| <b>Layer 3</b> | IP Type of Service                                 | Permit/Deny<br>Only                      | YES                      |
|                | IP Protocol Type                                   | Permit/Deny Only                         | YES                      |
|                | IP Address Source/<br>Destination/Bilateral        | Permit/Deny<br>Only<br>(IP masking)      | YES<br>(IP masking)      |
|                | IP Socket Source/<br>Destination/Bilateral         | Permit/Deny<br>Only<br>(port w/ masking) | YES<br>(port w/ masking) |
|                | IP Fragment  | NO                                       | NO                       |
|                | IPX Class of Service                               | NO                                       | NO                       |
|                | IPX Packet Type                                    | NO                                       | NO                       |
|                | IPX Network Source/<br>Destination/Bilateral       | NO                                       | NO                       |
|                | IPX Socket Source/<br>Destination/Bilateral        | NO                                       | NO                       |
|                | ICMP   | NO                                       | NO                       |
| <b>Layer 4</b> | IP UDP Port Source/<br>Destination/Bilateral       | Permit/Deny<br>Only<br>(port range)      | YES<br>(port range)      |
|                | IP TCP Port Source/<br>Destination/Bilateral       | Permit/Deny<br>Only<br>(port range)      | YES<br>(port range)      |
|                | IP UDP Port Source/<br>Destination/Bilateral Range | Permit/Deny<br>Only                      | YES                      |
|                | IP TCP Port Source/<br>Destination/Bilateral Range | Permit/Deny<br>Only                      | YES                      |
| <b>Layer 7</b> | Application  | NO                                       | NO                       |

Rule Support K-Series and S-Series

|                |   | K-Series/S-Series                                    |   |
|----------------|---|--|---|
|                |   | Access Control                                       | CoS                                     |
| <b>Layer 2</b> | 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                                     |
| <b>Layer 3</b> | 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-Series                                    |   |
|----------------|---|--|---|
|                |   | Access Control                                       | CoS                                     |
| <b>Layer 4</b> | IP UDP Port Source/<br>Destination/Bilateral          | Permit/Deny/VLAN<br>(port range or<br>IP w/ masking) | YES<br>(port range or<br>IP w/ masking) |
|                | IP TCP Port Source/<br>Destination/Bilateral          | Permit/Deny/VLAN<br>(port range or<br>IP w/ masking) | YES<br>(port range or<br>IP w/ masking) |
|                | IP UDP Port Source/<br>Destination/Bilateral<br>Range | Permit/Deny/VLAN                                     | YES                                     |
|                | IP TCP Port Source/<br>Destination/Bilateral<br>Range | Permit/Deny/VLAN                                     | YES                                     |
| <b>Layer 7</b> | Application   | 8.02.xx and later<br>Permit/Deny/VLAN                | 8.02.xx and later<br>YES                |

Rule Support ExtremeWireless Controller

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



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

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

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

<sup>3</sup> 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.

| Product                    | Firmware Version  |                          |              |                 |               |
|----------------------------|-------------------|--------------------------|--------------|-----------------|---------------|
|                            | Download Firmware | Download Config Template | Save Archive | Restore Archive | Reset Device  |
| 7100-Series                | 8.61.xx           | 8.61.xx                  | 8.61.xx      | 8.61.xx         | 8.61.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                   | 8.61.xx           | 8.61.xx                  | 8.61.xx      | 8.61.xx         | 8.61.xx       |
| S-Series                   | 8.61.xx           | 8.61.xx                  | 8.61.xx      | 8.61.xx         | 8.61.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        |

<sup>1</sup>To perform these functions, Inventory Manager uses a script that requires accurate CLI credentials.

<sup>2</sup>Utilizes Extreme Management 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 Management 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.

## Management Center Firmware Support

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

## ExtremeWireless Firmware Support

Management Center 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.

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|       |   |
|-------|---|
| Web   | <a href="http://www.extremenetworks.com/support/">www.extremenetworks.com/support/</a>  |
| Phone | 1-800-872-8440 (toll-free in U.S. and Canada) or 1-603-952-5000<br>For the Extreme Networks Support phone number in your country:<br><a href="http://www.extremenetworks.com/support/contact/">www.extremenetworks.com/support/contact/</a> |
| Email | <a href="mailto:support@extremenetworks.com">support@extremenetworks.com</a>  |

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