

# HP 5500 EI & 5500 SI Switch Series

## About the HP 5500 EI & 5500 SI Command References

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# About the HP 5500 EI & 5500 SI Command References

The HP 5500 EI & 5500 SI command references are part of the HP 5500 EI & 5500 SI documentation set. They describe the commands and command syntax options available for the HP 5500 EI & 5500 SI Switch Series Release 2220. The HP 5500 EI & 5500 SI documentation set includes 10 command references:

Command Reference	Content
01 Fundamentals Command Reference	<p>Covers the commands for logging in to and setting up the Switch. This command reference includes:</p> <ul style="list-style-type: none"><li>• CLI</li><li>• Login management</li><li>• FTP</li><li>• TFTP client</li><li>• File system management</li><li>• Configuration file management</li><li>• Software upgrade</li><li>• ISSU (available only on the HP 5500 EI)</li><li>• Device management</li></ul>
02 IRF Command Reference	<p>Covers the commands for configuring the HP proprietary Intelligent Resilient Framework (IRF) technology features. It covers planning the switch roles in the IRF fabric, connecting the IRF links, and detecting and maintaining the IRF fabric.</p>
03 Layer 2 – LAN Switching Command Reference	<p>Covers the commands for configuring Layer 2 technologies and features in a LAN switched network. This command reference includes:</p> <ul style="list-style-type: none"><li>• Ethernet interface</li><li>• Loopback and null interface</li><li>• Bulk interface configuration</li><li>• MAC address table</li><li>• MAC Information</li><li>• Ethernet link aggregation</li><li>• Port isolation</li><li>• Spanning tree</li><li>• BPDU tunneling</li><li>• VLAN</li><li>• Super VLAN (available only on the HP 5500 EI)</li><li>• Isolate-user-VLAN</li><li>• Voice VLAN</li><li>• GVRP</li><li>• QinQ</li><li>• VLAN mapping (available only on the HP 5500 EI)</li><li>• LLDP</li><li>• Service loopback group (available only on the HP 5500 EI)</li></ul>

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Command Reference	Content
04 Layer 3 – IP Services Command Reference	<ul style="list-style-type: none"> <li>• MVRP</li> </ul> <p>Covers the commands for configuring IP addressing, DHCP, IP performance optimization, ARP, DNS, IPv6 basics, UDP Helper, DHCPv6 and Tunneling. This command reference includes:</p> <ul style="list-style-type: none"> <li>• ARP</li> <li>• Gratuitous ARP</li> <li>• Proxy ARP</li> <li>• ARP snooping</li> <li>• IP addressing</li> <li>• DHCP server</li> <li>• DHCP relay agent</li> <li>• DHCP client</li> <li>• DHCP snooping</li> <li>• BOOTP client</li> <li>• IPv4 DNS</li> <li>• IRDP</li> <li>• IP performance optimization</li> <li>• UDP Helper</li> <li>• IPv6 basics</li> <li>• DHCPv6</li> <li>• IPv6 DNS</li> <li>• Tunneling (available only on the HP 5500 EI)</li> </ul>
	<p>Covers the routing configuration commands. This command reference includes:</p> <ul style="list-style-type: none"> <li>• Basic IP routing</li> <li>• Static routing</li> <li>• RIP</li> <li>• OSPF (available only on the HP 5500 EI)</li> <li>• IS-IS (available only on the HP 5500 EI)</li> <li>• BGP (available only on the HP 5500 EI)</li> <li>• IPv6 static routing</li> <li>• RIPng</li> <li>• OSPFv3 (available only on the HP 5500 EI)</li> <li>• IPv6 IS-IS (available only on the HP 5500 EI)</li> <li>• IPv6 BGP (available only on the HP 5500 EI)</li> <li>• Routing policy</li> <li>• Policy-based routing (available only on the HP 5500 EI)</li> <li>• MCE (available only on the HP 5500 EI)</li> <li>• IPv6 MCE (available only on the HP 5500 EI)</li> </ul>
06 IP Multicast Command Reference	<p>Covers the commands for configuring Layer 2 and Layer 3 multicast services. This command reference includes:</p> <ul style="list-style-type: none"> <li>• IGMP snooping</li> <li>• PIM snooping</li> <li>• Multicast VLAN</li> <li>• Multicast routing and forwarding (available only on the HP 5500 EI)</li> <li>• IGMP (available only on the HP 5500 EI)</li> </ul>

Command Reference	Content
	<ul style="list-style-type: none"> <li>• PIM (available only on the HP 5500 EI)</li> <li>• MSDP (available only on the HP 5500 EI)</li> <li>• MBGP (available only on the HP 5500 EI)</li> <li>• MLD snooping</li> <li>• IPv6 PIM snooping</li> <li>• IPv6 multicast VLAN</li> <li>• IPv6 multicast routing and forwarding (available only on the HP 5500 EI)</li> <li>• MLD (available only on the HP 5500 EI)</li> <li>• IPv6 PIM (available only on the HP 5500 EI)</li> <li>• IPv6 MBGP (available only on the HP 5500 EI)</li> </ul>
07 ACL and QoS Command Reference	<p>Covers the commands for classifying traffic with ACLs, and allocating network resources and managing congestions with QoS technologies to improve network performance and network use efficiency. This command reference includes:</p> <ul style="list-style-type: none"> <li>• ACL</li> <li>• QoS policy</li> <li>• Priority mapping</li> <li>• GTS and rate limit</li> <li>• Congestion management</li> <li>• Congestion avoidance (available only on the HP 5500 EI)</li> <li>• Data buffer</li> </ul>
08 Security Command Reference	<p>Covers security feature commands. Available security features include identity authentication (AAA), access security (802.1X, MAC authentication, portal and port security), secure management (SSH), and attack protection (IP source guard, ARP attack protection, and URPF). This command reference includes:</p> <ul style="list-style-type: none"> <li>• AAA</li> <li>• 802.1X</li> <li>• EAD fast deployment</li> <li>• MAC authentication</li> <li>• Portal</li> <li>• Port security</li> <li>• User profile</li> <li>• Password control</li> <li>• HABP</li> <li>• Public key</li> <li>• PKI</li> <li>• IPsec</li> <li>• IKE</li> <li>• SSH2.0</li> <li>• SFTP</li> <li>• SCP</li> <li>• SSL</li> <li>• TCP attack protection</li> <li>• IP source guard</li> <li>• ARP attack protection</li> </ul>

Command Reference	Content
	<ul style="list-style-type: none"> <li>• ND attack protection</li> <li>• URPF (available only on the HP 5500 EI)</li> <li>• SAVI</li> <li>• Blacklist</li> <li>• FIPS</li> </ul>
09 High Availability Command Reference	<p>Covers high availability commands for managing failure detection and failover. Failure detection technologies focus on fault detection and isolation. Failover technologies focus on network recovery. This command reference includes:</p> <ul style="list-style-type: none"> <li>• Ethernet OAM</li> <li>• CFD</li> <li>• DLDP</li> <li>• RRPP</li> <li>• Smart Link</li> <li>• Monitor Link</li> <li>• VRRP (available only on the HP 5500 EI)</li> <li>• Stateful failover (available only on the HP 5500 EI)</li> <li>• BFD (available only on the HP 5500 EI)</li> <li>• Track</li> </ul>
10 Network Management and Monitoring Command Reference	<p>Covers the commands that help you manage and monitor your network, for example, manage system events, sample packets, assess network performance, synchronize the clock for all devices with the clock in the network, supply power for attached devices by using PoE, and test network connectivity. This command reference includes:</p> <ul style="list-style-type: none"> <li>• Ping, tracer, and system debugging</li> <li>• NTP</li> <li>• Information center</li> <li>• SNMP</li> <li>• RMON</li> <li>• Port mirroring</li> <li>• Traffic mirroring</li> <li>• NQA</li> <li>• sFlow</li> <li>• IPC</li> <li>• PoE</li> <li>• Cluster management</li> <li>• Stack management (available only on the HP 5500 SI)</li> <li>• CWMP (available only on the HP 5500 EI)</li> </ul>