

AAA Engineering Rules

This section provides AAA engineering rules and guidelines that must be considered prior to configuring the system for AAA functionality.

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AAA Interface Rules

The following engineering rules apply to the AAA interface including RADIUS and Diameter:

- AAA interfaces are specified by assigning the IP address of a logical interface within a specific context as the RADIUS NAS IP Address (RFC-2865 and RFC-2866) within the same context. This is done using the **radius attribute nas-ip-address** command in the context configuration mode.
- AAA interfaces in support of data services can be configured within any context.

  Typically it exists in the:

  - Ingress context for PDSN and ASNGW services
  - Egress context for GGSN services

- A AAA interface is selected in the following order:
  - NAI-based selection
  - Default AAA context
  - Last-resort AAA context
  - If all else fails defaults to the Ingress Context
- AAA servers can be configured with "primary" and "backup" servers for any context.
- Authentication and Accounting servers can be configured individually per context.
- Multiple AAA contexts can be configured to support different accounting and authentication servers based on the domain where that the subscriber belongs.
- AAA server group provides AAA functionality to the each subscriber separately with in the same context.
- AAA server group for AAA functionality can be configured with following limits:

- A total of 800 AAA server groups (including "default" server group) are available per context or system.
- A maximum number of authentication/accounting servers per AAA server group is 128.
- A maximum of 1600 servers can be configured in a context or a system, regardless of the number of server groups, with any combination for authentication and/or accounting.
- A maximum of 800 NAS-IP addresses/NAS identifier (1 primary and 1 secondary per server group) can be configured per context.
- The maximum attribute size in Diameter-EAP-Answer (DEA) message is 3400 bytes.