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.

Command Modes

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)#`

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

Important For information on common commands available in this configuration mode, refer to the Common Commands chapter.

diameter

This command configures Diameter parameters.

Product

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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

```
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
```

failure-handling

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

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Command Modes

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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

```
[ 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

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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
```