

# HP A3100 v2 Switch Series

## About the A3100 v2 Configuration Guides

HP A3100-8 v2 SI Switch (JG221A)

HP A3100-16 v2 SI Switch (JG222A)

HP A3100-24 v2 SI Switch (JG223A)

HP A3100-8 v2 EI Switch (JD318B)

HP A3100-16 v2 EI Switch (JD319B)

HP A3100-24 v2 EI Switch (JD320B)

HP A3100-8-PoE v2 EI Switch (JD311B)

HP A3100-16-PoE v2 EI Switch (JD312B)

HP A3100-24-PoE v2 EI Switch (JD313B)

Part number: 5998-1962

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# About the HP A3100 v2 configuration guides

The HP A3100 v2 configuration guides are part of the HP A3100 v2 documentation set. They describe the software features for the HP A3100 v2 Switch Series Release5103, and guide you through the software configuration procedures. These configuration guides also provide configuration examples to help you apply the software features to different network scenarios. The HP A3100 v2 documentation set includes 9 configuration guides:

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| <b>Configuration guide</b>       | <b>Content</b>   |
|----------------------------------|--|
| Fundamentals Configuration Guide | <p>Describes how to use the command line interface of the switch, log in to and set up the switch, and use the automatic configuration function. This guide includes:</p> <ul style="list-style-type: none"><li>• CLI configuration</li><li>• Login methods</li><li>• CLI login</li><li>• Web login</li><li>• NMS login</li><li>• User login control</li><li>• FTP configuration</li><li>• TFTP configuration</li><li>• File management</li><li>• Configuration file management</li><li>• Software upgrade configuration</li><li>• Device management</li><li>• Automatic configuration</li></ul> |

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| Configuration guide                         | Content  |
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| Layer 2 – LAN Switching Configuration Guide | <p data-bbox="608 232 1426 357">Covers Layer 2 technologies and features used on a LAN switched network, such as VLAN technology, port isolation, MSTP. You can use these features to divide broadcast domains, remove Layer 2 loops, isolate users within a VLAN, re-mark VLAN tags, and so on. This guide includes:</p> <ul data-bbox="608 372 1426 972" style="list-style-type: none"> <li data-bbox="608 372 975 405">• Ethernet interface configuration</li> <li data-bbox="608 416 1082 448">• Loopback and null interface configuration</li> <li data-bbox="608 459 995 491">• MAC address table configuration</li> <li data-bbox="608 502 975 534">• MAC information configuration</li> <li data-bbox="608 545 1059 577">• Ethernet Link aggregation configuration</li> <li data-bbox="608 588 927 620">• Port Isolation configuration</li> <li data-bbox="608 631 852 664">• MSTP configuration</li> <li data-bbox="608 674 1337 707">• BPDU tunneling configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 717 852 750">• VLAN configuration</li> <li data-bbox="608 761 1305 793">• Voice VLAN configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 804 852 836">• GVRP configuration</li> <li data-bbox="608 847 852 879">• QinQ configuration</li> <li data-bbox="608 890 1347 922">• VLAN Mapping Configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 933 836 965">• LLDP configuration</li> </ul> |
| Layer 3 – IP Services Configuration Guide   | <p data-bbox="608 993 1426 1052">Describes how to configure IP addressing, DHCP, IP performance optimization, ARP, DNS, IPv6 basics and DHCPv6,. This guide includes:</p> <ul data-bbox="608 1067 1426 1666" style="list-style-type: none"> <li data-bbox="608 1067 836 1099">• ARP configuration</li> <li data-bbox="608 1110 951 1142">• Gratuitous ARP configuration</li> <li data-bbox="608 1153 932 1185">• IP addressing configuration</li> <li data-bbox="608 1196 810 1228">• DHCP overview</li> <li data-bbox="608 1239 916 1272">• DHCP client configuration</li> <li data-bbox="608 1282 959 1315">• DHCP snooping configuration</li> <li data-bbox="608 1325 932 1358">• BOOTP client configuration</li> <li data-bbox="608 1369 895 1401">• IPv4 DNS configuration</li> <li data-bbox="608 1412 895 1444">• IPv6 DNS configuration</li> <li data-bbox="608 1455 1086 1487">• IP performance optimization configuration</li> <li data-bbox="608 1498 906 1530">• IPv6 basics configuration</li> <li data-bbox="608 1541 836 1573">• DHCPv6 overview</li> <li data-bbox="608 1584 943 1617">• DHCPv6 client configuration</li> <li data-bbox="608 1627 986 1660">• DHCPv6 snooping configuration</li> </ul>   |
| Layer 3 – IP Routing Configuration Guide    | <p data-bbox="608 1688 1426 1720">Covers the routing technologies for IPv4 and IPv6 networks. This guide includes:</p> <ul data-bbox="608 1731 1426 1849" style="list-style-type: none"> <li data-bbox="608 1731 858 1763">• IP Routing Overview</li> <li data-bbox="608 1774 938 1806">• Static Routing Configuration</li> <li data-bbox="608 1817 991 1849">• IPv6 Static Routing Configuration</li> </ul>   |

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| Configuration guide              | Content  |
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| IP Multicast Configuration Guide | <p data-bbox="608 232 1386 291">Describes Layer 2 multicast fundamentals and configuration. This guide includes:</p> <ul data-bbox="608 310 1386 513" style="list-style-type: none"><li data-bbox="608 310 839 332">• Multicast overview</li><li data-bbox="608 351 954 372">• IGMP snooping configuration</li><li data-bbox="608 392 954 413">• Multicast VLAN configuration</li><li data-bbox="608 433 1329 454">• MLD snooping configuration (available only on the A3100 v2 EI)</li><li data-bbox="608 474 1386 495">• IPv6 multicast VLAN configuration (available only on the A3100 v2 EI)</li></ul> |

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| Configuration guide             | Content   |
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| ACL and QoS Configuration Guide | <p data-bbox="608 232 1426 325">Describes how to classify traffic with ACLs, and allocate network resources and manage congestions with QoS technologies to improve network performance and network use efficiency. This guide includes:</p> <ul data-bbox="608 340 1426 853" style="list-style-type: none"> <li data-bbox="608 340 836 372">• ACL configuration</li> <li data-bbox="608 383 794 416">• QoS overview</li> <li data-bbox="608 426 970 459">• QoS configuration approaches</li> <li data-bbox="608 470 963 502">• Priority mapping configuration</li> <li data-bbox="608 513 1257 545">• Traffic policing, traffic shaping, and line rate configuration</li> <li data-bbox="608 556 1050 588">• Congestion management configuration</li> <li data-bbox="608 599 1326 631">• Traffic filtering configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 642 1342 674">• Priority marking configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 685 1358 717">• Traffic redirecting configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 728 1426 761">• Class-based accounting configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 771 836 804">• Burst configuration</li> <li data-bbox="608 814 746 847">• Appendix</li> </ul>   |
| Security Configuration Guide    | <p data-bbox="608 875 1426 1026">Covers security features. The major security features available on the switch include identity authentication (AAA and PKI), access security (802.1X, MAC authentication, and so on), secure management (SSH), SSL, and attack protection (IP source guard, ARP attack protection, and so on). This guide includes:</p> <ul data-bbox="608 1041 1426 1910" style="list-style-type: none"> <li data-bbox="608 1041 836 1073">• AAA configuration</li> <li data-bbox="608 1084 874 1116">• 802.1X fundamentals</li> <li data-bbox="608 1127 874 1159">• 802.1X configuration</li> <li data-bbox="608 1170 1394 1203">• EAD fast deployment configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 1213 1002 1246">• MAC authentication configuration</li> <li data-bbox="608 1256 1235 1289">• Portal configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 1300 1390 1332">• Triple authentication configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 1343 916 1375">• Port security configuration</li> <li data-bbox="608 1386 911 1418">• User profile configuration</li> <li data-bbox="608 1429 852 1461">• HABP configuration</li> <li data-bbox="608 1472 895 1504">• Public key configuration</li> <li data-bbox="608 1515 826 1548">• PKI configuration</li> <li data-bbox="608 1558 874 1591">• SSH2.0 configuration</li> <li data-bbox="608 1601 836 1634">• SFTP configuration</li> <li data-bbox="608 1645 826 1677">• SSL configuration</li> <li data-bbox="608 1688 1011 1720">• TCP attack protection configuration</li> <li data-bbox="608 1731 1342 1763">• IP source guard configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 1774 1011 1806">• ARP attack protection configuration</li> <li data-bbox="608 1817 986 1849">• ND attack defense configuration</li> <li data-bbox="608 1860 1230 1892">• SAVI configuration (available only on the A3100 v2 EI)</li> </ul> |

| Configuration guide                                   | Content  |
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| High Availability Configuration Guide                 | <p data-bbox="608 232 1426 357">Describes high availability technologies and features available on the switch for failure detection and failover. Failure detection technologies focus on fault detection and isolation. Failover technologies focus on network recovery. This guide includes:</p> <ul data-bbox="608 375 1305 577" style="list-style-type: none"> <li data-bbox="608 375 919 407">• High availability overview</li> <li data-bbox="608 418 943 450">• Ethernet OAM configuration</li> <li data-bbox="608 461 847 493">• DLDP configuration</li> <li data-bbox="608 504 1286 536">• Smart Link configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 547 1305 577">• Monitor Link configuration (available only on the A3100 v2 EI)</li> </ul>   |
| Network Management and Monitoring Configuration Guide | <p data-bbox="608 599 1426 752">Describes features that help you manage and monitor your network, for example, manage system events, assess network performance, synchronize the clock for all devices with the clock in the network, supply power for attached devices by using PoE, perform cluster management for switches, and test network connectivity. This guide includes:</p> <ul data-bbox="608 769 1347 1239" style="list-style-type: none"> <li data-bbox="608 769 1027 802">• System maintenance and debugging</li> <li data-bbox="608 812 847 845">• NQA configuration</li> <li data-bbox="608 855 836 888">• NTP configuration</li> <li data-bbox="608 899 1214 931">• PoE configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 942 858 974">• SNMP configuration</li> <li data-bbox="608 985 868 1017">• RMON configuration</li> <li data-bbox="608 1028 1007 1060">• Cluster management configuration</li> <li data-bbox="608 1071 935 1103">• Port mirroring configuration</li> <li data-bbox="608 1114 1347 1146">• Traffic mirroring configuration (available only on the A3100 v2 EI)</li> <li data-bbox="608 1157 995 1190">• Stack Management configuration</li> <li data-bbox="608 1200 979 1233">• Information center configuration</li> </ul> |

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