



**Juniper Networks
IMS AAA Server**

Release Notes

*Release 1.0
December 2007*

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Revision History

Date	Description
12 December 2007	Initial product release.

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Release Notes

These release notes accompany Release 1.0 of the IMS AAA Server software. Before you install or use your new software, read these release notes in their entirety, especially the “Known Problems and Limitations” and “Known Behavior” sections.

If the information in these release notes differs from the information found in the product documentation, follow the release notes.

You can find release notes in Adobe Acrobat (PDF) format on the Juniper Networks Technical Publications Web page, which is located at <http://www.juniper.net/techpubs>.

Known Behavior

This section briefly describes IMS AAA Server behavior and related issues. In some cases the behavior differs from non-IMS AAA Server implementations; in others the behavior is included to emphasize how the IMS AAA Server works.

- The IMS AAA Server does not initiate subscriber de-registration in the HSS (Home Subscriber Server). Subscriber de-registration is performed when the IMS AAA Server receives an HSS Registration-Termination-Request.
- Routing policy download requests are not sent over the Wd reference point (see TS 29.234 9.3.1). These requests are received by the AAA Proxy, and it is 3GPP AAA Proxy’s responsibility to locate the WAG (WLAN Access Gateway) responsible for serving the subscriber.
- The IMS AAA Server is capable of serving RADIUS requests with a Service-Type value of "Authorize only". This is done for compatibility with RADIUS CoA (Change of Authorization) functionality.
- An STR (Session-Termination-Request) received without a 3GPP-WLAN-APN-Id attribute causes all authorizations for the given Diameter Session-Id to be terminated.
- An ASR (Abort-Session-Request) received without a 3GPP-WLAN-APN-Id attribute causes all authorizations for the given Diameter Session-ID to be aborted.
- RADIUS CoA and DM (Disconnect Messages) affect all sessions for the subscriber specified in User-Name attribute.

- The IMS AAA Server sends an STR to the WAG and expects an ASR to be returned from the WAG contrary to TS 29.234 which specifies ASR from AAA Server/Proxy to the WAG and STR from the WAG to AAA Server/Proxy. This has been implemented to comply with the Diameter Base Protocol as described in section 9.2 of TS 29.234 which states: “the 3GPP AAA Server or Proxy shall act as the NAS client and the WAG as the Diameter Server”.
- The Diameter REDIRECT INDICATION is supported only over the Wx and Dw reference points. A Diameter REDIRECT INDICATION in an AA-Answer message, received by the AAA Proxy from a AAA Server over the Wd reference point, is returned to the client without attempting to forward the request to the Redirect-Host. This ensures that only routing rules configured by a system administrator are enforced.
- A Diameter Redirect-Host-Usage value included in an MA-Answer (Multimedia-Authentication-Answer) message, and received over either the Wx or Dw reference points is ignored. The value is assumed to be DONT_CACHE.

Known Problems and Limitations

The following issues have been identified in the IMS AAA Server Release 1.0 software.

- A Diameter Peer lookup based on the Origin-Host of an incoming connection is case-sensitive.
- Diameter statistics visible in the IMS AAA Server Administrator for Diameter Result-Code attribute value classes: Permanent Failures, Transient Failures and Protocol Errors, are updated based on Diameter Result-Code attribute values only, and not for Diameter Experimental-Result-Code attribute values. However, the corresponding SNMP traps are generated for both Diameter Result-Code and Experimental-Result-Code attribute values.
- Downstream RADIUS Dynamic Authorization clients are treated in the same manner as Upstream RADIUS Authentication and Accounting clients. It is possible for Downstream RADIUS Dynamic Authorization clients to send access and accounting requests, and conversely it is possible for Upstream RADIUS Authentication and Accounting clients to send CoA/DM (Change of Authorization/Disconnect Messages) requests.
- The following statistical items are always reported as zero:

MIB	MIB Object	SNMP OID	UI ^a
jnx-diameter-base-protocol.mib	jnxDbpLocalResetTime	(.1.3.6.1.4.1.2636.8.1.2.1.1.2.4)	Yes
jnx-diameter-base-protocol.mib	jnxDbpPerPeerStatsAccsNotRecorded	(.1.3.6.1.4.1.2636.8.1.2.1.1.4.1.1.39)	No
jnx-diameter-base-protocol.mib	jnxDbpPerPeerStatsAccRetrans	(.1.3.6.1.4.1.2636.8.1.2.1.1.4.1.1.40)	No
jnx-diameter-base-protocol.mib	jnxDbpPerPeerStatsTotalRetrans	(.1.3.6.1.4.1.2636.8.1.2.1.1.4.1.1.41)	No
jnx-diameter-base-protocol.mib	jnxDbpPerPeerStatsEToEDupMessages	(.1.3.6.1.4.1.2636.8.1.2.1.1.4.1.1.45)	No
jnx-diameter-base-protocol.mib	jnxDbpRealmMessageRouteAccRetrans	(.1.3.6.1.4.1.2636.8.1.2.1.1.6.1.1.22)	No

MIB	MIB Object	SNMP OID	UI ^a
jnx-diameter-base-protocol.mib	jnxDbpRealmMessageRouteAccDupReqsts	(.1.3.6.1.4.1.2636.8.1.2.1.1.6.1.1.23)	No
jnx-diameter-base-protocol.mib	jnxDbpRealmMessageRouteReqstsDrop	(.1.3.6.1.4.1.2636.8.1.2.1.1.6.1.1.25)	No
RFC4668.mib	radiusAuthClientInvalidServerAddresses	(.1.3.6.1.2.1.67.1.2.1.1.1)	Yes
RFC4668.mib	radiusAuthClientRoundTripTime	(.1.3.6.1.2.1.67.1.2.1.1.3.1.4)	Yes
RFC4668.mib	radiusAuthClientCounterDiscontinuity	(.1.3.6.1.2.1.67.1.2.1.1.4.1.17)	No
RFC4669.mib	radiusAuthServResetTime	(.1.3.6.1.2.1.67.1.1.1.1.3)	Yes
RFC4669.mib	radiusAuthServCounterDiscontinuity	(.1.3.6.1.2.1.67.1.1.1.1.16.1.14)	No
RFC4670.mib	radiusAccClientInvalidServerAddresses	(.1.3.6.1.2.1.67.2.2.1.1.1)	Yes
RFC4670.mib	radiusAccClientRoundTripTime	(.1.3.6.1.2.1.67.2.2.1.1.3.1.4)	Yes
RFC4670.mib	radiusAccClientCounterDiscontinuity	(.1.3.6.1.2.1.67.2.2.1.1.4.1.15)	No
RFC4671.mib	radiusAccServerCounterDiscontinuity	(.1.3.6.1.2.1.67.2.1.1.1.15.1.13)	No
jnx-diameter-nas-application.mib	jnxDiameterNasHostTotalSessions	(.1.3.6.1.4.1.2636.8.1.3.1.1.3.1)	No
jnx-diameter-nas-application.mib	jnxDiameterNasHostTotalActiveSessions	(.1.3.6.1.4.1.2636.8.1.3.1.1.3.2)	No
jnx-diameter-nas-application.mib	jnxDiameterPerPeerActiveSessionTable	(.1.3.6.1.4.1.2636.8.1.3.1.1.1.2)	No
jnx-diameter-nas-application.mib	jnxDiameterHistorySessionTable	(.1.3.6.1.4.1.2636.8.1.3.1.1.1.3)	No

a. IMS AAA Server Administrator

List of Technical Publications

The documentation for IMS AAA Server consists of the following manuals, which can be downloaded from the Juniper Networks Technical Publications Web page located at http://www.juniper.net/techpubs/software/aaa_802/.

- Administration Guide—Describes how to install, configure and administer the IMS AAA Server and Administrator software.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the IMS AAA Server documentation. You can send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at <http://www.juniper.net/techpubs/docbug/docbugreport.html>. If you are using email, please be sure to include the following information with your comments:

- Documentation name
- Documentation part number
- Software release version
- Page number

Contacting Technical Support

For technical support, contact Juniper Networks at support@juniper.net, or at 1-888-314-JTAC (in the United States) or 408-745-9500 (outside the United States).

Check our website (<http://www.juniper.net>) for additional information and technical notes.

When you call technical support, please have the following at hand:

- Your IMS AAA Server edition and release number (for example, IMS AAA Server Release 1.0).
- Information about the server configuration and operating system, including any OS patches that have been applied.
- For licensed products under a current maintenance agreement, your license or support contract number.
- Question or description of the problem, with as much detail as possible.
- Any documentation that may help in resolving the problem, such as error messages, memory dumps, compiler listings, and error logs.