

ProCurve Networking Software Features

Earliest Software Version Required

Web Managed and Managed Edge Switches

| Selected Software Features ¹ | 1700 | 1800 | 2300 2500 | 2510-24 | 2510-48 | 2600-8-PWR | 2626-PWR 2650-PWR | 2626 | 2650 | 2610 | 2610-PWR | 2824 2848 | 2810 | 2900 | 4100gl | 4200vl |
|--|----------|----------|--------------|---------|---------|------------------|----------------------|------------------|------------------|---------|----------|------------------|---------|---------|---------|---------|
| | 64 | 64 | 30 | 64 | | 253 ² | 253 ² | 253 ² | 253 ² | | | 256 ³ | 256 | 256 | 30 | 256 |
| VLANs (maximum VLANs) | 64 | 64 | 30 | 64 | | 253 ² | 253 ² | 253 ² | 253 ² | | | 256 ³ | 256 | 256 | 30 | 256 |
| port based | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.x |
| subnet based | | | | | | | | | | | | | | | | |
| protocol based | | | | | | | | | | | | | | T.11.xx | | |
| Tagging (802.1Q) | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| GVRP | | | F.01.07 | Q.10.xx | U.11.xx | H.10.34 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.x |
| VLAN Port-Based Prioritization (802.1p) | Vx.01.xx | Px.02.xx | F.04.04 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.x |
| 802.1x open vlan | | | F.05.xx | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.31 | R.11.04 | R.11.04 | | N.10.xx | T.11.xx | G.07.2x | L.10.x |
| 802.1v protocol VLANs | | | | | | | | | | | | I.07.xx | | T.11.xx | | |
| IP V6 protocol VLANs | | | | | | | | | | | | | | | | |
| Spanning Tree Protocol (802.1D) | | | | | | | | | | | | | | | | |
| Single Instance (802.1D-1998) | | | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.x |
| Rapid STP (802.1w standard compliant) | | | F.04.08 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.02 |
| "Fast Mode" STP | | | F.04.08 | | | | | | | | | | | | G.04.05 | |
| Multiple STP (802.1s standard compliant) | | | | Q.10.xx | U.11.xx | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | | L.10.02 |
| MSTP Default Path Cost Controls | | | | Q.10.xx | U.11.xx | H.08.91 | H.08.91 | H.08.91 | H.08.91 | R.11.04 | R.11.04 | I.08.89 | N.10.xx | T.11.xx | | L.10.02 |
| MSTP VLAN Configuration Enhancement | | | | | | | | | | | | | | T.13.xx | | L.11.08 |
| Spanning-tree BPDU Filtering | | | | Q.10.07 | U.11.xx | H.08.102 | H.08.102 | H.08.102 | H.08.102 | R.11.04 | R.11.04 | I.08.101 | N.10.08 | T.12.01 | | L.10.20 |
| Spanning-tree BPDU Protection | | | | Q.10.07 | U.11.xx | H.08.108 | H.08.108 | H.08.108 | H.08.108 | R.11.04 | R.11.04 | I.08.108 | N.10.08 | T.12.01 | | L.10.20 |
| STP Root Guard | | | | | | | | | | | | | | T.13.xx | | |
| Other L2 Redundancy Protocols | | | | | | | | | | | | | | | | |
| Switch Meshing | | | | | | | | | | | | | | | | |
| PVST+ compatible | | | | | | | | | | | | | | | | |
| PVST Protection and Filtering | | | | | | | | | | | | | | | | |
| Link Aggregation | | | | | | | | | | | | | | | | |
| LACP (802.3ad) | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Port Trunking | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.x |
| Multilink PPP | | | | | | | | | | | | | | | | |
| Multilink FR | | | | | | | | | | | | | | | | |
| Network Management | | | | | | | | | | | | | | | | |
| SNMP v1 | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.x |
| SNMP v1/v2c | | | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.x |
| SNMP v3 | | | | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.31 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.07.20 | L.x |

ProCurve Networking Software Features

Earliest Software Version Required

Web Managed and Managed Edge Switches

| Selected Software Features ¹ | 1700 | 1800 | 2300 2500 | 2510-24 | 2510-48 | 2600-8-PWR | 2626-PWR 2650-PWR | 2626 | 2650 | 2610 | 2610-PWR | 2824 2848 | 2810 | 2900 | 4100gl | 4200vl |
|---|----------|----------|--------------|---------|---------|------------|----------------------|----------|----------|---------|----------|--------------|---------|---------|----------|---------|
| | | | | | | | | | | | | | | | | |
| SNMP v3 with AES | | | | | | H.08.100 | H.08.100 | H.08.100 | H.08.100 | R.11.04 | R.11.04 | I.08.100 | | T.11.xx | | L.10.20 |
| Enabling and Configuring SNMP Informs | | | | | | H.10.40 | H.10.40 | H.10.40 | H.10.40 | R.11.04 | R.11.04 | I.10.39 | | T.12.10 | | L.11.08 |
| Password Set via SNMP | | | | | | H.10.32 | H.10.32 | H.10.32 | H.10.32 | R.11.04 | R.11.04 | I.10.32 | | | | L.11.08 |
| SNMP-Server Source IP Commands | | | | | | H.10.24 | H.10.24 | H.10.24 | H.10.24 | R.11.04 | R.11.04 | I.10.24 | | | G.07.100 | L.10.24 |
| RMON | | | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Extended RMON | | | F.01.07 | | | | | | | R.11.04 | R.11.04 | I.07.xx | | T.11.xx | | L.10.02 |
| SMON | | | | | | | | | | | | I.07.xx | | | G.04.05 | |
| Flow Control (802.3x) | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| NetFlow | | | | | | | | | | | | | | | | |
| sFlow | | | | | | | | | | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | | L.10.02 |
| sFlow v5 | | | | | | | | | | | | | | | | |
| LLDP (802.1ab) | Vx.01.xx | Px.02.xx | F.05.50 | Q.10.xx | U.11.xx | H.08.80 | H.07.57 | H.07.57 | H.07.57 | R.11.04 | R.11.04 | I.08.74 | N.10.xx | T.11.xx | G.07.79 | L.x |
| LLDP-MED (Media Endpoint Discovery) | | | | | | H.08.89 | H.08.89 | H.08.89 | H.08.89 | R.11.04 | R.11.04 | | | T.11.xx | | L.10.02 |
| Dual flash images | | | | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.xx | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Port Mirroring | Vx.01.xx | Px.02.xx | | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | | N.10.xx | T.11.xx | | L.10.02 |
| Find-Fix-and-Inform | | | | Q.10.xx | U.11.xx | | | | | R.11.04 | R.11.04 | | N.10.xx | T.11.xx | | L.10.02 |
| Management Interface | | | | | | | | | | | | | | | | |
| Command Line Interface (CLI) | | | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Menu | | | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Web Browser Interface | Vx.01.xx | Px.02.xx | F.01.07 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| TFTP uploadable configuration | | | | | | | | | | | | | | | | |
| Network Security | | | | | | | | | | | | | | | | |
| TACACS+ | | | F.02.02 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.02 |
| TACACS+ Single Sign-On | | | | | | H.10.35 | H.10.35 | H.10.35 | H.10.35 | R.11.04 | R.11.04 | I.10.35 | | | | L.11.08 |
| Concurrent TACACS+ and SFTP | | | | | | H.10.43 | H.10.43 | H.10.43 | H.10.43 | R.11.04 | R.11.04 | | | | | L.11.08 |
| Secure FTP | | | | Q.10.xx | U.11.xx | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | | L.10.02 |
| Secure Shell (SSH) | | | F.04.08 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.02 |
| Secure Shell v2 (SSHv2) | | | | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.31 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.07.20 | L.10.02 |
| Web-based Authentication | | | | Q.10.07 | U.11.xx | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | | L.10.02 |
| MAC-based Authentication | | | | Q.10.07 | U.11.xx | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | | L.10.02 |
| Secure Sockets Layer (SSL) | | | | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.31 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.07.20 | L.10.02 |
| Port Security (MAC-Lockout) | | | | | | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Port Security (MAC-lockdown) | | | F.04.08 | | | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.08.55 | N.10.xx | T.11.xx | G.04.04 | L.10.02 |

ProCurve Networking Software Features

Earliest Software Version Required

Web Managed and Managed Edge Switches

| Selected Software Features ¹ | 1700 | 1800 | 2300 2500 | 2510-24 | 2510-48 | 2600-8-PWR | 2626-PWR 2650-PWR | 2626 | 2650 | 2610 | 2610-PWR | 2824 2848 | 2810 | 2900 | 4100gl | 4200vl |
|--|------|------|--------------|---------|---------|------------|----------------------|---------|---------|---------|----------|--------------|---------|---------|---------|---------|
| | | | | | | | | | | | | | | | | |
| IP Lockdown | | | | | | H.08.80 | H.08.69 | H.08.69 | H.08.69 | | | I.08.91 | | | | |
| Dynamic IP Lockdown | | | | | | H.10.44 | H.10.44 | H.10.44 | H.10.44 | | | I.10.43 | | | | |
| Dynamic ARP Protection | | | | | | H.10.36 | H.10.36 | H.10.36 | H.10.36 | | | I.10.35 | | | | L.10.28 |
| Switch CPU Protection | | | | | | | | | | | | | | | | |
| ICMP throttling | | | | | | | | | | | | | | | | |
| Source Port Filter | | | | | | H.08.80 | H.08.53 | H.08.53 | H.08.53 | R.11.04 | R.11.04 | I.07.xx | N.10.xx | T.11.xx | | L.10.02 |
| Protected Port Groups | | | | Q.10.07 | U.11.xx | | | | | | | | N.10.08 | | | |
| Port Based Access Control (802.1x) | | | F.04.08 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.02 |
| DoS Attack recognition and prevention | | | | | | | | | | | | | | | | |
| Virus Throttling (connection rate filtering) | | | | | | | | | | | | | | | | |
| Concurrent 802.1X and web auth/mac auth | | | | | | | | | | | | | | T.11.xx | | |
| Concurrent 802.1X, web auth, and mac auth | | | | | | | | | | | | | | | | |
| Multiple 802.1X clients per port | | | | Q.10.xx | U.11.xx | H.10.20 | H.10.20 | H.10.20 | H.10.20 | R.11.04 | R.11.04 | | N.10.xx | T.11.xx | | L.x |
| RADIUS | | | F.04.08 | Q.10.xx | U.11.xx | H.08.xx | H.08.xx | H.08.xx | H.08.xx | R.11.04 | R.11.04 | | N.10.xx | T.11.xx | G.04.05 | L.x |
| RADIUS for 802.1x Accounting | | | F.04.08 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.04.04 | L.10.02 |
| 802.1X and RADIUS login (port-based access) | | | F.x | Q.10.xx | U.11.xx | H.08.80 | H.x | H.x | H.x | R.11.04 | R.11.04 | | N.10.xx | T.11.xx | | L.10.02 |
| RADIUS configuration via SNMP | | | | | | H.08.90 | H.08.90 | H.08.90 | H.08.90 | R.11.04 | R.11.04 | | | | | L.10.20 |
| RADIUS IDM for CoS and rate limiting | | | | | | | | | | | | | | | | |
| RADIUS authenticated mgr level login | | | | | | | | | | | | | | T.11.xx | | L.10.02 |
| Secure management access | | | | | | | | | | | | | | | G.x | |
| RADIUS authentication for browser access | | | | | | H.08.80 | H.08.58 | H.08.58 | H.08.58 | R.11.04 | R.11.04 | I.08.60 | N.10.xx | T.11.xx | | |
| Web RADIUS Authentication with CLI | | | | | | | | | | | | | | | | |
| RADIUS assigned ACLs | | | | | | | | | | | | | | | | |
| RADIUS Servers Unavailable Option | | | | | | | | | | | | | | T.12.11 | | L.11.08 |
| RADIUS-assigned GVRP VLANs | | | | | | H.10.34 | H.10.34 | H.10.34 | H.10.34 | R.11.04 | R.11.04 | I.10.34 | | T.12.05 | | L.11.08 |
| RADIUS Attribute additions | | | | | | | | | | | | | | T.13.02 | | |
| Telephone Attached to PC Authentication | | | | | | | | | | | | | | T.12.50 | | |
| Access Control List (ACL) | | | | | | | | | | R.11.04 | R.11.04 | | | | | |
| Identity-driven ACL | | | | | | | | | | R.11.04 | R.11.04 | | | | | |
| Web Auth Secure Protocol | | | | | | | | | | | | | | | | |
| Other Features | | | | | | | | | | | | | | | | |
| Automatic Broadcast Control (ABC) | | | | | | | | | | | | I.07.xx | | | | |
| Power over Ethernet (POE) (802.3af) | | | | | | H.08.80 | H.07.41 | | | | R.11.04 | | | | | |

ProCurve Networking Software Features

Earliest Software Version Required

Web Managed and Managed Edge Switches

| Selected Software Features ¹ | 1700 | 1800 | 2300 2500 | 2510-24 | 2510-48 | 2600-8-PWR | 2626-PWR 2650-PWR | 2626 | 2650 | 2610 | 2610-PWR | 2824 2848 | 2810 | 2900 | 4100gl | 4200vl |
|--|----------|----------|--------------|---------|---------|------------|----------------------|---------|---------|---------|----------|--------------|---------|---------|---------|---------|
| VSRP – Virtual Switch Router Protocol | | | | | | | | | | | | | | | | |
| XL Router Redundancy Protocol (XRRP) | | | | | | | | | | | | | | | | |
| 10 Gig Link Fault Signaling | | | | | | | | | | | | | | | | |
| Priority/Quality of Service (QoS) | | | | | | | | | | | | | | | | |
| Packet Priority (802.1p) | | | F.04.08 | Q.10.xx | U.11.xx | H.08.80 | H.07.41 | H.07.31 | H.07.02 | R.11.04 | R.11.04 | I.07.31 | N.10.xx | T.11.xx | G.03.08 | L.10.02 |
| Packet Priority (802.1p) Partial features only | Vx.01.xx | Px.02.xx | | | | | | | | | | | | | | |
| Layer 4 TCP/UDP packet priority | | | | | | H.08.80 | H.x | H.x | H.x | R.11.04 | R.11.04 | I.07.xx | N.10.xx | T.11.xx | | L.10.02 |
| Priority Queuing | | | | | | | | | | | | | | | | |
| Traffic prioritization (802.1p): | | | F.x | | | H.08.80 | H.x | H.x | H.x | R.11.04 | R.11.04 | I.07.xx | N.10.xx | T.11.xx | G.x | L.10.02 |
| Class of Service (CoS) | | | | | | H.08.80 | H.x | H.x | H.x | R.11.04 | R.11.04 | I.07.xx | N.10.xx | T.11.xx | | L.10.02 |
| Rate Limiting | | | | | | | | | | | | | | | | |
| ICMP Rate Limiting | | | | | | | | | | | | | | | | |
| Classifier-Based Rate Limiting | | | | | | | | | | | | | | | | |
| Packet Filtering (Layer 2, 3, 4) | | | | | | | | | | | | | | | | |
| Port and Priority-based Rate Limiting | | | | | | | | | | | | | | | | |
| Guaranteed Bandwidth Minimums | | | | | | | | | | | | | | | | |
| Selectable queuing configurations | | | | | | | | | | | | | | | | |
| Q-in-Q | | | | | | | | | | | | | | | | |
| IPv6 | | | | | | | | | | | | | | | | |
| IPv6 Host (Dual Stack) | | | | | | | | | | | | | | | T.13.xx | |
| IPv6 MLD Multicast Snooping | | | | | | | | | | | | | | | T.13.xx | |

April, 2008

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The information contained herein is subject to change without notice.

¹ For more information, visit our web site at www.procurve.com

² 30 (Release H.07.xx or earlier), 253 (Release H.08.xx or later)

³ 60 (Release I.07.xx or earlier), 253 (Release I.08.xx or later)

ProCurve Networking Software Features

Earliest Software Version Required

Intelligent Edge and Traditional Core Switches

Selected Software Features¹

| Selected Software Features ¹ | 3400cl | 3500yl 5400zl 6200yl | 5300xl | 6108 | 6400cl | 7000dl | 8100fl | 8212zl | 9300 Standard | 9300 EP |
|--|---------|----------------------------|---------|---------|---------|---------|---------------|---------|------------------|------------|
| VLANs (maximum VLANs) | 256 | 2048 | 256 | 30 | 256 | | 1024 | 2048 | | |
| port based | | | E.05.04 | H.07.02 | | J.02.01 | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| subnet based | | | | | | | | | 04.7.91 | 07.6.01 |
| protocol based | | | E.08.01 | | | | | | 04.7.91 | 07.6.01 |
| Tagging (802.1Q) | M.08.5x | K.11.1x | E.05.04 | H.07.02 | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| GVRP | M.x | K.x | E.05.04 | H.07.02 | | | | K.12.31 | 07.5.04 | 07.6.01 |
| VLAN Port-Based Prioritization (802.1p) | | | E.05.04 | H.07.02 | | | | | | |
| 802.1x open vlan | | | E.06.01 | H.07.31 | | | | | | |
| 802.1v protocol VLANs | M.08.5x | K.x | E.08.01 | | M.08.5x | | | K.12.31 | | |
| IP V6 protocol VLANs | | K.11.1x | | | | | | K.12.31 | 07.6.04 | 07.6.04 |
| Spanning Tree Protocol (802.1D) | | | | | | | | | | |
| Single Instance (802.1D-1998) | | | E.05.04 | H.07.02 | | J.02.01 | CY.01.03.0005 | | 05.2.16 | 07.6.01 |
| Rapid STP (802.1w standard compliant) | M.08.5x | | E.05.04 | H.07.02 | M.08.5x | J.02.01 | CY.02.03.0005 | | 07.5.04 | 07.6.01 |
| "Fast Mode" STP | | | | | | | | | 06.6.00 | 07.6.01 |
| Multiple STP (802.1s standard compliant) | M.08.5x | K.11.1x | E.08.01 | H.x | M.08.5x | | CY.02.03.0005 | K.12.31 | 08.0.00 | 08.0.00 |
| MSTP Default Path Cost Controls | M.08.90 | K.11.12 | E.10.27 | | M.08.90 | | | K.12.31 | | |
| MSTP VLAN Configuration Enhancement | | | E.11.02 | | | | | | | |
| Spanning-tree BPDU Filtering | M.10.10 | K.11.35 | E.10.49 | | | J.02.01 | | K.12.31 | | |
| Spanning-tree BPDU Protection | M.10.17 | K.11.40 | E.10.46 | | | | | K.12.31 | | |
| STP Root Guard | | K.13.xx | | | | | | K.13.xx | | |
| Other L2 Redundancy Protocols | | | | | | | | | | |
| Switch Meshing | M.08.5x | K.11.1x | E.05.04 | | M.08.5x | | | K.12.31 | | |
| PVST+ compatible | | | | | | | | | | |
| PVST Protection and Filtering | | K.12.52 | | | | | | K.12.52 | | |
| Link Aggregation | | | | | | | | | | |
| LACP (802.3ad) | M.08.5x | K.11.1x | E.05.04 | H.07.02 | M.08.5x | | CY.01.03.0005 | K.12.31 | 07.5.04 | 07.6.01 |
| Port Trunking | | | E.05.04 | H.07.02 | | | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| Multilink PPP | | | | | | J.02.01 | | | | |
| Multilink FR | | | | | | J.02.01 | | | | |
| Network Management | | | | | | | | | | |
| SNMP v1 | | K.11.xx | E.05.04 | H.07.02 | | J.02.01 | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| SNMP v1/v2c | | K.11.xx | E.05.04 | H.07.02 | | J.02.01 | | K.12.31 | 07.1.10 | 07.6.01 |
| SNMP v3 | M.10.09 | K.11.xx | E.07.21 | H.07.31 | | J.06.03 | | K.12.31 | 07.5.04 | 07.6.01 |
| SNMP v3 with AES | M.10.09 | K.12.01 | E.10.38 | | | | | K.12.31 | | |
| Enabling and Configuring SNMP Informs | M.10.38 | K.12.17 | E.11.02 | | | J.02.01 | | K.12.31 | | |

ProCurve Networking Software Features

Earliest Software Version Required

Intelligent Edge and Traditional Core Switches

Selected Software Features¹

| | 3400cl | 3500yl 5400zl 6200yl | 5300xl | 6108 | 6400cl | 7000dl | 8100fl | 8212zl | 9300 Standard | 9300 EP |
|-------------------------------------|---------|----------------------------|---------|---------|---------|---------|---------------|---------|------------------|------------|
| Password Set via SNMP | M.10.31 | K.12.01 | E.11.02 | | | | | K.12.31 | | |
| SNMP-Server Source IP Commands | M.10.24 | K.12.01 | E.10.50 | | | J.03.01 | | K.12.31 | | |
| RMON | M.08.5x | K.11.1x | E.05.04 | H.07.02 | M.08.5x | | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| Extended RMON | M.08.5x | K.11.1x | E.05.04 | | M.08.5x | | | K.12.31 | | |
| SMON | M.08.5x | | E.05.04 | | M.08.5x | | | | | |
| Flow Control (802.3x) | | | E.05.04 | H.07.02 | | | | | 04.7.91 | 07.6.01 |
| NetFlow | | | | | | | | | 07.5.04 | |
| sFlow | M.08.5x | K.11.1x | E.08.01 | | M.08.5x | | | K.12.31 | 07.5.04 | 07.6.01 |
| sFlow v5 | | K.11.1x | | | | | | K.12.31 | 08.0.00 | 08.0.00 |
| LLDP (802.1ab) | M.08.5x | K.11.1x | E.09.01 | H.07.80 | M.08.5x | J.03.01 | | K.12.31 | | |
| LLDP-MED (Media Endpoint Discovery) | | K.11.1x | E.10.02 | H.07.57 | | | | K.12.31 | | |
| Dual flash images | M.08.5x | K.11.1x | E.05.04 | H.07.02 | M.08.5x | J.03.01 | | K.12.31 | | |
| Port Mirroring | | K.11.1x | | | | | CY.01.03.0005 | K.12.31 | | |
| Find-Fix-and-Inform | M.08.5x | | | | M.08.5x | | | | | |
| Management Interface | | | | | | | | | | |
| Command Line Interface (CLI) | | K.x | E.05.04 | H.07.02 | | J.02.01 | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| Menu | | K.x | E.05.04 | H.07.02 | | | | K.12.31 | | |
| Web Browser Interface | | K.x | E.05.04 | H.07.02 | | J.02.01 | | K.12.31 | 04.7.91 | 07.6.01 |
| TFTP uploadable configuration | | | | | | J.02.01 | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| Network Security | | | | | | | | | | |
| TACACS+ | M.08.5x | K.11.1x | E.05.04 | H.07.02 | M.08.5x | J.04.01 | CY.01.03.0005 | K.12.31 | 05.2.16 | 07.6.01 |
| TACACS+ Single Sign-On | M.10.34 | K.12.22 | E.11.02 | | | | | K.12.31 | | |
| Concurrent TACACS+ and SFTP | M.10.34 | K.12.21 | E.11.02 | | | J.04.01 | | K.12.31 | | |
| Secure FTP | M.08.5x | K.11.1x | E.08.01 | | M.08.5x | J.04.01 | CY.01.03.0005 | K.12.31 | | |
| Secure Shell (SSH) | | | E.05.04 | H.07.02 | | J.03.01 | CY.01.03.0005 | | 07.1.24 | 07.6.01 |
| Secure Shell v2 (SSHv2) | M.08.5x | K.11.1x | E.07.21 | H.07.31 | M.08.5x | J.03.01 | | K.12.31 | 07.8.00a | 07.6.01 |
| Web-based Authentication | | K.11.1x | E.08.01 | | | | | K.12.31 | | |
| MAC-based Authentication | M.08.5x | K.11.1x | E.08.01 | H.07.52 | M.08.5x | | | K.12.31 | | |
| Secure Sockets Layer (SSL) | M.08.5x | K.11.1x | E.07.21 | H.07.31 | M.08.5x | J.02.01 | | K.12.31 | 07.x | |
| Port Security (MAC-Lockout) | M.08.5x | K.11.1x | E.08.01 | | M.08.5x | | | K.12.31 | | |
| Port Security (MAC-lockdown) | M.08.5x | K.11.1x | E.08.01 | H.07.02 | M.08.5x | | | K.12.31 | | 07.6.01 |
| IP Lockdown | | | | | | | | | | |
| Dynamic IP Lockdown | | | | | | | | | | |
| Dynamic ARP Protection | M.10.35 | K.12.01 | E.10.64 | | | | | K.12.31 | | |
| Switch CPU Protection | | K.11.1x | | | | | | K.12.31 | | |
| ICMP throttling | | K.11.1x | E.10.02 | | | | | K.12.31 | | |

ProCurve Networking Software Features

Earliest Software Version Required

Intelligent Edge and Traditional Core Switches

Selected Software Features¹

| | 3400cl | 3500yl 5400zl 6200yl | 5300xl | 6108 | 6400cl | 7000dl | 8100fl | 8212zl | 9300 Standard | 9300 EP |
|--|---------|----------------------------|---------|---------|---------|---------|---------------|---------|------------------|------------|
| Source Port Filter | M.08.69 | K.11.1x | E.05.04 | H.x | M.08.69 | | | K.12.31 | | |
| Protected Port Groups | | | | | | | | | | |
| Port Based Access Control (802.1x) | | K.11.1x | E.05.04 | H.07.02 | | | | K.12.31 | 07.1.24 | 07.6.01 |
| DoS Attack recognition and prevention | | | | | | | | | 07.6.04 | 07.6.04 |
| Virus Throttling (connection rate filtering) | | K.11.1x | E.09.02 | | | | | K.12.31 | | |
| Concurrent 802.1X and web auth/mac auth | | K.11.1x | E.09.02 | | | | | K.12.31 | | |
| Concurrent 802.1X, web auth, and mac auth | | K.13.xx | | | | | | K.13.xx | | |
| Multiple 802.1X clients per port | | K.11.1x | E.09.02 | | | | | K.12.31 | | |
| RADIUS | | K.11.1x | E.05.04 | | | J.02.01 | CY.01.03.0005 | K.12.31 | 07.1.24 | 07.6.01 |
| RADIUS for 802.1x Accounting | | | E.05.04 | H.07.02 | | | CY.01.03.0005 | | 07.1.24 | 07.6.01 |
| 802.1X and RADIUS login (port-based access) | M.08.5x | | | H.x | M.08.5x | | | | | |
| RADIUS configuration via SNMP | M.08.89 | | | | M.08.89 | | | | | |
| RADIUS IDM for CoS and rate limiting | | | E.09.02 | | | | | | | |
| RADIUS authenticated mgr level login | | K.11.1x | E.09.02 | | | | | K.12.31 | | |
| Secure management access | M.08.5x | K.11.1x | E.10.02 | | M.08.5x | | | K.12.31 | 07.1.10 | 07.x |
| RADIUS authentication for browser access | M.08.69 | K.11.11 | E.09.02 | | M.08.69 | | | K.12.31 | | |
| Web RADIUS Authentication with CLI | M.08.69 | K.11.1x | E.08.01 | | M.08.69 | | | K.12.31 | | |
| RADIUS assigned ACLs | M.10.02 | | E.10.02 | | | | | | | |
| RADIUS Servers Unavailable Option | M.10.39 | K.12.19 | E.11.02 | | | | | K.12.31 | | |
| RADIUS-assigned GVRP VLANs | M.10.33 | K.12.05 | E.11.02 | | | | | K.12.31 | | |
| RADIUS Attribute additions | | K.13.xx | | | | | | K.13.xx | | |
| Telephone Attached to PC Authentication | | K.12.51 | | | | | | K.12.51 | | |
| Access Control List (ACL) | M.08.5x | K.11.1x | E.07.21 | | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | 07.1.24 | 07.6.01 |
| Identity-driven ACL | | K.11.1x | E.x | | | | | K.12.31 | | |
| Web Auth Secure Protocol | | K.12.23 | | | | | | K.12.31 | | |
| Other Features | | | | | | | | | | |
| Automatic Broadcast Control (ABC) | | | E.09.01 | | | | | | 07.1.24 | 07.6.01 |
| Power over Ethernet (POE) (802.3af) | | K.11.1x | E.08.22 | | | | | K.12.31 | 07.x | |
| PoE Power Allocation Methods | | K.13.xx | | | | | | K.13.xx | | |
| Redundant Power Support | M.08.5x | K.x ³ | E.05.04 | | M.08.5x | J.02.02 | | K.12.31 | | |
| External Power Support (EPS) | M.08.5x | | E.08.22 | | M.08.5x | | | | | |
| Broadcast Control | | | | | | | | | | |
| Stacking Capability | M.08.5x | | | H.07.02 | M.08.5x | | | | | |
| Single IP Stack Management | | | | H.07.02 | | | | | | |
| Port Monitoring | | | E.05.04 | H.07.02 | | | | | 04.7.91 | 07.6.01 |

ProCurve Networking Software Features

Earliest Software Version Required

Intelligent Edge and Traditional Core Switches

Selected Software Features¹

| | 3400cl | 3500yl 5400zl 6200yl | 5300xl | 6108 | 6400cl | 7000dl | 8100fl | 8212zl | 9300 Standard | 9300 EP |
|---|---------|----------------------------|---------|---------|---------|---------|---------------|---------|------------------|------------|
| Egress Port Monitoring (Outbound) | | | | | | | | | | |
| SNTP | | | E.05.04 | H.07.02 | | J.06.03 | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| Friendly Port Names | M.10.01 | K.11.1x | E.10.08 | H.07.02 | M.08.5x | | | K.12.31 | 07.1.24 | 07.6.01 |
| IP Preserve | | | E.05.04 | H.07.02 | | | | | | |
| Custom MAC addresses for virtual interfaces | | | | | | | | | | 07.6.04 |
| Jumbo frames | | K.11.1x | | | | | CY.01.03.0005 | K.12.31 | 07.x | 07.6.04 |
| Port Duplex Mismatch Detection | | | E.08.01 | | | | | | | |
| Static Network Address Translation (NAT) | | | E.08.01 | | | J.03.01 | | | 07.1.10 | |
| Dynamic NAT | | | | | | J.02.01 | | | | |
| Multiple configuration files | | K.11.1x | E.09.02 | | | J.02.01 | CY.01.03.0005 | K.12.31 | | |
| Auto-MDI-X | M.08.5x | K.11.1x | E.08.01 | | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | | |
| Wireless xl module support | | | E.10.31 | | | | | | | |
| Wireless zl module support | | K.12.43 | | | | | | K.12.43 | | |
| Fastboot | M.08.78 | K.11.11 | E.10.32 | | M.08.78 | | | K.12.31 | | |
| TCP/UDP port closure | M.10.04 | | E.10.40 | | M.x | | | | | |
| Syslog external file | | | E.07.21 | | | J.02.01 | CY.01.03.0005 | | | |
| Schedule Reload | M.10.32 | K.11.34 | E.11.02 | | | | | K.12.31 | | |
| Uni-Directional Link Detection (UDLD) | M.10.09 | K.11.41 | E.10.42 | | | | | K.12.31 | | |
| Loop Protection | M.10.22 | K.11.44 | E.10.48 | | | | | K.12.31 | | |
| Saving Security Credentials in a Configuration File | | K.12.07 | | | | J.02.01 | | K.12.31 | | |
| USB Secure Autorun | | K.13.xx | | | | | | K.13.xx | | |
| Multicast Support | | | | | | | | | | |
| IGMP | | | E.05.04 | H.07.02 | | J.02.01 | CY.02.03.0005 | | 04.7.91 | 07.6.01 |
| IP Multicast snooping (data driven IGMPv3) | M.08.5x | K.11.1x | E.05.04 | H.x | M.08.5x | | CY.02.03.0005 | K.12.31 | 08.0.00 | 08.0.00 |
| IGMP v3 (interoperability only) | | | E.07.21 | H.07.31 | | | | | | |
| Unicast Routing | | | | | | | | | | |
| Static Routes | M.08.5x | K.11.1x | E.05.04 | H.07.02 | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| IPX | | | | | | | | | 04.7.91 | 07.6.01 |
| AppleTalk | | | | | | | | | 04.7.91 | 07.6.01 |
| IP | M.08.5x | | E.05.04 | H.07.02 | | | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| IPv4 | | | | | | J.02.01 | CY.01.03.0005 | | | |
| IPv6 | | | | | | | | | 07.5.04 | |
| RIP v1 | M.08.5x | K.11.1x | E.05.04 | | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| RIP v2 | M.08.5x | K.11.1x | E.08.01 | | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | 04.7.91 | 07.6.01 |
| OSPF | M.08.5x | | E.05.04 | | M.08.5x | J.02.01 | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| Equal Cost Multipath (ECMP) | | | E.10.02 | | | J.02.01 | CY.01.03.0005 | | | |

ProCurve Networking Software Features

Earliest Software Version Required

Intelligent Edge and Traditional Core Switches

Selected Software Features¹

| | 3400cl | 3500yl 5400zl 6200yl | 5300xl | 6108 | 6400cl | 7000dl | 8100fl | 8212zl | 9300 Standard | 9300 EP |
|--|---------|----------------------------|---------|---------|----------|---------|---------------|---------|------------------|------------|
| ECMP with OSPF | | K.11.11 | E.10.02 | | | J.04.01 | CY.01.03.0005 | K.12.31 | | |
| ECMP with RIP | | | | | | J.04.01 | CY.01.03.0005 | | 08.0.00 | 08.0.00 |
| ECMP with Static Routes | | | | | | J.03.01 | | | | |
| ECMP with BGP | | | | | | J.05.01 | | | | |
| BGP4 | | | | | | J.02.01 | | | 05.0.84 | 07.6.01 |
| UDP broadcast forwarding | M.08.94 | K.11.1x | E.09.02 | | M.08.94 | J.06.01 | | K.12.31 | | |
| IRDP | | | E.05.04 | H.07.02 | | | | | | |
| DHCP Relay | | | E.05.04 | H.07.02 | | J.02.01 | | | | |
| DHCP Option 66 | | K.13.02 | | | | | | K.13.02 | | |
| DHCP Option 82 | M.08.69 | | E.09.05 | | M.08.69 | J.03.01 | | | | |
| DHCP Snooping | | K.11.xx | E.10.44 | | | | | K.12.31 | | |
| Multi-Netting | | | | H.07.02 | | J.02.01 | | | | |
| ARP Age Timer Increase | M.10.39 | K.12.18 | E.11.02 | | | | | K.12.31 | | |
| Multicast Routing | | | | | | | | | | |
| IP Multicast routing | | K.x ⁴ | E.08.01 | | | J.03.01 | | K.12.31 | | |
| IP Multicast routing (Premium License) | | K.11.1x ² | | | | | | K.12.31 | | |
| PIM-DM | M.10.07 | K.x | E.08.01 | | M.08.103 | | | K.12.31 | 04.7.91 | 07.6.01 |
| PIM-SM | | | | | | J.04.01 | | | | |
| DVMRP | | | | | | | | | 04.7.91 | 07.6.01 |
| Redundancy Protocols | | | | | | | | | | |
| Virtual Router Redundancy Protocol (VRRP) | | K.11.1x | | | | | CY.01.03.0005 | K.12.31 | 05.0.84 | 07.6.01 |
| VRRP Pre-Emptive Delay Timer | | K.13.02 | | | | | | K.13.02 | | |
| Standby Routing Protocol (SRP) | | | | | | | | | 04.7.91 | |
| Metro Ring Protocol | | | | | | | | | | 07.6.01 |
| VSRP – Virtual Switch Router Protocol | | | | | | | | | | |
| XL Router Redundancy Protocol (XRRP) | M.08.63 | K.11.11 | E.07.21 | | M.08.63 | | | K.12.31 | | |
| 10 Gig Link Fault Signaling | | | | | | | | | 04.7.91 | 07.6.04 |
| Priority/Quality of Service (QoS) | | | | | | | | | | |
| Packet Priority (802.1p) | | | E.05.04 | H.07.02 | | | CY.01.03.0005 | | 04.7.91 | 07.6.01 |
| Packet Priority (802.1p) Partial features only | | | | | | | | | | |
| Layer 4 TCP/UDP packet priority | M.08.5x | K.11.1x | E.05.04 | H.x | M.08.5x | | | K.12.31 | 07.1.24 | 07.6.01 |
| Priority Queuing | | | E.05.04 | | | J.02.01 | | | 04.7.91 | 07.6.01 |
| Traffic prioritization (802.1p): | M.08.5x | K.11.1x | E.x | H.x | M.08.5x | | CY.01.03.0005 | K.12.31 | | |
| Class of Service (CoS) | M.08.5x | K.11.1x | E.x | H.x | M.08.5x | J.02.01 | CY.01.03.0005 | K.12.31 | | |
| Rate Limiting | M.08.5x | K.11.1x | E.08.01 | | M.08.5x | | | K.12.31 | 07.1.10 | |

ProCurve Networking Software Features

Earliest Software Version Required

Intelligent Edge and Traditional Core Switches

Selected Software Features¹

| | 3400cl | 3500yl 5400zl 6200yl | 5300xl | 6108 | 6400cl | 7000dl | 8100fl | 8212zl | 9300 Standard | 9300 EP |
|---------------------------------------|--------|----------------------------|---------|------|--------|---------|---------------|---------|------------------|------------|
| ICMP Rate Limiting | | | E.10.02 | | | J.04.01 | | | | |
| Classifier-Based Rate Limiting | | K.12.21 | | | | J.04.01 | | K.12.31 | | |
| Packet Filtering (Layer 2, 3, 4) | | | E.05.04 | | | J.02.01 | CY.01.03.0005 | | | |
| Port and Priority-based Rate Limiting | | | | | | J.04.01 | | | | |
| Guaranteed Bandwidth Minimums | | K.11.1x | E.08.01 | | | J.04.01 | | K.12.31 | | |
| Selectable queuing configurations | M.x | | | | | J.02.01 | | | | |
| Q-in-Q | | K.13.xx | | | | | | K.13.xx | | |
| IPv6 | | | | | | | | | | |
| IPv6 Host (Dual Stack) | | K.13.xx | | | | | | K.13.xx | | |
| IPv6 MLD Multicast Snooping | | K.13.xx | | | | | | K.13.xx | | |

*** Requires Premium License

April, 2008

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The information contained herein is subject to change without notice.

¹ For more information, visit our web site at www.procurve.com

² 3500 and 5400 only

³ 5400 only

⁴ 6200 only

ProCurve Networking Software Features

Earliest Software Version Required

| Selected Software Features ¹ | Access Points and Wireless Edge Services | | | | | | Discontinued Product |
|--|--|--------|----------|----------|--------------|-------------------|----------------------|
| | 10ag | 420 | 530 | 700wl | 5300 WESM | 5400/8200 WESM | 520wl |
| | IP Settings | | | | | | |
| DHCP Client | WM.01.11 | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | 2.1.2 |
| DHCP Server | | | | 3.1.128 | WS.02.07 | WT.01.03 | 2.1.2 |
| Statically configurable | WM.01.11 | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | 2.1.2 |
| Network Management | | | | | | | |
| SNMP v1/v2c | WM.01.11 | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | 2.1.2 |
| SNMP v3 | | 2.1.0 | wa.02.10 | | WS.01.05 | WT.01.03 | 2.4.5 |
| Remote configuration/management | WM.01.11 | 2.x | wa.01.05 | 3.1.128 | WS.01.05 | WT.01.03 | 2.x |
| Identity Driven Management | | | wa.01.05 | | WS.01.05 | WT.01.03 | |
| ProCurve Mobility Manager | | 2.x | wa.01.05 | | WS.01.05 | WT.01.03 | |
| ProCurve Identity Driven Manager (IDM) QoS | | | | | WS.02.07 | WT.01.03 | |
| sFlow | | | wa.02.10 | | WS.02.07 | WT.01.03 | |
| Group Configuration | | | wa.02.10 | | | | |
| Probe List | | | wa.02.10 | | | | |
| System Logging | | | | | | | |
| Network statistics | | | | | | | 2.1.2 |
| Event logs (error messages to a syslog server) | | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | 2.1.2 |
| Event logs (error messages to the console) | | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | |
| Event logs (via web GUI) | WM.01.13 | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | 2.1.2 |
| Export Logs and export Network Equipment list. | | | | 4.1.1.37 | | | |
| Wired Equivalent Privacy (WEP) | | | | | | | |
| WEP Static (pre-shared keys: 64, 128 and 152 bits) | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 ³ |
| WEP Dynamic (with 802.1X) | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 |
| Wi-Fi Protected Access (WPA) | | | | | | | |
| WPA PSK (pre-shared keys: 64 hexadecimal digits) | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | |
| WPA Dynamic (with 802.1X) | | 2.0.29 | wa.01.05 | 4.5.0.37 | | | 2.4.5 |
| WPA2 / 802.11i support | WM.01.11 | 2.1.0 | wa.01.05 | 4.x | WS.01.05 | WT.01.03 | |
| AES (WPA) | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | |
| TKIP (WPA) | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.x |
| Filtering | | | | | | | |
| AP management (management traffic control) | | 2.0.29 | | | | | 2.1.2 |
| Ethernet Type (protocol filtering) | | 2.0.29 | | 3.1.128 | WS.02.07 | WT.01.03 | 2.1.2 |
| Local wireless bridge client traffic | | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 |
| VLANs | (maximum VLANs) | | 64 | | | | 2 |

ProCurve Networking Software Features

Earliest Software Version Required

| Selected Software Features ¹ | Access Points and Wireless Edge Services | | | | | | Discontinued Product |
|--|--|--------|----------|------------------|--------------|-------------------|----------------------|
| | 10ag | 420 | 530 | 700wl | 5300 WESM | 5400/8200 WESM | 520wl |
| | Tagging (802.1Q) | | 2.0.29 | wa.01.05 | 4.5.0.37 | WS.01.03 | WT.01.03 |
| VLAN to SSID mapping | | 2.1.0 | wa.01.05 | | WS.01.03 | WT.01.03 | 2.4.5 |
| Radio | | | | | | | |
| 802.11a | WM.01.11 | | | | WS.01.03 | WT.01.03 | 2.1.2 |
| 802.11b | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.03 | WT.01.03 | 2.1.2 |
| 802.11g | WM.01.11 | 2.1.2 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.x |
| 802.11g with 802.11a | WM.01.11 | | | | WS.01.05 | WT.01.03 | |
| 802.11g with 802.11b | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.03 | WT.01.03 | 2.4.5 |
| Simultaneous 802.11a/b/g | WM.01.11 | | wa.01.05 | | | | |
| Closed system | | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 |
| Multiple SSIDs (8) | WM.01.11 | 2.1.0 | | | | | |
| Multiple SSIDs (16) | | | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 |
| Independent security settings per SSID | WM.01.11 | 2.1.0 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 |
| Multiple RADIUS servers per SSID | | 2.1.0 | | | | | 2.1.2 |
| External Antenna | WM.01.11 | 2.x | wa.01.05 | | | | 2.x |
| Fast Layer 2 roaming between modules | | | | | WS.02.07 | WT.01.03 | |
| Layer 3 mobility | | | | | WS.02.07 | WT.01.03 | |
| Layer 3 RP adoption | | | | | WS.02.07 | WT.01.03 | |
| Adaptive Tx Power Control (ATPC) | | | wa.02.10 | | | | |
| Management Interface | | | | | | | |
| Command Line Interface (CLI) via console | | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.x | WT.01.03 | 2.1.2 |
| Command Line Interface (CLI) via telnet | | 2.0.29 | wa.01.05 | 4.1.1.37 | WS.01.x | WT.01.03 | 2.1.2 |
| Web Browser Interface | WM.01.11 | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.05 | WT.01.03 | 2.1.2 |
| Other Features | | | | | | | |
| 10/100Base-TX RJ-45 port | WM.01.11 | 2.0.29 | wa.01.05 | 1.128 (gigabit) | | | 2.1.2 |
| Adjustable output (transmit) power | | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.4.5 |
| Auto Channel Select (ACS) | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.1.2 |
| Dual flash images | | 2.0.29 | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | 2.x |
| FTP | | 2.0.29 | wa.01.05 | 3.1.128 (client) | WS.01.03 | WT.01.03 | |
| Inter-AP Protocol (IAPP) 802.11f | | 2.0.29 | | | | | 2.1.2 |
| Ping/Link integrity | | 2.0.29 | | | | | 2.1.2 |
| Power over Ethernet (PoE) 802.3af | WM.01.11 | 2.0.29 | wa.01.05 | | WS.01.05 | WT.01.03 | |
| SNTP | | 2.0.29 | wa.01.05 | 4.5.0.37 | | WT.01.03 | |
| Secure NTP | | | | | WS.02.07 | WT.01.03 | |

ProCurve Networking Software Features

Earliest Software Version Required

| Selected Software Features ¹ | Access Points and Wireless Edge Services | | | | | | Discontinued Product |
|--|--|------------------|-----------------------|-------------------|------------------|-------------------|---------------------------|
| | 10ag | 420 | 530 | 700wl | 5300 WESM | 5400/8200 WESM | 520wl |
| | TFTP | | 2.0.29 | wa.01.05 | 3.1.128 (client) | WS.01.03 | WT.01.03 |
| Wireless Distribution System (WDS) | | | wa.01.05 | | | | 2.1.2 ⁴ /2.4.5 |
| SpectraLink Voice Priority | | 2.1.0 | wa.01.05 | | WS.02.07 | WT.01.03 | 2.4.5 |
| Human Readable/Editable (text) Configuration Files | | 2.1.0 | | | WS.01.03 | WT.01.03 | 2.1.2 |
| WiFi 802.11g and WPA 2 Certifications | WM.01.11 | 2.1.0 | wa.01.14 | | WS.01.05 | WT.01.03 | |
| Broadcast/Multicast Packet Limiting | | 2.1.2 | wa.01.05 | 3.1.128 | | | |
| Neighbor AP detection | | 2.1.0 | wa.01.05 | | WS.01.05 | WT.01.03 | 2.4.5 |
| Multiple administrator accounts | | | | 3.1.128 | WS.01.03 | WT.01.03 | |
| Quality of Service | WM.01.11 | | | 4.5.0.37 | WS.01.05 | WT.01.03 | 2.x** |
| WMM | WM.01.11 | | wa.01.05 | | WS.01.05 | WT.01.03 | |
| Self Healing | | | | | WS.01.05 | WT.01.03 | |
| International Country Configuration | WM.01.11 | 2.x ⁵ | wa.01.05 | | WS.01.05 | WT.01.03 | |
| Network Address Translation (NAT) | | | | | WS.02.07 | WT.01.03 | |
| Multiple configuration files | | | wa.01.05 | | | | |
| Meets ETSI Radar Interference Requirements | WM.01.15 | | WA.02.15 | | | | |
| Security | | | | | | | |
| Internal RADIUS server | | | wa.01.08 ⁷ | | WS.02.07 | WT.01.03 | |
| RADIUS accounting | WM.01.11 | 2.1.0 | wa.01.05 | 4.1.1.37 | WS.02.07 | WT.01.03 | 2.1.2 |
| RADIUS MAC authentication | WM.01.11 | 2.0.29 | wa.01.05 | 4.1.1.37 | WS.02.07 | WT.01.03 | 2.1.2 ² |
| RADIUS for 802.1X authentication - EAP MD5 | WM.01.11 | 2.0.29 | | 4.4.0.50 (as pro) | WS.01.05 | WT.01.03 | 2.1.2 |
| RADIUS for 802.1X authentication - EAP PEAP | WM.01.11 | 2.0.29 | wa.01.05 | 4.4.0.50 | WS.01.05 | WT.01.03 | 2.1.2 |
| RADIUS for 802.1X authentication - EAP TLS | WM.01.11 | 2.0.29 | wa.01.05 | 4.0.50 (as pro) | WS.01.05 | WT.01.03 | 2.1.2 |
| RADIUS for 802.1X authentication - EAP TTLS | WM.01.11 | 2.0.29 | wa.01.05 | 4.0.50 (as pro) | WS.01.05 | WT.01.03 | 2.1.2 |
| RADIUS for 802.1X authentication - EAP SIM | WM.01.11 | | wa.01.05 | 4.0.50 (as pro) | WS.01.05 | WT.01.03 | |
| RADIUS for 802.1X authentication - EAP GTC | WM.01.11 | | wa.01.05 | 4.0.50 (as pro) | WS.01.05 | WT.01.03 | |
| 802.1X port-based access control | WM.01.11 | | wa.02.10 | | | | 2.x |
| Local MAC authentication | WM.01.11 | | wa.01.05 | 3.1.128 | WS.01.03 | WT.01.03 | |
| Local RADIUS authentication | WM.01.11 | | wa.01.05 | 4.4.0.50 | WS.02.07 | WT.01.03 | |
| Web-based authentication | | | wa.02.10 | 3.1.128 | WS.01.05 | WT.01.03 | |
| Port Security (MAC-Lockout) | | | wa.02.10 | | | | |
| Dynamic VLAN Assignment for MAC Authentication Clients | | 2.1.3 | wa.01.05 | 4.4.0.50 | WS.02.07 | WT.01.03 | |
| Deauthentication of Clients Through SNMP | | 2.1.3 | wa.02.10 | | WS.01.03 | WT.01.03 | |
| Secure Sockets Layer (SSL) | | 2.x | wa.01.05 | 3.1.128 | WS.01.05 | WT.01.03 | 2.4.5 |
| Secure Sockets Layer v3 (SSLv3) | | | | 4.5.0.37 | | | |

| Selected Software Features ¹ | ProCurve Networking Software Features | | | | | | |
|--|--|--------|----------|----------|-----------------------|-------------------|----------------------|
| | Earliest Software Version Required | | | | | | |
| | Access Points and Wireless Edge Services | | | | | | Discontinued Product |
| | 10ag | 420 | 530 | 700wl | 5300 WESM | 5400/8200 WESM | 520wl |
| Secure Shell (SSH) | | | | 4.1.1.37 | | | |
| Secure Shell v2 (SSHv2) | | 2.1.0 | wa.01.05 | 3.1.128 | | | |
| Secure http | | 2.1.0 | | 3.1.128 | WS.01.03 | WT.01.03 | |
| Secure Copy Protocol (SCP) | | | wa.01.05 | | | | |
| Management VLAN | | 2.1.0 | wa.01.05 | | WS.01.11 | WT.01.03 | |
| Management Access Control | WM.01.11 | 2.1.0 | wa.01.05 | | WS.01.05 | WT.01.03 | |
| 802.1X Supplicant | | 2.1.0 | | | | | |
| Security configuration per card | | | | | | | 2.4.5 |
| Separate Username/password for CLI and WEBUI | | 2.1.0 | | | WS.01.03 ⁶ | WT.01.03 | |
| Two Level Access: Operator (read) / Manager (read/write) | | 2.1.0 | | 3.1.128 | WS.01.03 | WT.01.03 | |
| Web-Users accounts | | | | | WS.02.07 | WT.01.03 | |
| Rate limiting | | | wa.01.05 | 4.1.1.37 | WS.01.05 | WT.01.03 | |
| Firewall | | | | | WS.02.07 | WT.01.03 | |
| Per-user ACLs | | | wa.01.05 | 3.1.128 | WS.01.05 | WT.01.03 | |
| IP and MAC ACLs | | | | | WS.02.07 | WT.01.03 | |
| Supportable by Airewave Management Platform (AMP) | | 2.0.39 | | | WS.01.03 | | |
| GRE tunnels | | | | | WS.02.07 | | |

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¹ For more information, visit our web site at www.procurve.com

² Supports multiple MAC address formats.

³ For 802.11b supports 64-bit and 128-bit only.

⁴ 2.1.2 applicable to 802.11b only

⁵ J8131A only

⁶ WS.01.03 for Web, WS.02.07 for CLI

⁷ Internal RADIUS server supports only one EAP type - PEAP-MSCHAPv2.

ProCurve Networking Software Features

Earliest Software Version Required

Discontinued Products

| | | | | | | | | | |
|--------------|--------------|---------------|----------------|-------|----------------|-------|-------|-------|------|
| 208T 224T | 212M 224M | 800T 2000B | 1600M 8000M | 2000A | 2400M 4000M | 2424M | 6208M | 6308M | 9408 |
|--------------|--------------|---------------|----------------|-------|----------------|-------|-------|-------|------|

Selected Software Features¹

| | | | | | | | | | |
|---|--|---------|---------|---------|--|---------|---------|---------|---------|
| Custom MAC addresses for virtual interfaces | | | | | | | | | |
| Jumbo frames | | | | | | | | | 02.x |
| Port Duplex Mismatch Detection | | | | | | | | | |
| Static Network Address Translation (NAT) | | | | | | | | | 02.x |
| Dynamic NAT | | | | | | | | | |
| Multiple configuration files | | | | | | | | | |
| Auto-MDI-X | | | | | | | | | |
| Wireless xl module support | | | | | | | | | |
| Wireless zl module support | | | | | | | | | |
| Fastboot | | | | | | | | | |
| TCP/UDP port closure | | | | | | | | | |
| Syslog external file | | | | | | | | | |
| Schedule Reload | | | | | | | | | |
| Uni-Directional Link Detection (UDLD) | | | | | | | | | |
| Loop Protection | | | | | | | | | |
| Saving Security Credentials in a Configuration File | | | | | | | | | |
| USB Secure Autorun | | | | | | | | | |
| Multicast Support | | | | | | | | | |
| IGMP | | D.05.04 | B.03.01 | C.05.02 | | C.05.04 | C.06.01 | 05.2.16 | 05.2.16 |
| IP Multicast snooping (data driven IGMPv3) | | | | C.08.01 | | C.08.01 | C.08.01 | | 02.x |
| IGMP v3 (interoperability only) | | | | | | | | | |
| Unicast Routing | | | | | | | | | |
| Static Routes | | | | | | | | 05.2.16 | 02.0.02 |
| IPX | | | | | | | | 05.2.16 | 02.0.02 |
| AppleTalk | | | | | | | | 05.2.16 | 02.0.02 |
| IP | | | | | | | | 05.2.16 | |
| IPv4 | | | | | | | | | 02.0.02 |
| IPv6 | | | | | | | | | 02.0.02 |
| RIP v1 | | | | | | | | 05.2.16 | 02.x |
| RIP v2 | | | | | | | | 05.2.16 | |
| OSPF | | | | | | | | 05.2.16 | 02.x |
| Equal Cost Multipath (ECMP) | | | | | | | | | 02.1.00 |
| ECMP with OSPF | | | | | | | | | |
| ECMP with RIP | | | | | | | | | |
| ECMP with Static Routes | | | | | | | | | |
| ECMP with BGP | | | | | | | | | |

ProCurve Networking Software Features

Earliest Software Version Required

Discontinued Products

| | | | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|
| 208T | 212M | 800T | 1600M | 2000A | 2400M | 2424M | 6208M | 6308M | 9408 |
| 224T | 224M | 2000B | 8000M | | 4000M | | | | |

Selected Software Features¹

| | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|
| Selectable queuing configurations | | | | | | | | | |
| Q-in-Q | | | | | | | | | |
| IPv6 | | | | | | | | | |
| IPv6 Host (Dual Stack) | | | | | | | | | |
| IPv6 MLD Multicast Snooping | | | | | | | | | |

*** Requires Premium License

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¹ For more information, visit our web site at www.procurve.com