CAMEL Service Configuration Mode Commands

CAMEL service enables operators of 2.5G/3G networks to provide operator-specific services (such as prepaid GPRS service and prepaid SMS service) to subscribers, even when the subscribers are roaming outside their home public land mobile network (HPLMN).

Command Modes

The CAMEL Service configuration mode provides a set of commands to define the parameters for the Customized Applications for Mobile networks Enhanced Logic (CAMEL) service functionality and the CAMEL interface - the Ge interface.

Exec > Global Configuration > Context Configuration > CAMEL Service Configuration

configure > context *context_name* **> camel-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-camel-service)#
```

Important

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

associate-sccp-network

Configure an association between this CAMEL service and a specified SCCP network.

Product

SGSN

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > CAMEL Service Configuration

configure > context *context_name* **> camel-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-camel-service)#
```

Syntax Description

associate-sccp-network *sccp_network_id*
no associate-sccp-network

no

Removes the association with the CAMEL service configuration.

sccp_network_id

Identifies an already defined SCCP network.

sccp_network_id: Enter an integer from 1 to 12.

Usage Guidelines

The SCCP network must be configured prior to use this command.

CAMEL service will not function unless an SCCP network is associated.

Example

Associate this CAMEL service with SCCP network configuration ID 2:

associate-sccp-network2

end

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

Product

All

Privilege

Security Administrator, Administrator

Syntax Description

end

Usage Guidelines

Use this command to return to the Exec mode.

exit

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

Product

All

Privilege

Security Administrator, Administrator

Syntax Description

exit

Usage Guidelines

Use this command to return to the parent configuration mode.

tcap destination-address

Configure the gsmSCF address to be used to open TC dialogues.

Product

SGSN

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > CAMEL Service Configuration

configure > context *context_name* **> camel-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-camel-service)#
```

Syntax Description

tcap destination-address { configured-address | received-address }
default tcap destination-address

configured-address

Default.

Instructs the SGSN to use the SCF address from the GPRS-CSI.

received-address

Instructs the SGSN to overwrite the gsmSCF address with the memorised gsmSCF address that was in the first response message to the InitialDPGPRS and then to use that gsmSCF address.

Usage Guidelines

This command enables the operator to determine which gsmSCF address is to be used to open new TC dialogues. In accordance with 3GPP 29.078, section 14.1.4.1.3, this command enables the SGSN to establish new TC dialogues within the context of a current GPRS dialogue, based on the operators choice:

- to use a 'received-address' where the gprsSSF learns the gsmSCF address used in the first response message to the InitialDPGPRS and uses it to open new TC dialogues, or
- to use a 'configured-address' where the gprsSSF uses the gsmSCF address from the GPRS-CSI to open new TC dialogues.

Example

Configure the SGSN to overwrite the SCF address and to use the gsmSCF address received in the response message:

tcap destination-address received-address

timeout

Configure a range of timers needed to support CAMEL service.

Product

SGSN

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > CAMEL Service Configuration

configure > **context** *context_name* > **camel-service** *service_name*

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-camel-service)#
```

Syntax Description

timeout { gprs-apply-charging-report-ack-timer *seconds* **| gprs-entity-release-ack-timer** *seconds* **| gprs-event-report-ack-timer** *seconds* **| gprs-tssf-timer** *seconds* **| sms-event-report-ack-timer** *seconds* **| sms-tssf-timer** *seconds* **| tc-guard-timer** *seconds* **}**
default timeout { gprs-apply-charging-report-ack-timer | gprs-entity-release-ack-timer | gprs-event-report-ack-timer | gprs-tssf-timer | sms-event-report-ack-timer | sms-tssf-timer | tc-guard-timer }

default

Resets the timers to default values.

gprs-apply-charging-report-ack-timer *seconds*

Configure the TCAP invoke timer to set the length of time the SGSN waits for an acknowledgement after sending an ApplyChargingReportGPRS to the SCF.

seconds: Enter an integer from 1 to 20. Default: 4

Important This timer value should be less than the value configured for the tc-guard-timer.

gprs-entity-release-ack-timer *seconds*

Configure the TCAP invoke timer to set the length of time the SGSN waits for an acknowledgement from the SCF after sending Entity Release information.

seconds: Enter an integer from 1 to 20. Default: 4

gprs-event-report-ack-timer *seconds*

Configure the TCAP invoke timer to set the length of time the SGSN waits for an acknowledgement from the SCF after the SGSN sends an event report.

seconds: Enter an integer from 1 to 20. Default: 4

gprs-tssf-timer *seconds*

Configure the GPRS TSSF timer to set the length of time the SGSN waits for an instructions from the SCF. On expiry the SGSN handles the transaction through the default handling specified in the corresponding CSI.

seconds: Enter an integer from 1 to 10. Default: 5

sms-event-report-ack-timer *seconds*

Configure the TCAP invoke timer to set the length of time the SGSN waits for an acknowledgement from the SCF after the SGSN sends an event report for SMS.

seconds: Enter an integer from 1 to 20. Default: 4

sms-tssf-timer *seconds*

Configure the SMS TSSF timer to set the length of time the SGSN waits for an instructions from the SCF. On expiry the SGSN handles the transaction through the default handling specified in the corresponding CSI.

seconds: Enter an integer from 1 to 10. Default: 5

tc-guard-timer *seconds*

Configure the guard tier to start when the SGSN sends ApplyChargingReportGPRS to the SCF. On expiry the SGSN closes the TCAP dialogue if the GPRS Dialogue state is "monitoring". Default handling complies with 3GPP 23.078.

seconds: Enter an integer from 1 to 10. Default: 5

Important This timer value should be greater than the value configured for the gprs-apply-charging-report-ack-timer.

Usage Guidelines

The SCCP network must be configured prior to use this command.

CAMEL service will not function unless an SCCP network is associated.

Repeat the command to configure multiple timers.

Example

Set the tc-guard timer for 4:

```
tc-guard-timer 4
```