



## New and Changed BNG Features

This table summarizes the new and changed feature information for the *Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Configuration Guide*, and tells you where they are documented.

- [BNG Features Added or Modified in IOS XR Release 6.2.x, on page 1](#)

### BNG Features Added or Modified in IOS XR Release 6.2.x

Feature	Description	Changed in Release	Where Documented
BNG support on the Cisco ASR 9000 Series 24-Port and 48-Port Dual-Rate 10GE/1GE Line Cards	This feature was introduced.	Release 6.2.2	<i>Broadband Network Gateway Overview</i> chapter: <a href="#">Broadband Network Gateway Overview</a>
BNG Geo Redundancy with Satellite	This feature was introduced.	Release 6.2.2	<i>BNG Geo Redundancy</i> chapter: <a href="#">BNG Geo Redundancy with Satellite</a>  For commands, see the <i>Subscriber and Session Redundancy Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i> .

Feature	Description	Changed in Release	Where Documented
Configurable DHCPv6 Option 17	This feature was introduced.	Release 6.2.1	<p><i>Establishing Subscriber Sessions</i> chapter:</p> <p><a href="#">Configurable DHCPv6 Option 17</a></p> <p>See the <i>BNG DHCP Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
Unconditional Proxy ARP Response	This feature was introduced.	Release 6.2.1	<p><i>Establishing Subscriber Sessions</i> chapter:</p> <p><a href="#">Unconditional Proxy ARP Response</a></p> <p>See the <i>Subscriber and Session Redundancy Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
IGMP QoS Correlation for IPoE Subscribers	IGMP QoS Correlation feature was extended to IPoE subscribers.	Release 6.2.1	<p><i>Configuring Subscriber Features</i> chapter:</p> <p><a href="#">IGMP QoS Correlation for IPoE Subscribers</a></p> <p>See the <i>Subscriber and Session Redundancy Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>

Feature	Description	Changed in Release	Where Documented
DHCP Soft Pool Migration	This feature was introduced.	Release 6.2.1	<p><i>Establishing Subscriber Sessions</i> chapter:</p> <p><a href="#">DHCP Soft Pool Migration</a></p> <p>See the <i>Address Pool Service Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
SNMP Lawful Intercept Using Circuit-Id	This feature was introduced.	Release 6.2.1	<p><i>Configuring Subscriber Features</i> chapter:</p> <p><a href="#">SNMP Lawful Intercept Using Circuit-Id</a></p>
Multiple Class Support for Ingress Policing for Subscribers	This feature was introduced.	Release 6.2.1	<p><i>Deploying the Quality of Service (QoS)</i> chapter:</p> <p><a href="#">Multiple Class Support for Ingress Policing for Subscribers</a></p> <p>See the <i>QoS Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>

Feature	Description	Changed in Release	Where Documented
Controlling Subscriber Plans Using Protocol Options	This feature was introduced.	Release 6.2.1	<p><i>Configuring Subscriber Features</i> chapter:</p> <p><a href="#">Controlling Subscriber Plans Using Protocol Options</a></p> <p>See the <i>Subscriber and Session Redundancy Commands</i> chapter and <i>Control Policy Commands</i> in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
New MAC Address Format for RADIUS User-name Attribute	A new MAC address format was introduced for RADIUS User-name Attribute.	Release 6.2.1	<p><i>Configuring Authentication, Authorization, and Accounting Functions</i> chapter:</p> <p><a href="#">Creating Attributes of Specific Format</a></p> <p>See the <i>BNG AAA Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>

Feature	Description	Changed in Release	Where Documented
Group-based Grand Parent Shaping	This feature was introduced.	Release 6.2.1	<p><i>Deploying the Quality of Service (QoS)</i> chapter:</p> <p><a href="#">Group-based Grandparent Shaping</a></p> <p>See the <i>QoS Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
PPP Class-based DHCPv6 Mode Selection	This feature was introduced.	Release 6.2.1	<p><i>Establishing Subscriber Sessions</i> chapter:</p> <p><a href="#">PPP Class-based DHCPv6 Mode Selection</a></p> <p>See the <i>BNG DHCP Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
Global PPPoE BBA-Group	This feature was introduced.	Release 6.2.1	<p><i>Establishing Subscriber Sessions</i> chapter:</p> <p><a href="#">PPPoE Session Limit</a></p> <p>See the <i>PPPoE Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>

Feature	Description	Changed in Release	Where Documented
Geo Redundancy using SERG for IPv6 ND Clients	This feature was introduced.	Release 6.2.1	<p><i>BNG Geo Redundancy</i> chapter:</p> <p><a href="#">Configuring and Verifying Session Redundancy for IPv6 ND Clients</a></p> <p>See the <i>Subscriber and Session Redundancy Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
Geo Redundancy using SERG for DHCPv6 Clients	This feature was introduced.	Release 6.2.1	<p><i>BNG Geo Redundancy</i> chapter:</p> <p><a href="#">Configuring and Verifying Session Redundancy for DHCPv6 Clients</a></p> <p>See the <i>Subscriber and Session Redundancy Commands</i> chapter in <i>Cisco ASR 9000 Series Aggregation Services Router Broadband Network Gateway Command Reference</i>, for information on the commands related to this feature.</p>
Local VPDN for LAC	This feature was introduced.	Release 6.2.1	<p><i>Establishing Subscriber Sessions</i> chapter:</p> <p><a href="#">Local VPDN RADIUS Enhancement</a></p>