



Router Configuration Parameters

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Nested Structure

All items in the `<router_configuration>` section of the XML file need to be nested under `<router-configuration>` and the section headings as shown below.

- The `</router-configuration>` tag must appear at the end of the section.
- In the XML file, each section can be opened or closed by clicking the section heading. A + symbol indicates that a section is closed, and a -symbol indicates that it is open.
- To enter a null value, enter a backslash at the end of the parameter name, as show in this example:
`<MAC_Address_Clone_Address />`

Nested Sections

```
- <flat-profile>
  ...
  ...
- <router-configuration>
  + <WAN_Basic_Setting>
  + <WAN_Interface>
  + <WAN_IP6_Setting>
  + <PHY_Port_Setting>
  + <MAC_Address_Clone>
  + <Internet_Option>
  + <DHCP_Server_Pool>
  + <LAN_IP6_Setting>
  + <WAN_VLAN_Setting>
  + <CLDP_Setting>
  + <Single_Port_Forwarding>
  + <Port_Rang_Forwarding>
  + <SNMP>
  + <Time_Setup>
  <QoS_Bandwidth_Control>
  + <Software_DMZ>
  <Bonjour_Enable>1</Bonjour_Enable>
  <Reset_Button_Enable>1</Reset_Button_Enable>
  <Router_Mode>1</Router_Mode>
  <Monitor_WAN_Port_Only>0</Monitor_WAN_Port_Only>
  + <VPN_Passthrough>
  + <Web_Management>
  + <TR-069>
  + <Log_Configuration>
  <Web_Login_Admin_Name>admin</Web_Login_Admin_Name>
  <!-- <Web_Login_Admin_Password></Web_Login_Admin_Password -->
  <Web_Login_Guest_Name>cisco</Web_Login_Guest_Name>
  <!-- <Web_Login_Guest_Password></Web_Login_Guest_Password -->
  + <SSH>
  </router-configuration>
</flat-profile>
```

WAN_Basic_Setting Parameters

This section describes the parameters in the `<x>` section of the config.xml file.

TIP: You can click the `<x>` heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
WAN_Stack_Mode	<p>Description—IP stack mode</p> <p>User Interface—Network Setup > Basic Settings page, Stack Mode field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: IPv4 Only • 1: IPv6 Only • 2: Dual Stack <p>Default—0</p>
WAN_Signal_Preference	<p>Description—Preference IP mode for SIP Signaling.</p> <p>User Interface—Network Setup > Basic Settings page, Signaling Preference field.</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Prefer IPv4 • 1: Prefer IPv6 <p>Default—0</p>
WAN_Media_Preference	<p>Description—Preference IP mode for RTP stream.</p> <p>User Interface—Network Setup > Basic Settings page, Media Preference field.</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Prefer IPv4 • 1: Prefer IPv6 <p>Default—0</p>

WAN_Interface Parameters

This section describes the parameters in the <WAN_Interface> section of the config.xml file.

TIP: You can click the <WAN_Interface> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
<WAN_Connection_Type>	<p>Description—Defines the connection/addressing mode used for the INTERNET (WAN) port.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, Connection Type field</p> <p>Values</p> <ul style="list-style-type: none"> • dh: DHCP • st: Static • pp: PPPoE <p>Default—dh</p> <p>Example—Static connection type</p> <pre><WAN_Connection_Type>st</WAN_Connection_Type></pre>
<WAN_DHCP_MTU_Mode> <WAN_Static_MTU_Mode> <WAN_PPPoE_MTU_Mode>	<p>Description—MTU mode. Use the parameter corresponding to the configured connection type.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, MTU drop-down list</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Auto • 1: Manual <p>Default—0</p> <p>Example—Manual MTU mode for a static connection</p> <pre><WAN_Static_MTU_Mode>1</WAN_Static_MTU_Mode></pre>
<WAN_DHCP_MTU_Size> <WAN_Static_MTU_Size> <WAN_PPPoE_MTU_Size>	<p>Description—MTU size. Use the parameter corresponding to the configured connection type.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, MTU text box</p> <p>Values—576 to 1492</p> <p>Default—0</p> <p>Example—Customized MTU size for PPPoE</p> <pre><WAN_PPPoE_MTU_Size>1492</WAN_PPPoE_MTU_Size></pre>

Parameter	Details
<WAN_Static_IP_NET>	<p>Description—Specifies the IPv4 address for the Static IP connection.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, Internet IPv4, Subnet Mark, and Default Gateway text boxes (available when Static IP is the Connection Type)</p> <p>Parameters—Internet_IP:Subnet_Mask:Default_Gateway [:DNS1[:DNS2[:DNS3]]]</p> <p>Values</p> <ul style="list-style-type: none"> • Internet_IP: IPv4 address • Subnet_Mask: IPv4 mask address • Default_Gateway: IPv4 address • DNS_1: IPv4 address • DNS_2: IPv4 address • DNS_3: IPv4 address <p>Default—0.0.0.0:0.0.0.0:0.0.0.0:0.0.0.0:0.0.0.0:0.0.0.0</p> <p>Example</p> <pre><WAN_Static_IP_NET>10.1.1.1:255.255.255.0:10.1.1.254:10.1.1.2:10.1.1.3</WAN_Static_IP_NET></pre>
<WAN_PPPOE_User_Name>	<p>Description—Username for PPTP session through the INTERNET (WAN) port.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, User Name field (available when PPPoE is the Connection Type)</p> <p>Values—(up to 64 characters), Printable ASCII characters</p> <p>Default—null</p> <p>Example</p> <pre><WAN_PPPOE_User_Name>test@example.net</WAN_PPPOE_User_Name></pre>
<WAN_PPPOE_Password>	<p>Description—Configures the interface settings for defined VLAN sub interfaces. VLAN ID n must be previously defined in the VLAN_ID_Index tag. This tag defines the password for PPPoE session configured over the sub interface. Note: the value of this field is hidden when reading the config.xml file from the device.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, Password field (available when PPPoE is the Connection Type)</p> <p>Values—password (up to 64 characters)</p> <p>Default—commented out, <!--</p> <pre><WAN_PPPOE_Password></WAN_PPPOE_Password--></pre> <p>Example</p> <pre><WAN_PPPOE_Password>my-password</WAN_PPPOE_Password></pre>

Parameter	Details
<WAN_PPPOE_Service_Name>	<p>Description—Descriptive service name (provided by the ISP), for a PPPoE session.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, Service Name field (available when PPPoE is the Connection Type)</p> <p>Parameter—Service name</p> <p>Values—name (up to 64 characters)</p> <p>Default—null</p> <p>Example</p> <pre><WAN_PPPOE_Service_Name>ServiceX_PPP</WAN_PPPOE_Service_Name></pre>
<WAN_PPPOE_Keep_Alive>	<p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, Keep Alive field, Connect on Demand, and Max Idle fields (available when PPPoE is the Connection Type)</p> <p>Description—Keep Alive or Connect on Demand settings for a PPPoE session configured.</p> <p>Parameter—Type:Max_Idle_Time:30</p> <p>Values</p> <ul style="list-style-type: none"> • Type: <ul style="list-style-type: none"> • 0 (Keep Alive) • 1 (Connect on Demand) • Max_Idle_Time (Minutes)=1...9999 (for Connect on Demand) • 30 is a static value <p>Default—0:0:30</p> <p>Example</p> <pre><WAN_PPPOE_Keep_Alive>1:5:30</WAN_PPPOE_Keep_Alive></pre>

WAN Example 1: DHCP with automatic MTU mode

```
<router-configuration>
<WAN_Interface>
<WAN_Connection_Type>dh</WAN_Connection_Type>
<WAN_DHCP_MTU_Mode>0</WAN_DHCP_MTU_Mode>
<WAN_DHCP_MTU_Size>0</WAN_DHCP_MTU_Size>
<WAN_Static_IP_NET>0.0.0.0:0.0.0.0:0.0.0.0</WAN_Static_IP_NET>
<WAN_Static_MTU_Mode>0</WAN_Static_MTU_Mode>
<WAN_Static_MTU_Size>0</WAN_Static_MTU_Size>
<WAN_PPPOE_User_Name />
<WAN_PPPOE_Service_Name />
<WAN_PPPOE_Password />
<WAN_PPPOE_Keep_Alive>0:0:30</WAN_PPPOE_Keep_Alive>
<WAN_PPPOE_MTU_Mode>0</WAN_PPPOE_MTU_Mode>
<WAN_PPPOE_MTU_Size>0</WAN_PPPOE_MTU_Size>
</WAN_Interface>
```

```
...
</router-configuration>
```

WAN Example 2: Static IP with manual MTU mode

```
<router-configuration>
...
<WAN_Interface>
<WAN_Connection_Type>st</WAN_Connection_Type>
<WAN_DHCP_MTU_Mode>0</WAN_DHCP_MTU_Mode>
<WAN_DHCP_MTU_Size>0</WAN_DHCP_MTU_Size>
<WAN_Static_IP_NET>10.1.1.1:255.255.255.0:10.1.1.254:10.1.1.2:10.1.1.3</
WAN_Static_IP_NET>
<WAN_Static_MTU_Mode>1</WAN_Static_MTU_Mode>
<WAN_Static_MTU_Size>1492</WAN_Static_MTU_Size>
</WAN_Interface>
...
</router-configuration>
```

WAN Example 3: PPPoE with Connect on Demand

```
<router-configuration>
...
<WAN_Interface>
<WAN_Connection_Type>pppoe</WAN_Connection_Type>
<WAN_DHCP_MTU_Mode>0</WAN_DHCP_MTU_Mode>
<WAN_DHCP_MTU_Size>0</WAN_DHCP_MTU_Size>
<WAN_Static_IP_NET>0.0.0.0:0.0.0.0:0.0.0.0</WAN_Static_IP_NET>
<WAN_Static_MTU_Mode>0</WAN_Static_MTU_Mode>
<WAN_Static_MTU_Size>0</WAN_Static_MTU_Size>
<WAN_PPPoE_User_Name>test@example.net</WAN_PPPoE_User_Name>
<WAN_PPPoE_Password>my-password</WAN_PPPoE_Password>
<WAN_PPPoE_Service_Name>ServiceX_PPP</WAN_PPPoE_Service_Name>
<WAN_PPPoE_Keep_Alive>1:5:30</WAN_PPPoE_Keep_Alive>
<WAN_PPPoE_MTU_Mode>0</WAN_PPPoE_MTU_Mode>
<WAN_PPPoE_MTU_Size>0</WAN_PPPoE_MTU_Size>
</WAN_Interface>
...
</router-configuration>
```

WAN_IP6_Setting Parameters

This section describes the parameters in the <WAN_IP6_Setting> section of the config.xml file.

TIP: You can click the <WAN_IP6_Setting> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
WAN_IP6_Allow_AutoConfig	<p>Description—Set enabled to allow stateless IPv6 address generation on receiving RA.</p> <p>User Interface—Network Setup > IPv6 Settings page, Allow Auto Configuration field.</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p>
WAN_IP6_Connection_Type	<p>Description—IPv6 connection type</p> <p>User Interface—Network Setup > IPv6 Settings page, Connection Type field.</p> <p>Values</p> <ul style="list-style-type: none"> • 0: DHCPv6 • 1: Static • 2: PPPoE <p>Default—0</p>
WAN_Static_IP6_Address	<p>Description—Manually configured IP v6 address.</p> <p>User Interface—Network Setup > IPv6 Settings page, Internet IPv6 Address field.</p> <p>Values—address (up to 64 characters)</p> <p>Default—null</p>
WAN_Static_IP6_Prefix_Length	<p>Description—Manually configured IP v6 prefix length.</p> <p>User Interface—Network Setup > IPv6 Settings page, Prefix Length field.</p> <p>Values—0 to 64</p> <p>Default—64</p>
WAN_Static_IP6_Gateway	<p>Description—Manually configured IPv6 router address</p> <p>User Interface—Network Setup > IPv6 Settings page, Default Gateway field.</p> <p>Values—0-64</p> <p>Default—null</p>

PHY_Port_Setting Parameters

This section describes the parameters in the <PHY_Port_Setting> section of the config.xml file.

TIP: You can click the <PHY_Port_Setting> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
<Flow_Control>	<p>Description—Enables or disables flow control</p> <p>User Interface—Interface Setup > Advanced Settings > Port Setting page, Flow Control field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example—Flow control enabled <Flow_Control>1</Flow_Control></p>
<Speed_Duplex>	<p>Description—The port speed and duplex mode</p> <p>User Interface—Interface Setup > Advanced Settings > Port Setting page, Speed Duplex field</p> <p>Values</p> <ul style="list-style-type: none"> • auto • 10h • 10f • 100h • 100f <p>Default—auto</p> <p>Example—100 Mbps, half-duplex mode <Speed_Duplex>100h</Speed_Duplex></p>

<PHY_Port_Setting> Example: Flow control enabled with auto-negotiated duplex mode

```

<router-configuration>
...
<PHY_Port_Setting>
<Flow_Control>1</Flow_Control>
<Speed_Duplex>auto</Speed_Duplex>
</PHY_Port_Setting>
...
</router-configuration>

```

MAC_Address_Clone Parameters

This section describes the parameters in the <MAC_Address_Clone> section of the config.xml file.

TIP: You can click the <MAC_Address_Clone> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
<MAC_Address_Clone_Enabled>	<p>Description—Enables or disables MAC address cloning.</p> <p>User Interface—Interface Setup > Advanced Settings > MAC Address Clone page, MAC Clone field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—MAC clone enabled</p> <pre><MAC_Address_Clone_Enabled>1</MAC_Address_Clone_Enabled></pre>
<MAC_Address_Clone_Address>	<p>Description—MAC address to assign (clone) to this ATA</p> <p>User Interface—Interface Setup > Advanced Settings > MAC Address Clone page, MAC Address field (available when MAC Clone is enabled)</p> <p>Values—MAC address</p> <p>Default—null</p> <p>Example</p> <pre><MAC_Address_Clone_Address>00:22:68:19:EF:83</MAC_Address_Clone_Address></pre>

<MAC_Address_Clone> Example: MAC Address Clone enabled

```
<router-configuration>
...
<MAC_Address_Clone>
<MAC_Address_Clone_Enabled>1</MAC_Address_Clone_Enabled>
<MAC_Address_Clone_Address>00:22:68:19:EF:83</MAC_Address_Clone_Address>
</MAC_Address_Clone>
...
</router-configuration>
```

Internet_Option Parameters

This section describes the parameters in the <Internet_Option> section of the config.xml file.

TIP: You can click the <Internet_Option> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
<Host_Name>	<p>Description—The name of the ATA</p> <p>User Interface—Network Setup > Basic Setup > Basic Settings page, Host Name field</p> <p>Values—name</p> <p>Default—model number</p> <p>Example</p> <p><Host_Name>ATA-192-MPP</Host_Name></p>
<Domain_Name>	<p>Description—A domain name specified by the ISP, if applicable</p> <p>User Interface—Network Setup > Basic Setup > Basic Settings page, Domain Name field</p> <p>Values—name</p> <p>Default—null</p> <p>Example</p> <p><Domain_Name>My ISP</Domain_Name></p>
<DNS_Order>	<p>Description—Method for choosing a DNS server</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, DNS Server Order field</p> <p>Values</p> <ul style="list-style-type: none"> • 0:Manual • 1:Manual-DHCP • 2:DHCP-Manual <p>Default—2</p> <p>Example—Manual-DHCP order</p> <p><DNS_Order>2</DNS_Order></p>
<DNS>	<p>Description—For manual DNS server order, the IPv4 address of a DNS server; optionally, a secondary server can be specified</p> <p>User Interface—Network Setup > Basic Setup > IPv4 Settings page, Primary DNS and Secondary DNS fields</p> <p>Values—DNS1[:DNS2]</p> <p>Default—null</p> <p>Example—Primary and secondary DNS server</p> <p><DNS>209.165.201.1:209.165.201.2</DNS></p>

Parameter	Details
DNS6_Order	<p>Description—IPv6 DNS server order</p> <p>User Interface—Network Setup > IPv6 Settings page, DNS Server Order field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: only use manual DNS server • 1: manual DNS server first, then dhcpv6 DNS server • 2: dhcpv6 DNS server first, then manual DNS server <p>Default—2</p>
DNS6	<p>Description—manual configured IPv6 DNS server, optionally a secondary server can be specified</p> <p>User Interface—Network Setup > IPv6 Settings page, Primary DNS and Secondary DNS fields</p> <p>Values—DNS6_1[:DNS6_2]</p> <p>Default—null</p>

<Internet_Option> Example

```

<router-configuration>
...
<Internet_Option>
<Host_Name>ATA192-MPP</Host_Name>
<Domain_Name>My ISP</Domain_Name>
<DNS_Order>2</DNS_Order>
<DNS>209.165.201.1:209.165.201.2</DNS>
</Internet_Option>
...
</router-configuration>

```

DHCP_Server_Pool Parameters

This section describes the parameters in the <DHCP_Server_Pool> section of the config.xml file.

Rule

All parameters in the <DHCP_Server> section of the XML file are nested between <Rule> and </Rule>.

Parameter	Details
<DHCP_Server>	<p>Description—Enables or disables the DHCP server</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, DHCP Server field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example—DHCP server enabled <DHCP_Server>1</DHCP_Server></p>
<Local_IP>	<p>Description—The IPv4 address of the LAN interface</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Local IP address field</p> <p>Values—IPv4 address</p> <p>Default—192.168.15.1</p> <p>Example: <Local_IP>192.168.15.1</Local_IP></p>
<Subnet_Mask>	<p>Description—The subnet mask for the local network</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Subnet Mask field</p> <p>Values—Class C subnet mask</p> <ul style="list-style-type: none"> • 255.255.255.0 • 255.255.255.128 • 255.255.255.192 • 255.255.255.224 • 255.255.255.240 • 255.255.255.248 • 255.255.255.252 <p>Default—255.255.255.0</p> <p>Example: <Subnet_Mask>255.255.255.0</Subnet_Mask></p>

Parameter	Details
<DHCP_Client_Table>	<p>Description—Clients with reserved IPv4 addresses</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, IP Reservation list (available after clicking the Show DHCP Reservation button)</p> <p>Values—Semi-colon separated list of client information in the following order: <MAC address> <ip_address> on <client_name></p> <p>Default—null</p> <p>Example:</p> <p><DHCP_Client_Table>58:8D:09:72:73:DA 192.168.15.100 on Computer-1;00:22:68:19:EF:83 192.168.15.101 on Computer-2;</DHCP_Client_Table></p>
<Option_66>	<p>Description—Method for specifying a TFTP server for remote configuration of the ATA</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Option 66 field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: None • 2: Remote TFTP Server • 3: Manual TFTP Server <p>Default—0</p> <p>Example—Remote TFTP server</p> <p><Option_66>2</Option_66></p>
<TFTP_IP>	<p>Description—IPv4 address of a TFTP server, if Option 66 is set to Manual</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, TFTP Server field</p> <p>Values—IPv4 address</p> <p>Default—0.0.0.0</p> <p>Example</p> <p><TFTP_IP>209.165.202.129</TFTP_IP></p>

Parameter	Details
<Option_67>	<p>Description—Provides a configuration/bootstrap filename to hosts that request this option</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Option 67 field</p> <p>Values—filename</p> <p>Default—null</p> <p>Example</p> <pre><Option_67>MyDirectory/MyFile.cfg</Option_67></pre>
<Option_159 >	<p>Description—Provides a configuration URL to hosts that request this option</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Option 159 field</p> <p>Values—URL</p> <p>Default—null</p> <p>Example</p> <pre><Option_159>http://MyDomain.com/MyDirectory/MyFile.cfg</Option_159></pre>
<Option_160 >	<p>Description—Provides a configuration URL to hosts that request this option</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Option 160 field</p> <p>Values—filename</p> <p>Default—null</p> <p>Example</p> <pre><Option_67>MyDirectory/MyFile.cfg</Option_67></pre>
<DNS_Proxy>	<p>Description—Enables or disables the DNS proxy, which relays DNS requests to the current public network DNS server for the proxy, and replies as a DNS resolver to the client device on the network</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, DNS Proxy field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example—DNS proxy enabled</p> <pre><DNS_Proxy>1</DNS_Proxy></pre>

Parameter	Details
<Starting_IP>	<p>Description—The first IPv4 address in the range of IPv4 addresses that are assigned by the DHCP server</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Starting IP address field</p> <p>Values—IPv4 address</p> <p>Default—192.168.15.100</p> <p>Example</p> <pre><Starting_IP>192.168.15.110</Starting_IP></pre>
<Max_DHCP_User>	<p>Description—The maximum number of devices that can receive DHCP addresses from the DHCP server</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Maximum DHCP Users field</p> <p>Values—number</p> <p>Default—50</p> <p>Example—10-device maximum</p> <pre><Max_DHCP_User>10</Max_DHCP_User></pre>
<Client_Lease_Time>	<p>Description—The number of minutes that a dynamically assigned IPv4 address can be in use, or “leased”</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Client Lease Time field</p> <p>Values—number. Enter the number of minutes. Enter 0 to represent 1 day. Enter 9999 to never expire.</p> <p>Default—0 (1 day)</p> <p>Example—No expiration</p> <pre><Client_Lease_Time>9999</Client_Lease_Time></pre>
<Static_DNS>	<p>Description—Defines a DNS server address that will be provided to DHCP clients. If DNS Proxy is enabled, clients will automatically be issued the Local IPv4 address to use for DNS.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Static DNS field</p> <p>Values—IPv4 address</p> <p>Default—0.0.0.0</p> <p>Example</p> <pre><Static_DNS>209.165.202.129</Static_DNS></pre>

Parameter	Details
<Default_Gateway>	<p>Description—Enter the IPv4 address of the default gateway to be used by the DHCP clients.</p> <p>User Interface—Network Setup > Basic Setup > IPv4 LAN Settings page, Default Gateway field</p> <p>Default—192.168.15.1</p> <p>Example</p> <pre><Default_Gateway>192.168.15.1</Default_Gateway></pre>

<DHCP_Server_Pool> Example: DHCP enabled with two DHCP reservations <router-configuration>

```
...
<DHCP_Server_Pool>
<Rule>
<DHCP_Server>1</DHCP_Server>
<Local_IP>192.168.15.1</Local_IP>
<Subnet_Mask>255.255.255.0</Subnet_Mask>
<DHCP_Client_Table>58:8D:09:72:73:DA 192.168.15.100 on Computer-1;00:22:68:19:EF:83
192.168.15.101 on Computer-2;</DHCP_Client_Table>
<TFTP_IP>0.0.0.0</TFTP_IP>
<Starting_IP>192.168.15.100</Starting_IP>
<Max_DHCP_User>50</Max_DHCP_User>
<Client_Lease_Time>0</Client_Lease_Time>
<Default_Gateway>192.168.15.1</Default_Gateway>
</Rule>
</DHCP_Server_Pool>
...
</router-configuration>
```

LAN_IP6_Setting Parameters

This section describes the parameters in the <LAN_IP6_Setting> section of the config.xml file.

TIP: You can click the <LAN_IP6_Setting> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
LAN_IP6_Address_Assign_Type	<p>Description—Method for IPv6 assignment to LAN device..</p> <p>User Interface—Network Setup > IPv6 LAN Settings page, Address Assign Type field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: SLACC • 1: DHCP6s <p>Default—0</p>

Parameter	Details
LAN_DHCP6_Delegation_Enable	<p>Description—Set enabled to support DHCPv6 delegation which support to obtain LAN prefix via DHCPv6 client</p> <p>User Interface—Network Setup > IPv6 LAN Settings page, DHCPv6 Delegation field.</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p>
LAN_IP6_Prefix	<p>Description—Manual LAN prefix, editable only when DHCP delegation is disabled.</p> <p>User Interface—Network Setup > IPv6 LAN Settings page, IPv6 Address Prefix field.</p> <p>Values—0-64</p> <p>Default—null</p>

WAN_VLAN_Setting Parameters

This section describes the parameters in the <WAN_VLAN_Setting> section of the config.xml file.

Parameter	Details
<WAN_VLAN_Enable>	<p>Description—Enables or disables a VLAN on your network</p> <p>User Interface—Network Setup > Advanced Settings > VLAN page, Enable VLAN field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—VLAN enabled</p> <pre><WAN_VLAN_Enable>1</WAN_VLAN_Enable></pre>

Parameter	Details
<WAN_VLAN_ID>	<p>Description—A number that identifies the VLAN</p> <p>User Interface—Network Setup > Advanced Settings > VLAN page, VLAN ID field</p> <p>Valid inputs—1~4094</p> <p>Default—1</p> <p>Example—VLAN ID 100</p> <pre><WAN_VALN_ID>100</WAN_VALN_ID></pre>

<WAN_VLAN_Setting> Example: VLAN Enabled with ID 10

```
<router-configuration>
...
<WAN_VLAN_Setting>
<WAN_VLAN_Enable>1</WAN_VLAN_Enable>
<WAN_VALN_ID>100</WAN_VALN_ID>
</WAN_VLAN_Setting>
...
</router-configuration>
```

CLDP_Setting Parameters

This section describes the parameters in the <CLDP_Setting> section of the config.xml file.

Parameter	Details
<CDP_ENABLE>	<p>Description—Enables or disables Cisco Discovery Protocol (CDP)</p> <p>User Interface—Network Setup > Advanced Settings > CDP & LLDP page, Enable CDP field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0 • 1 <p>0 means that the CDP is disabled. 1 means that the CDP is enabled.</p> <p>Default—1</p> <p>Example—CDP enabled</p> <pre><CDP_ENABLE>1</CDP_ENABLE></pre>

Parameter	Details
<LLDP_ENABLE>	<p>Description—Enables or disables Link Layer Discovery Protocol (LLDP)</p> <p>User Interface—Network Setup > Advanced Settings > CDP & LLDP page, Enable LLDP-MED field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0 • 1 <p>0 means that the LLDP is disabled. 1 means that the LLDP is enabled.</p> <p>Default—1</p> <p>Example—LLDP enabled</p> <pre><LLDP_ENABLE>1</LLDP_ENABLE></pre>
<LAYER2_LOGGING_ENABLE>	<p>Description—Enables Layer 2 logging, which is used by CDP and LLDP for debugging purposes</p> <p>User Interface—Network Setup > Advanced Settings > CDP & LLDP page, Layer 2 Logging field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—Layer 2 logging enabled</p> <pre><LAYER2_LOGGING_ENABLE>1</LAYER2_LOGGING_ENABLE></pre>

<CLDP_Setting> Example: CDP, LLDP, and Layer 2 logging enabled

```
<router-configuration>
...
<CLDP_Setting>
<CDP_ENABLE>1</CDP_ENABLE>
<LLDP_ENABLE>1</LLDP_ENABLE>
<LAYER2_LOGGING_ENABLE>1</LAYER2_LOGGING_ENABLE>
</CLDP_Setting>
...
</router-configuration>
```

Single_Port_Forwarding Parameters

This section describes the parameters in the <Single_Port_Forwarding> section of the config.xml file.

TIP: You can click the <Single_Port_Forwarding> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
Single_Port_Forwarding_Index	<p>Description—Index for single port forwarding. Should be listed in order with colon depending on the amount of entry added (Rule<index>). Index in order 0-9</p> <p>User Interface—Network Setup > Application > Port Forwarding > Add Entry > Port Forwarding Tupe page, Single Port Forwarding field</p> <p>Values:</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—null</p> <p>Example</p> <pre><Single_Port_Forwarding> <Single_Port_Forwarding_Index>0:1:2</Single_Port_Forwarding_Index> <Rule0>1:SNMP:br1:161:161:udp:192.168.15.30</Rule0> <Rule1>0:Finger:br1:79:79:tcp:192.168.15.30</Rule1> <Rule2>1:forward_rule:br1:25:27:both:192.168.15.15</Rule2> </Single_Port_Forwarding></pre>
Rule<index>	<p>Description—Forwards traffic for a specified port to the same or an alternative port on the target server in the LAN. <index> can be 0-9</p> <p>User Interface—Network Setup > Application > Port Forwarding > Add Entry > Port Forwarding Tupe page, Single Port Forwarding field.</p> <p>Format: <Enabled>:<Name>:<Interface>:<External Port>:<Internal Port>:<Protocol>:<Target server IP></p> <p>Values</p> <ul style="list-style-type: none"> • <Enabled>: 0-1 • <Name>: String • <Interface>: br1 • <External Port>: 1-65535 • <Internal Port>: 1-65535 • <Protocol>: tcp,udp,both • <Target server IP>: ipv4 address <p>Default—null</p> <p>Example</p> <pre><Rule0>1:SNMP:br1:161:161:udp:192.168.15.30</Rule0> <Rule1>0:Finger:br1:79:79:tcp:192.168.15.30</Rule1> <Rule2>1:forward_rule:br1:25:27:both:192.168.15.15</Rule2></pre>

Port_Range_Forwarding Parameters

This section describes the parameters in the <Port_Range_Forwarding> section of the config.xml file.

TIP: You can click the <Port_Range_Forwarding> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
Port_Range_Forwarding_Index	<p>Description—Index for port range forwarding. Should be listed in order with colon depending on the amount of entry added (Rule<index>).</p> <p>User Interface—Network Setup > Application > Port Forwarding > Add Entry > Port Forwarding Type page, Port Range Forwarding field</p> <p>Values: index in order: 0-9</p> <p>Default—Null</p> <p>Example</p> <pre><Port_Range_Forwarding> <Port_Range_Forwarding_Index>0:1</Port_Range_Forwarding_Index> <Rule0>1:Rule_0:br1:50:60:tcp:192.198.15.22</Rule0> <Rule1>0:Rule_1:br1:11:13:both:192.168.15.12</Rule1> </Port_Range_Forwarding></pre>
Rule<index>	<p>Description—Forwards traffic to a range of ports to the same ports on the target server in the LAN. <index> can be 0-9.</p> <p>User Interface—Network Setup > Application > Port Forwarding > Add Entry > Port Forwarding Type page, Port Range Forwarding field.</p> <p>Format: <Enabled>:<Name>:<Interface>:<Start Port>:<End Port>:<Protocol>:<Target server IP></p> <p>Values</p> <ul style="list-style-type: none"> • <Enabled>: 0-1 • <Name>: String • <Interface>: br1 • <Start Port>: 1-65535 • <End Port>: 1-65535 • <Protocol>: tcp,udp,both • <Target server IP>: ipv4 address <p>Default—null</p> <p>Example</p> <pre><Rule0>1:Rule_0:br1:50:60:tcp:192.198.15.22</Rule0> <Rule1>0:Rule_1:br1:11:13:both:192.168.15.12</Rule1></pre>

SNMP Parameters

This section describes the parameters in the <SNMP> section of the config.xml file.

Parameter	Details
<SNMP_Enabled>	<p>Description—Enables or disables SNMP</p> <p>User Interface—Administration > Management > SNMP page, SNMP section, Enabled and Disabled options</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—SNMP enabled <SNMP_Enabled>1</SNMP_Enabled></p>
<SNMP_Trusted_IP>	<p>Description—trusted v4 IP address that can access the ATA through SNMP</p> <p>User Interface—Administration > Management > SNMP page, SNMP section, Trusted IP field</p> <p>Valid inputs—IPv4 address and subnet mask in this order: 0.0.0.0/0.0.0.0</p> <p>Default—0.0.0.0/0.0.0.0 (Any IP address)</p> <p>Example <SNMP_Trusted_IP>209.165.202.129/255.255.255.0</SNMP_Trusted_IP></p>
SNMP_Trusted_IP6	<p>Description—trusted v4 IP address that can access the ATA through SNMP</p> <p>User Interface—Administration > SNMP page, Trusted IPv6 field</p> <p>Valid inputs—IPv6 address</p> <p>Default—::</p>
SNMP_Trusted_IP6_Prefix_Length	<p>Description—prefix of the trusted v6 IP that can access the ATA through SNMP</p> <p>User Interface—Administration > SNMP page, Trusted IPv6 field</p> <p>Valid inputs—0-128</p> <p>Default—0</p>

Parameter	Details
<Get_Community>	<p>Description—A community string for authentication for SNMP GET commands.</p> <p>User Interface—Administration > Management > SNMP page, SNMP section, Get/Trap Community field</p> <p>Valid inputs—string</p> <p>Default—public</p> <p>Example</p> <pre><Get_Community>MyGet</Get_Community></pre>
<Set_Community>	<p>Description—A community string for authentication for SNMP GET commands.</p> <p>User Interface—Administration > Management > SNMP page, SNMP section, Set Community field</p> <p>Valid inputs—string</p> <p>Default—private</p> <p>Example</p> <pre><Set_Community>MySet</Set_Community></pre>
<SNMPV3>	<p>User Interface—Administration > Management > SNMP page, SNMPV3 section, Enable and Disable fields</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—SNMPv3 enabled</p> <pre><SNMPV3>1</SNMPV3></pre>
<RW_User>	<p>Description—A username for SNMP authentication</p> <p>User Interface—Administration > Management > SNMP page, SNMPV3 section, R/W User field</p> <p>Valid inputs—username</p> <p>Default—v3rwuser</p> <p>Example</p> <pre><RW_User>MyUsername</RW_User></pre>

Parameter	Details
<Auth_Protocol>	<p>Description—SNMPv3 authentication protocol</p> <p>User Interface—Administration > Management > SNMP page, SNMPV3 section, Auth-Protocol field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • MD5 • SHA <p>Default—MD5</p> <p>Example—SHA enabled</p> <p><Auth_Protocol>SHA</Auth_Protocol></p>
<Auth_Password>	<p>Description—Password for SNMPv3 authentication</p> <p>User Interface—Administration > Management > SNMP page, Auth-Password field for SNMPv3</p> <p>Valid inputs—string</p> <p>Default—1111111111</p> <p>Example</p> <p><Auth_Password>MyPassword</Auth_Password></p>
<Privacy_Protocol>	<p>Description—Privacy authentication protocol for SNMPv3</p> <p>User Interface—Administration > Management > SNMP page, SNMPV3 section, privprotocol field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • None • DES <p>Default—DES</p> <p>Example—DES enabled</p> <p><Privacy_Protocol>DES</Privacy_Protocol></p>
<Privacy_Password>	<p>Description—Privacy authentication password for SNMPv3</p> <p>User Interface—Administration > Management > SNMP page, SNMPV3 section, Privacy Password field</p> <p>Valid inputs—string</p> <p>Default—1111111111</p> <p>Example</p> <p><Privacy_Password>MyPrivacyPassword</Privacy_Password></p>

Parameter	Details
<TRAP_IP_Address>	<p>Description—The IP Address of the SNMP manager or trap agent</p> <p>User Interface—Administration > Management > SNMP page, Trap Configuration section, IP Address field</p> <p>Valid inputs—IPv4 address</p> <p>Default—192.168.15.100</p> <p>Example</p> <pre><TRAP_IP_Address>209.165.202.129</TRAP_IP_Address></pre>
<TRAP_Port>	<p>Description—The SNMP trap port used by the SNMP manager or trap agent to receive the trap messages</p> <p>User Interface—Administration > Management > SNMP page, Trap Configuration section, Port field</p> <p>Valid inputs—162 or 1025~65535</p> <p>Default—162</p> <p>Example</p> <pre><TRAP_Port>162</TRAP_Port></pre>
<TRAP_SNMP_Version>	<p>Description—The SNMP version in use by the SNMP manager or trap agent</p> <p>User Interface—Administration > Management > SNMP page, Trap Configuration section, SNMP Version field</p> <p>Valid inputs—One of the SNMP version number listed below</p> <ul style="list-style-type: none"> • v1 • v2c • v3 <p>Default—v1</p> <p>Example</p> <pre><TRAP_SNMP_Version>v3</TRAP_SNMP_Version></pre>

<SNMP> Example 1: SNMP Enabled from Any IP Address

```
<router-configuration>
...
<SNMP>
<SNMP_Enabled>1</SNMP_Enabled>
<SNMP_Trusted_IP>0.0.0.0/0.0.0.0</SNMP_Trusted_IP>
<Get_Community>MyGet</Get_Community>
<Set_Community>MySet</Set_Community>
<TRAP_IP_Address>209.165.202.129</TRAP_IP_Address>
<TRAP_Port>162</TRAP_Port>
<TRAP_SNMP_Version>v3</TRAP_SNMP_Version>
</SNMP>
```

```
...
</router-configuration>
```

<SNMP> Example 2: SNMPv3 Enabled from Trusted IP Address

```
<router-configuration>
...
<SNMP>
<SNMP_Enabled>1</SNMP_Enabled>
<SNMP_Trusted_IP>209.165.202.129/255.255.255.0</SNMP_Trusted_IP>
<Get_Community>MyGet</Get_Community>
<Set_Community>MySet</Set_Community>
<SNMPV3>1</SNMPV3>
<RW_User>MyUsername</RW_User>
<Auth_Protocol>SHA</Auth_Protocol>
<Auth_Password>MyPassword</Auth_Password>
<Privacy_Protocol>DES</Privacy_Protocol>
<Privacy_Password>MyPrivacyPassword</Privacy_Password>
<TRAP_IP_Address>209.165.201.1</TRAP_IP_Address>
<TRAP_Port>162</TRAP_Port>
<TRAP_SNMP_Version>v3</TRAP_SNMP_Version>
</SNMP>
...
</router-configuration>
```

Time_Setup Parameters

Parameter	Details
<Time_Zone>	<p>Description—The time zone for the site where the ATA is in operation</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Time Zone field</p> <p>Valid inputs—number identifying the time zone. See Time Zone Settings</p> <p>Default—08 1 1</p> <p>Example—Germany</p> <p><Time_Zone>+01 2 2</Time_Zone></p>
<Auto_Adjust_Clock>	<p>Description—Enables or disables automatic time adjustments for daylight savings time</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Adjust Clock for Daylight Saving Changes field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example—Automatic Daylight Saving adjustment enabled</p> <p><Auto_Adjust_Clock>1</Auto_Adjust_Clock></p>

Parameter	Details
<Time_Server_Mode>	<p>Description—The method for specifying an NTP time server Time Server Address</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Time Server field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • manual • auto <p>Default—auto</p> <p>Example—Manual mode</p> <pre><Time_Server_Mode>manual</Time_Server_Mode></pre>
<Time_Server>	<p>Description—IPv4 address or domain name of an NTP server</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Time Server Address field</p> <p>Valid inputs—IPv4 address or domain name</p> <p>Default—0.ciscosb.pool.ntp.org</p> <p>Example—European pool</p> <pre><Time_Server>server 0.europe.pool.ntp.org </Time_Server></pre>
<Resync_Timer>	<p>Description—The interval, in seconds, at which the ATA resynchronizes with the NTP server</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Resync Timer field</p> <p>Valid inputs—number</p> <p>Default—3600</p> <p>Example</p> <pre><Resync_Timer>3600</Resync_Timer></pre>

Parameter	Details
<Auto_Recovery_System_Time>	<p>Description—When enabled, allows the ATA to automatically reconnect to the time server after a system reboot</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Auto Recovery After System Reboot field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—Auto Recovery enabled</p> <pre><Auto_Recovery_System_Time>1</Auto_Recovery_System_Time></pre>
<Time_Mode>	<p>Description—The method of specifying a time server</p> <p>User Interface—Network Setup > Basic Setup > Time Settings page, Time Server field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Manual • 1: Auto <p>Default—1</p> <p>Example—Automatic mode</p> <pre><Time_Mode>1</Time_Mode></pre>

<Time_Setup> Example: Germany Time Zone with Daylight Savings and Auto-Recovery Enabled

```
<router-configuration>
...
<Time_Setup>
<Time_Zone>+01 2 2</Time_Zone>
<Auto_Adjust_Clock>1</Auto_Adjust_Clock>
<Time_Server_Mode>auto</Time_Server_Mode>
<Time_Server>0.ciscosb.pool.ntp.org</Time_Server>
<Resync_Timer>3600</Resync_Timer>
<Auto_Recovery_System_Time>1</Auto_Recovery_System_Time>
<Time_Mode>1</Time_Mode>
</Time_Setup>
...
</router-configuration>
```

QoS_Bandwidth_Control Parameters

This section describes the parameters in the <QoS_Bandwidth_Control> section of the config.xml file.

WAN

All parameters in the <QoS_Bandwidth_Control> section are nested between <WAN> and </WAN>.

Parameter	Details
<QoS_Always_ON>	<p>Description—Determines whether QoS settings are enabled at all times or only when there is voice traffic</p> <p>User Interface—Network Setup > Application > QoS page, QoS Policy field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: On When Phone In Use • 1: Always On <p>Default—0</p> <p>Example—On when phone is in use</p> <pre><QoS_Always_ON>0</QoS_Always_ON></pre>
<Upstream_Bandwidth>	<p>Description—The maximum available upstream bandwidth, in kbps, as specified by the Internet Service Provider</p> <p>User Interface—Network Setup > Application > QoS page, Upstream Bandwidth field</p> <p>Valid inputs—number</p> <p>Default—10000</p> <p>Example</p> <pre><Upstream_Bandwidth>20000</Upstream_Bandwidth></pre>

<QoS_Bandwidth_Control> Example: QoS always on, maximum bandwidth of 20,000 kbps

```
<router-configuration>
...
<QoS_Bandwidth_Control>
<WAN>
<QoS_Always_ON>1</QoS_Always_ON>
<Upstream_Bandwidth>20000</Upstream_Bandwidth>
</WAN>
</QoS_Bandwidth_Control>
...
</router-configuration>
```

HTTP_Proxy Parameters

This section describes the parameters in the <HTTP_Proxy> section of the config.xml file.

Parameter	Details
<Proxy_Mode>	<p>Description—Specifies the HTTP proxy mode that the ATA uses, or disables the HTTP proxy feature.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Proxy Mode field.</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • Off • Auto • Manual <p>Default—Off</p> <p>Example—Auto proxy mode</p> <pre><Proxy_Mode>Auto</Proxy_Mode></pre>
<Use_Auto_Discovery__WPAD_>	<p>Description—Determines whether the ATA uses the Web Proxy Auto-Discovery (WPAD) protocol to retrieve a PAC file.</p> <p>If the parameter is set to No, you must configure the parameter <PAC_URL>.</p> <p>The parameter configuration takes effect only when the <Proxy_Mode> is set to Auto.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Use Auto Discovery field.</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • No • Yes <p>Default—Yes</p> <p>Example—The WPAD protocol is not used.</p> <pre><Use_Auto_Discovery__WPAD_>No</Use_Auto_Discovery__WPAD_></pre>
<PAC_URL>	<p>Description—The URL of a Proxy Auto-Configuration (PAC) file. This parameter configuration takes effect when the <Proxy_Mode> is set to Auto and <Use_Auto_Discovery__WPAD_> is set to No.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, PAC URL field.</p> <p>Valid inputs—URL</p> <p>Default—null</p> <p>Example</p> <pre>http://proxy.department.branch.example.com</pre>

Parameter	Details
<Proxy_Server_Requires_Authentication>	<p>Description—Select the option according to the actual behaviour of the proxy server. If the proxy server requires the user to provide authentication credentials, set it to Yes. Otherwise, select it to No.</p> <p>If the parameter is set to Yes, you must further configure the parameters <Proxy_Username> and <Proxy_Password>.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Proxy Server Requires Authentication field.</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • No • Yes <p>Default—No</p> <p>Example—The proxy server requires the user authentication.</p> <pre><Proxy_Server_Requires_Authentication>1</Proxy_Server_Requires_Authentication></pre>
<Proxy_Host>	<p>Description—Specifies an IP address or hostname of the proxy host server that the ATA uses.</p> <p>The parameter configuration is required if the <Proxy_Mode> is set to Manual.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Proxy Host field.</p> <p>Valid inputs—A valid IP address or hostname of the proxy host server</p> <p>Default—null</p> <p>Example</p> <pre><Proxy_Host>proxy.example.com</Proxy_Host></pre>
<Proxy_Port>	<p>Description—Specifies a port number of the proxy host server that the ATA uses.</p> <p>The parameter configuration is required if the <Proxy_Mode> is set to Manual.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Proxy Port field.</p> <p>Valid inputs—A valid port number from 2 to 65535.</p> <p>Default—3128</p> <p>Example</p> <pre><Proxy_Port>3128</Proxy_Port></pre>

Parameter	Details
<Proxy_Username>	<p>Description—Enter a username for the authentication purpose of the proxy server.</p> <p>The parameter configuration is required when <Proxy_Mode> is set to Manual and <Proxy_Server_Requires_Authentication> is set to Yes.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Username field.</p> <p>Valid inputs—string</p> <p>Default—null</p> <p>Example</p> <pre><Proxy_Username>Example</Proxy_Username></pre>
<Proxy_Password>	<p>Description—Enter the password of the specified username that the proxy server requires.</p> <p>The parameter configuration is required when <Proxy_Mode> is set to Manual and <Proxy_Server_Requires_Authentication> is set to Yes.</p> <p>User Interface—Administration > Network Setup > Applications > HTTP Proxy page, Password field.</p> <p>Valid inputs—string</p> <p>Default—null</p> <p>Example</p> <pre><Proxy_Password>Example</Proxy_Password></pre>

<HTTP_Proxy> Example: Auto proxy mode with WPAD enabled

```
<router-configuration>
...
<HTTP_Proxy>
<Proxy_Mode>Auto</Proxy_Mode>
<Use_Auto_Discovery__WPAD_>Yes</Use_Auto_Discovery__WPAD_>
</HTTP_Proxy>
...
</router-configuration>
```

<HTTP_Proxy> Example: Manual proxy mode with proxy authentication required

```
<router-configuration>
...
<HTTP_Proxy>
<Proxy_Mode>Manual</Proxy_Mode>
<Proxy_Host>proxy.example.com</Proxy_Host>
<Proxy_Host>3128</Proxy_Host>
<Proxy_Server_Requires_Authentication>Yes</Proxy_Server_Requires_Authentication>
<Proxy_Username>Username_Example</Proxy_Username>
<Proxy_Password>Password_Example</Proxy_Password>
</HTTP_Proxy>
...
</router-configuration>
```

Software_DMZ Parameters

This section describes the parameters in the <Software_DMZ> section of the config.xml file.

Rule1

All parameters in the <Software_DMZ> section are nested between <Rule1> and </Rule1>. Only one DMZ rule is allowed on this device.

Parameter	Details
<Status>	<p>Description—Enables or disables exposing a local device to the Internet for a special purpose service</p> <p>User Interface—Network Setup > Application > DMZ page, Status field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example—DMZ enabled</p> <pre><Status>1</Status></pre>
<Private_IP>	<p>Description—The local IPv4 address of the device that can be accessed through the DMZ</p> <p>User Interface—Network Setup > Application > DMZ page, Private IP field</p> <p>Valid inputs—IPv4 address</p> <p>Default—0.0.0.0</p> <p>Example</p> <pre><Private_IP>192.168.15.1</Private_IP></pre>
<Rule_Number>	<p>Description—A static setting used to define the DMZ rule</p> <p>User Interface—not applicable</p> <p>Valid inputs—1 (do not change this number)</p> <p>Default—1</p>

<Software_DMZ> Example: DMZ allowing Internet traffic to access

```
192.168.15.101
<router-configuration>
...
<Software_DMZ>
<Rule1>
<Status>1</Status>
```

```

<Private_IP>192.168.15.1</Private_IP>
</Rule1>
<Rule_Number>1</Rule_Number>
</Software_DMZ>
...
</router-configuration>

```

Bonjour_Enable

Parameter	Details
<Bonjour_Enable>	<p>Description—Enables or disables the Bonjour service discovery protocol, which may be required by network management systems that you use</p> <p>User Interface—Administration > Management > Bonjour page, Enabled and Disabled fields</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example—Bonjour enabled</p> <pre><Bonjour_Enable>1</Bonjour_Enable></pre>

Reset_Button_Enable



Note No other settings are nested below <Reset_Button_Enable>.

Parameter	Details
<Reset_Button_Enable>	<p>Description—Enables or disables the RESET button</p> <p>User Interface</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled (button) • 1: Enabled (button can be pressed for 1-2 seconds for reboot and 5-6 seconds for a factory reset) <p>Default—1</p> <p>Example—Button disabled</p> <pre><Reset_Button_Enable>0</Reset_Button_Enable></pre>

Router_Mode

Parameter	Details
<Router_Mode>	<p>Description—The operating mode of the router</p> <p>User Interface—Network Setup > Basic Setup > Network Service page, Networking Service field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Bridge • 1: NAT <p>Default—1</p> <p>Example—Bridge mode enabled</p> <p><Router_Mode>0<Router_Mode></p>

Monitor_WAN_Port_Only Parameters

This section describes the parameters in the <Monitor_WAN_Port_Only> section of the config.xml file.

TIP: You can click the <Monitor_WAN_Port_Only> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
Monitor_WAN_Port_Only	<p>Description—To monitor device link status base on wan port only. This configuration is only valid when <Router_Mode> is set to 0 (bridge).</p> <p>User Interface—Network Setup > Basic Setup > Network Service page, Monitor Network Drop on Internet Port only field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Off • 1: On <p>Default—0</p>

VPN_Passthrough

This section describes the parameters in the <VPN_Passthrough> section of the config.xml file.

Parameter	Details
<IPSec_Passthrough>	<p>Description—Enables or disables VPN passthrough for Internet Protocol Security (IPsec)</p> <p>User Interface—Network Setup > Advanced Settings > VPN Passthrough page, IPsec Passthrough field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example</p> <pre><IPSec_Passthrough>1</IPSec_Passthrough></pre>
<PPTP_Passthrough>	<p>Description—Enables or disables VPN passthrough for Point-to-Point Tunneling Protocol (PPTP)</p> <p>User Interface—Network Setup > Advanced Settings > VPN Passthrough page, PPTP Passthrough field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example</p> <pre><PPTP_Passthrough>1</PPTP_Passthrough></pre>
<L2TP_Passthrough>	<p>Description—Enables or disables VPN passthrough for Layer 2 Tunneling Protocol (L2TP)</p> <p>User Interface—Network Setup > Advanced Settings > VPN Passthrough page, L2TP Passthrough field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example</p> <pre><L2TP_Passthrough>1</L2TP_Passthrough></pre>

<VPN_Passthrough> Example: All passthrough options enabled

```
<router-configuration>
...
```

```

<VPN_Passthrough>
<IPSec_Passthrough>1</IPSec_Passthrough>
<PPTP_Passthrough>1</PPTP_Passthrough>
<L2TP_Passthrough>1</L2TP_Passthrough>
</VPN_Passthrough>
...
</router-configuration>

```

Web_Management

This section describes the parameters in the <Web_Management> section of the config.xml file.

Parameter	Details
<Web_Utility_Access_HTTP>	<p>Description—Enables or disables access to the web-based configuration utility via HTTP, from a computer on the LAN</p> <p>User Interface—Administration > Management > Web Access Management page, Web Utility Access field, HTTP option</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example</p> <pre><Web_Utility_Access_HTTP>1</Web_Utility_Access_HTTP></pre>
<Web_Utility_Access_HTTPS>	<p>Description—Enables or disables access to the web-based configuration utility via HTTPS, from a computer on the LAN</p> <p>User Interface—Administration > Management > Web Access Management page, Web Utility Access field, HTTPS option</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example</p> <pre><Web_Utility_Access_HTTPS>1</Web_Utility_Access_HTTPS></pre>

Parameter	Details
<Web_Remote_Management>	<p>Description—Enables or disables access to the web-based configuration utility through the WAN interface (INTERNET port)</p> <p>User Interface—Administration > Management > Web Access Management page, Remote Management field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example</p> <pre><Web_Remote_Management>1</Web_Remote_Management></pre>
<Remote_Web_Utility_Access>	<p>Description—Specifies the protocol that can be used to access the web-based configuration utility through the WAN interface (INTERNET port), when Remote Management is enabled</p> <p>User Interface—Administration > Management > Web Access Management page, Web Utility Access field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: HTTP • 1: HTTPS <p>Default—1</p> <p>Example</p> <pre><Remote_Web_Utility_Access>1</Remote_Web_Utility_Access></pre>
<Web_Remote_Upgrade>	<p>Description—Enables or disables upgrading the firmware from a computer on the WAN, when Remote Management is enabled</p> <p>User Interface—Administration > Management > Web Access Management page, Remote Upgrade field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example</p> <pre><Web_Remote_Upgrade>1</Web_Remote_Upgrade></pre>

Parameter	Details
<Allowed_Remote_IP_Type>	<p>Description—Specifies a method for identifying remote devices that are allowed access to the web-based configuration utility, when Remote Management is enabled</p> <p>User Interface—Administration > Management > Web Access Management page, Allowed Remote IPv4 Address field, Any IP Address option</p> <p>Valid inputs:</p> <ul style="list-style-type: none"> • 0: Specified IP Address • 1: Any IP Address <p>Default—1</p> <p>Example</p> <pre><Allowed_Remote_IP_Type>0</Allowed_Remote_IP_Type></pre>
<Allowed_Remote_IP_Address>	<p>Description—Specifies a remote IPv4 address that is allowed access to the web-based configuration utility, when Remote Management is enabled</p> <p>User Interface—Administration > Management > Web Access Management page, Allowed Remote IPv4 Address field, unlabeled text box</p> <p>Valid inputs—IPv4 address</p> <p>Default—0.0.0.0</p> <p>Example</p> <pre><Allowed_Remote_IP_Address>209.165.201.129</Allowed_Remote_IP_Address></pre>
<Remote_Management_Port>	<p>Description—Specifies the port to use for access to the web-based configuration utility through the WAN interface (INTERNET port)</p> <p>User Interface—Administration > Management > Web Access Management page, Remote Management Port field</p> <p>Valid inputs—port number</p> <p>Default—443</p> <p>Example</p> <pre><Remote_Management_Port>443</Remote_Management_Port></pre>

<Web_Management> Example: Remote Management and Remote Upgrade enabled

```
<router-configuration>
...
<Web_Management>
<Web_Utility_Access_HTTP>0</Web_Utility_Access_HTTP>
<Web_Utility_Access_HTTPS>1</Web_Utility_Access_HTTPS>
<Web_Remote_Management>1</Web_Remote_Management>
<Remote_Web_Utility_Access>1</Remote_Web_Utility_Access>
<Web_Remote_Upgrade>1</Web_Remote_Upgrade>
<Allowed_Remote_IP_Type>0</Allowed_Remote_IP_Type>
<Allowed_Remote_IP_Address>209.165.201.129 129</Allowed_Remote_IP_Address>
<Remote_Management_Port>443</Remote_Management_Port>
```



```

</Web_Management>
...
</router-configuration>

```

TR-069 Parameters

This section describes the parameters in the <TR_069> section of the config.xml file.

Parameter	Details
<TR_069_Status>	<p>Description—Enables or disables remote provisioning via TR-069 CPE WAN Management Protocol</p> <p>User Interface—Administration > Management > TR-069 page, Status field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p> <p>Example</p> <pre><TR_069_Status>1</TR_069_Status></pre>
<TR_069_ACS_URL>	<p>Description—The URL of the Auto-Configuration Server (ACS)</p> <p>User Interface—Administration > Management > TR-069 page, ACS URL field</p> <p>Valid inputs—Domain name or IP address, starting with http:// or https://, and optionally ending with a port number</p> <p>Default—null</p> <p>Example</p> <pre><TR_069_ACS_URL>http://ACS-example.com</TR_069_ACS_URL></pre>
<TR_069_ACS_Username>	<p>Description—The username for HTTP-based authentication to the ACS</p> <p>User Interface—Administration > Management > TR-069 page, ACS Username field</p> <p>Valid inputs—username</p> <p>Default—null</p> <p>Example</p> <pre><TR_069_ACS_Username>MyUsername</TR_069_ACS_Username></pre>

Parameter	Details
<TR_069_ACS_Password>	<p>Description—The password for HTTP-based authentication to the ACS</p> <p>User Interface—Administration > Management > TR-069 page, ACS Password field</p> <p>Valid inputs—password</p> <p>Default—commented out: <!-- <TR_069_ACS_Password></TR_069_ACS_Password>--></p> <p>Example</p> <pre><TR_069_ACS_Password>MyACSPassword</TR_069_ACS_Password></pre>
<TR_069_Connection_Request_URL>	<p>Description—This field will be autofilled and does not need to be entered manually</p> <p>User Interface—Administration > Management > TR-069 page, Connection Request URL field</p> <p>Valid inputs—URL</p> <p>Default—null</p> <p>Example—not applicable, value is autofilled</p>
<TR_069_Connection_Request_Username>	<p>Description—This field will be autofilled and does not need to be entered manually</p> <p>User Interface—Administration > Management > TR-069 page, Connection Request Username field</p> <p>Valid inputs—username</p> <p>Default—null</p> <p>Example—not applicable, value is autofilled</p>
<TR_069_Connection_Request_Password>	<p>Description—This field will be autofilled and does not need to be entered manually</p> <p>User Interface—Administration > Management > TR-069 page, Connection Request Password field</p> <p>Valid inputs—password</p> <p>Default—commented out, <!--<TR_069_Connection_Request_Password></TR_069_Connection_Request_Password>--></p> <p>Example</p> <pre><TR_069_Connection_Request_Password>MyPassword</TR_069_Connection_Request_Password></pre>

Parameter	Details
<TR_069_Periodic_Inform_Interval>	<p>Description—When Periodic Information is enabled, the duration, in seconds, between CPE attempts to connect to the ACS</p> <p>User Interface—Administration > Management > TR-069 page, Periodic Inform Interval field</p> <p>Valid inputs—number</p> <p>Default—86400</p> <p>Example—Interval of 36000 seconds (10 minutes)</p> <p><TR_069_Periodic_Inform_Interval>36000</TR_069_Periodic_Inform_Interval></p>
<TR_069_Periodic_Inform_Enable>	<p>Description—Enables or disables CPE connection requests to the ACS</p> <p>User Interface—Administration > Management > TR-069 page, Periodic Inform Enable field</p> <p>Valid inputs—</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—1</p> <p>Example—Periodic Inform enabled</p> <p><TR_069_Periodic_Inform_Enable>1</TR_069_Periodic_Inform_Enable></p>

Log_Configuration Parameters

This section describes the parameters in the <Log_Configuration> section of the config.xml file.

Parameter	Details
<Log_Module>	<p>Description—Value that indicates the debug flag of modules:</p> <ul style="list-style-type: none"> • 0: Default • 1: Preset • 2: Telephony • 3: SIP • 4: UI • 5: Network • 6: Media • 7: System • 8: Web • 9: NTP • 10: CDP/LLDP • 11: Security • 12: CSSD_RTP • 13: CSSD_FAX • 14: CSSD_ANY <p>User Interface—Administration > Debug Log Module page, Debug Log Module field</p> <p>Valid inputs—0-14</p> <p>Default—0</p>
<RAM_Log_Size>	<p>Description—The maximum size of the log file in kilobytes</p> <p>User Interface—Administration > Debug Log Setting page, Debug Log Size field</p> <p>Valid inputs—number from 128~1024</p> <p>Default—200</p> <p>Example</p> <pre><RAM_Log_Size>200</RAM_Log_Size></pre>
Syslog_Server_IP	<p>Description—IPv4 address of debug log server</p> <p>User Interface—Administration > Debug Log Setting page, Pv4 Address field</p> <p>Valid inputs—Valid IPv4 address format</p> <p>Default—null</p>

Parameter	Details
Syslog_Server_IP6	<p>Description—IPv6 address of debug log server</p> <p>User Interface—Administration > Debug Log Setting page, Pv6 Address field</p> <p>Valid inputs—Valid IPv6 address format</p> <p>Default—null</p>
Syslog_Server_Port	<p>Description—debug log server port</p> <p>User Interface—Administration > Debug Log Setting page, Port field</p> <p>Valid inputs—0-65535</p> <p>Default—514</p>
Event_Log_Server	<p>Description—Address of event log server, supports IPv4, IPv6, and FQDN</p> <p>User Interface—Administration > Debug Log Setting page, Address field</p> <p>Valid inputs—Valid IPv4, IPv6, or FQDN address format. Maximum length is 128 characters</p> <p>Default—null</p>
Event_Log_Port	<p>Description—Port of event log server</p> <p>User Interface—Administration > Debug Log Setting page, Port field</p> <p>Valid inputs—0-65535</p> <p>Default—514</p>
Event_Log_Flag	<p>Description—An bitwise value to turn on/off report of each event category (<DEV>: 1, <SYS>: 2 <CFG>: 4, <REG>: 8)</p> <p>User Interface—Administration > Debug Log Setting page, Flag field</p> <p>Valid inputs—0-65535</p> <p>The available options are:</p> <ul style="list-style-type: none"> • 0: Disable • 1: DEV • 2: SYS • 4: CFG • 8: REG • 15: DEV+SYS+CFG+REG <p>Default—15</p>

Parameter	Details
PRT_Upload_Url	<p>Description—Address of PRT upload server</p> <p>User Interface—Administration > Debug Log Setting page, PRT Upload URL field</p> <p>Valid inputs—Valid URL format. Maximum length is 256 characters.</p> <p>Default—null</p>
PRT_Upload_Method	<p>Description—HTTP method to upload PRT</p> <p>User Interface—Administration > Debug Log Setting page, Debug Log Size field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: POST • 1: PUT) <p>Default—0</p>
PRT_Max_Timer	<p>Description—Value in minutes to specify interval of periodical PRT report.</p> <p>User Interface—Administration > Debug Log Setting page, PRT Max Timer field</p> <p>Valid inputs</p> <ul style="list-style-type: none"> • 0: Disable • 15-1440 <p>Default—0</p>

Web_Login_Admin_Name

Parameter	Details
<Web_Login_Admin_Name>	<p>Description—The username for the administrator login, which has full read-write access to all parameters</p> <p>User Interface—Administration > Management > User List page, Username field</p> <p>Valid inputs—username</p> <p>Default—admin</p>

Web_Login_Admin_Password

Parameter	Details
<Web_Login_Admin_Password>	<p>Description—The password for the administrator login</p> <p>User Interface—Administration > Management > User List page</p> <p>Valid inputs—password (the minimum length of the characters is 8)</p> <p>Default—commented out <!--<Web_Login_Admin_Password></Web_Login_Admin_Password>--></p> <p>Example <Web_Login_Admin_Password>MyPassword</Web_Login_Admin_Password></p>

Web_Login_Guest_Name

Parameter	Details
<Web_Login_Guest_Name>	<p>Description—The username for the guest login, which has limited access to view or change parameters</p> <p>User Interface—Administration > Management > User List page</p> <p>Valid inputs—username</p> <p>Default—cisco</p> <p>Example <Web_Login_Guest_Name>MyUsername</Web_Login_Guest_Name></p>

Web_Login_Guest_Password

Parameter	Details
<Web_Login_Guest_Password>	<p>User Interface—Administration > Management > User List Page</p> <p>Valid inputs—password (the minimum length of the characters is 8)</p> <p>Default—commented out, <!--<Web_Login_Guest_Password></Web_Login_Guest_Password>--></p> <p>Example— <Web_Login_Guest_Password>MyPassword</Web_Login_Guest_Password></p>

SSH Parameters

This section describes the parameters in the <SSH> section of the config.xml file.

TIP: You can click the <SSH> heading in the XML file to expand or collapse the nested parameters in this section.

Parameter	Details
SSH_ACCESS	<p>Description—Set enabled to allow access to SSH service.</p> <p>User Interface—Administration > SSH page, Access field</p> <p>Values</p> <ul style="list-style-type: none"> • 0: Disabled • 1: Enabled <p>Default—0</p>
SSH_User_ID	<p>Description—User name of SSH</p> <p>User Interface—Administration > SSH page, User Name field</p> <p>Values—0-50</p> <p>Default—null</p>
SSH_Password	<p>Description—Password of SSH.</p> <p>User Interface—Administration > SSH page, Password field</p> <p>Values—0-50</p> <p>Default—null</p>