

Benefits of Migrating to Cisco® Catalyst® 2960-X and 2960-XR Switches



Feature Comparison

| Trends | Features | Previous Access Switches | | | | Latest Access Switches | | Benefits |
|-----------------------|---|--------------------------|-------------|------------------|-------------------------|-------------------------|-------------------------|--|
| | | 2950 (EOL) | 2960G (EOL) | 2960 (EOL) | 2960-S | 2960-X | 2960-XR | |
| Scale/ Performance | Switching capacity | 13.6 Gbps | 32 Gbps | 17.6 Gbps | 176 Gbps | 216 Gbps | 216 Gbps | Support gigabit access growth for wired and wireless/802.11ac |
| | Full line rate for all 48 ports | N/A | N/A | ✓ | ✓ | ✓ | ✓ | |
| | Gigabit downlinks | N/A | ✓ | N/A | ✓ | ✓ | ✓ | |
| | 1G/10G uplinks | 2x1G | 4x1G | 2x1G or 4x1G | 2x10G or 4x1G | 2x10G or 4x1G | 2x10G or 4x1G | |
| | Stacking bandwidth | N/A | N/A | N/A | 40 Gbps 4 members | 80 Gbps 8 members | 80 Gbps 8 members | Easy and rapid deployment of more IP endpoints, supported on all ports |
| | PoE/PoE+ | N/A | N/A | PoE upto 370W | PoE/PoE+, up to 740W | PoE/PoE+, up to 740W | PoE/PoE+, up to 740W | |
| | Layer 3 dynamic routing (RIP ¹ , OSPF ²) | N/A | N/A | N/A | N/A | N/A | ✓ | |
| BYOD/ Mobility | IPv6 ready | N/A | N/A | N/A | ✓ | ✓ | ✓ | Support more traffic through IP address scalability |
| | NetFlow Lite | N/A | N/A | N/A | N/A | ✓ | ✓ | Superior user experience through application visibility and control |
| Advanced Security | Cisco TrustSec with SXP ³ | N/A | N/A | N/A | ✓ | ✓ | ✓ | Orchestrate role-based access to corporate resources |
| | Flexible 802.1x authentication | N/A | N/A | N/A | ✓ | ✓ | ✓ | Enable port-based network access control |
| | MACsec ⁴ (hardware ready) | N/A | N/A | N/A | N/A | ✓ | ✓ | For encryption compliance |
| | IPv6 First Hop Security | N/A | N/A | N/A | ✓ | ✓ | ✓ | Protect against IPv6 address theft and malicious attacks |
| Simplicity and SDN | Smart Install | N/A | N/A | ✓ | ✓ | ✓ | ✓ | Zero-touch configuration and Cisco IOS Software updates when deploying new switches |
| | Auto SmartPorts and Auto QoS | N/A | ✓ | ✓ | ✓ | ✓ | ✓ | Automatically configures interfaces based on the type of device connected |
| | Cross-stack QoS | N/A | N/A | N/A | ✓ | ✓ | ✓ | Simplify operations by propagating QoS settings consistently across the stack |
| | SDN/programmability • Cisco onePK ready | N/A | N/A | N/A | N/A | ✓ | ✓ | Simplicity and business agility |
| Energy Efficiency | Green features • Switch hibernation • Energy Efficient Ethernet (EEE) | N/A | N/A | N/A | N/A | ✓ | ✓ | Rapid ROI – saved over 50% in annual energy operating costs compared to the Industry Average (Source: Miercom report) ⁵ |

¹ RIP – Routing Information Protocol ² OSPF – Open Shortest Path First Protocol ³ SXP – Security Group Tag Exchange Protocol

⁴ MACsec – IEEE Media Access Control Security Standard ⁵ <http://miercom.com/pdf/reports/20131112.pdf>