IMS Sh Service Configuration Mode Commands

PDIF to communicate with the HSS server. HSS server is used for MAC address validation in the IKEv2 exchanges to set up SAs and for storing part of the user profile. SCM to communicate with the HSS server. HSS server is used for retrieval and update of call feature parameters and call restriction data.

The IMS Sh Interface Configuration Mode is used to configure various Diameter parameters in order for:

- Exec > Global Configuration > Context Configuration > IMS Sh Interface Configuration
- configure > context context_name > ims-sh-service service_name

Entering the above command sequence results in the following prompt:

```
(context_name) host_name(config-ims-sh-service)#
```

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

- diameter, on page 1
- end, on page 2
- exit, on page 3
- failure-handling, on page 3
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**diameter**

This command configures Diameter parameters.

**Product**

- PDIF
- SCM

**Privilege**

Administrator

**Command Modes**

- Exec > Global Configuration > Context Configuration > IMS Sh Interface Configuration
- configure > context context_name > ims-sh-service service_name

Entering the above command sequence results in the following prompt:
Syntax Description

diameter { dictionary { custom1 | standard | endpoint string } 
default diameter { dictionary | endpoint } 
no diameter endpoint

no
Removes previously configured endpoint.

default
Configures parameters to the default value.

dictionary
Specifies the dictionary to use.
  • custom1: A custom dictionary
  • standard: The standard dictionary

Important
SCM uses only the standard dictionary.

endpoint string
Selects an endpoint to use in the configuration.
string must be the endpoint name, and must be an alpha and/or numeric string of 1 through 63 characters in length.

Usage Guidelines
The Diameter endpoint contains information on the peer names and IP addresses and port, and the local IP address to use for Diameter.
You can have more than one Diameter endpoint configured on the chassis and the ims-sh-service needs to know which Diameter endpoint to use. This command is to select the appropriate Diameter endpoint, even if only one has been configured.

Example
The following example selects a diameter endpoint diam1:

diameter endpoint diam1

end
Exits the current mode and returns to the Exec Mode.

Product
All
exit

Exits the current mode and returns to the parent configuration mode.

failure-handling

This command configures the action to take in the event of an HSS server request failure.

Syntax Description

[ default ] failure-handling { profile-update-request | user-data-request } { { diameter-result-code result_code [ to result_code ] } | timeout } action { continue | retry-and-terminate | terminate } }

default
Resets configuration for the specified keyword to the default setting.

profile-update-request
Configures failure-handling as a result of a profile update request error.

user-data-request
Configures failure-handling as a result of a user data request.
diameter-result-code result_code [ to result_code ]

The Result-Code data field contains a space representing errors. Diameter provides the following classes of errors, all identified by the thousands digit in the decimal notation:

- 3xxx (Protocol Errors)
- 4xxx (Transient Failures)
- 5xxx (Permanent Failure)

result_code specifies either a result code value (diameter-result-code 3001) or a range of result code values (diameter-result-code 3000 to 9999) to which the failure-handling applies.

action

Configures the action to take depending on the diameter-result-code:

- Continue the session
- Retry and then terminate
- Terminate the session

request-timeout action

Configures the action to take as a result of a request timeout error:

- Continue the session
- Retry and then terminate
- Terminate the session

Usage Guidelines

Configures all failure-handling parameters.

Example

The following command configures profile-update-request failure-handling using a result-code configuration with the terminate session option:

failure-handling profile-update-request diameter-result-code 3005 to 3600 action terminate

request

Configures application request timeout.

Product

PDIF
SCM

Privilege

Administrator
Command Modes
Exec > Global Configuration > Context Configuration > IMS Sh Interface Configuration

configure > context context_name > ims-sh-service service_name

Entering the above command sequence results in the following prompt:

[context_name]host_name(config-ims-sh-service)#

Syntax Description
request timeout secs
[ no | default ] request timeout

no
Disables a configured timeout request.

default
Default: 300 seconds
Resets configuration to the default setting.

request timeout secs
Configures the request timeout in seconds.
secs must be an integer from 1 through 300.

Usage Guidelines
Specifies the session request timeout period in seconds after which the request is deemed to have failed.

Example
The following example configures the default timeout request of 300 seconds:

default request timeout