



# Encoding Destination-Host AVP in Redirected Requests

This chapter provides the implementation details to include the Destination-Host AVP in Diameter Redirected requested messages on S6b, SWm and STa interfaces.

This chapter discusses the following topics for this feature:

- [Feature Description, on page 1](#)
- [Configuring Destination-Host AVP in Redirected Request, on page 2](#)

## Feature Description



**Note** This feature is applicable to 18.4.3 and later releases.

When an application receives the Result-Code 3006 -DIAMETER\_REDIRECT\_INDICATION from the AAA server, the Diameter request message is forwarded to the Redirect-Host specified in the server's response. The message gets routed properly in case the Diameter host is directly connected to the AAA server. If there is a DRA between P-GW/ePDG and AAA server, the message goes into a loop as DRA always routes the packet to the AAA server which had redirected the message. To overcome this problem, the Destination-Host AVP should be included in the redirected messages. This functionality is supported by extending the existing CLI command "**destination-host-avp**" to include "**redirected-request**" as an optional configuration.

This option "**redirected-request**" encodes Destination-Host AVP in any type of Diameter redirected messages. Since any redirected request is considered as retried request, if the option "**retried-request**" is used, by default Update (Interims) or Terminate (Stop) redirected-request will be encoded with Destination-Host AVP without the "**redirected-request**" option being configured. The reason to configure "**redirected-request**" as part of "**retried-request**" option is, in case of Initial-Retried request the Destination-Host AVP is not encoded if "**retried-request**" option alone is configured. To enable encoding Destination-Host AVP for Initial-Retried request, "**redirected-request**" is supported as an extension to "**retried-request**" as well.

In releases prior to 18, the Destination-Host AVP was encoded in the redirected message only if the original request included Destination-Host AVP. In release 18 and beyond, the encoding of Destination-Host AVP in redirected message is based on the new configurable option **redirected-request** in "**destination-host-avp**" CLI command. If the CLI command is enabled, Destination-Host AVP will be included in any type of Diameter redirected messages.

## Limitations

As per the current implementation, it is not possible to send retried messages to a different host using the same peer. This behavior is applicable for normal retry and failure-handling scenarios.

## Standards Compliance

This feature is implemented to be compliant with 3GPP TS 29.273 specification.

## Configuring Destination-Host AVP in Redirected Request

This section provides information on the commands used to include the Destination-Host AVP in the redirected request messages.

## Encoding Destination-Host AVP in Redirected Requests

Use the following configuration commands to include the Destination-Host AVP in the redirected request messages on ePDG, P-GW and SaMOG sent over the respective authentication interfaces (SWm, S6b and STa).

```
configure
  context context_name
    diameter endpoint endpoint_name
      destination-host-avp { always | initial-request [
redirected-request ] | retried-request [ redirected-request ] |
session-binding [ redirected-request ] }
      default destination-host-avp
    end
```

Notes:

- **redirected-request**: Encodes the Destination-Host AVP in any redirected request message.
- **always**: Encodes the Destination-Host AVP in all types of request messages.
- **initial-request**: Encodes the Destination-Host AVP in initial request but not in retried request.
- **retried-request**: Encodes the Destination-Host AVP in retried request but not in initial request.
- **session-binding**: Encodes the Destination-Host AVP after the Diameter session is bound with a host.