

IMEI Profile Configuration Mode

Essentially, an IMEI profile is a template which groups a set of device-specific commands that may be applicable to one or more IMEIs. The same IMEI profile can be associated with multiple IMEI ranges and multiple operator policies.

An SGSN supports a total of 1000 IMEI profile configurations.

Command Modes

The IMEI profile configuration mode defines a set of parameters controlling the SGSN behavior when a Request is received from a device in the specified IMEI (International Mobile Equipment Identity) range. An IMEI profile is a key element in the Operator Policy feature and an IMEI profile is not used or valid unless it is associated with an IMEI range and this association is specified in an operator policy (see the *Operator Policy Configuration Mode Commands* chapter elsewhere in the *Command Line Interface Reference*).

Exec > Global Configuration > IMEI Profile Configuration

configure > imei-profile profile name

Entering the above command sequence results in the following prompt:

[local]host_name(config-imei-profile-profile_name) #



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

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associate

Associate an APN remap table with this IMEI profile.

Note that an APN remap table can be associated with an IMEI profile before the table has actually been created/configured.

 Product
 SGSN

 Privilege
 Security Administrator, Administrator

 Command Modes
 Exec > Global Configuration > IMEI Profile Configuration configure > imei-profile profile_name

 Entering the above command sequence results in the following prompt:
 [local]host name(config-imei-profile_name) #

Syntax Description associate apn-remap-table table_name no associate apn-remap-table

no

Disables the configured remap table association.

table_name

Define the name of an APN remap table that is to be associated with this IMEI profile for call routing based in IMEI.

Usage Guidelines Use this command to associate an APN remap table with this IMEI profile. With such an association, it is possible to override an APN call-routing based on an IMEI.

For example, with the APN exceptions defined in an APN remap table (refer to the *APN Remap Table Configuration Mode* chapter), a blank APN or an incorrect APN could be overriden. So during PDP Activation for in incoming call, the call could be rerouted based on an IMEI in the range defined for the IMEI profile.

Example

Associate the APN remap table 'remapHO' (remaps all calls with blank APNS to the head-office) to this IMEI profile:

associate apn-remap-table remapHO

blacklist

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	Blacklist all mobile devices that fit the IMEI definitions associated with this IMEI profile.
Product	SGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > IMEI Profile Configuration
	configure > imei-profile profile_name
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(config-imei-profile_profile_name)#</pre>
Syntax Description	blacklist remove blacklist
	remove
	Including this keyword with the command, removes the blacklist command from the IMEI profile configuration.
Usage Guidelines	Blacklists subscribers whose devices bear IMEI that match the defined IMEI range for this profile.
	Example
	Use this command to black list all subscribers with IMEI that fall within the range set for this IMEI profile:
	blacklist
	blacklist

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description

	Define a descriptive string relevant to the specific APN profile.
Product	SGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > IMEI Profile Configuration
	configure > imei-profile profile_name
	Entering the above command sequence results in the following prompt:
	[local] <i>host_name</i> (config-imei-profile_ <i>profile_name</i>)#
Syntax Description	description description remove description
	remove
	Removes the configured description from this APN profile.
	description
	Enter an alphanumeric string of 1 to 100 alphanumeric characters. The string may include spaces, punctuation, and case-sensitive letters if the string is enclosed in double quotes (").
Usage Guidelines	Define information that identifies this particularly APN profile.
	Example
	Indicate that this IMEI profile <i>IMEIprof1</i> is to be used for customers in the United Kingdom and that the profile:
	description "IMEIprofl defines routing actions based on IMEI for customers in the UK."

direct-tunnel

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Instruct the SGSN to enable/disable a direct tunnel between the RNC and the GGSN based on the IuPS service configuration.

Product	- SGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > IMEI Profile Configuration
	<pre>configure > imei-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(config-imei-profile-profile_name) #</pre>
Syntax Description	direct-tunnel check-iups-service no direct-tunnel
	no direct-tunnel
	This command instructs the SGSN to disable the direct tunnel function between the GGSN and the RNC.
Usage Guidelines	Direct tunnel is enabled by default on the GGSN and often on the RNC. This leaves it to the SGSN's configuration to actually enable or disable a direct tunnel.
	With the SGSN, the options for configuring a direct tunnel are complex enable/disable on the basis of APNs, or RNCs, or GGSNs, or on the basis of the IMEI range. Refer to the <i>SGSN Administration Guide</i> for configuration details.
	Example
	Assuming the IuPS service configuration has enabled DT for associated RNCs, then use this command to enable DT from the RNC to the GGSN associated with this IMEI profile:
	direct tunnel check-iups-service

end

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

Product	SGSN	
Privilege	Security Administrator, Administrator	
Syntax Description	end	
Usage Guidelines	Return to the Exec mode.	

exit

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

Product	SGSN
Privilege	Security Administrator, Administrator
Syntax Description	exit
Usage Guidelines	Move to the previous configuration mode.

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ggsn-address

	Identify the target GGSN for traffic being managed by this IMEI profile.
Product	SGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > IMEI Profile Configuration
	configure > imei-profile profile_name
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(config-imei-profile_profile_name)#</pre>
Syntax Description	ggsn-address IPv4/IPv6_address
	IPv4/IPv6_address
	Enter the IP address of the target GGSN. Enter the address in either standard IPv4 dotted decimal format or in standard IPv6 colon notation format.
Usage Guidelines	Use this command to define the IP address of the target GGSN to be associated with this IMEI profile.
	Example
	The following command identifes the address of the GGSN associated with this IMEI profile as 123.123.11.1
	ggsn-address 123.123.11.1

ignore-pdp-data-inactivity

On executing this command the SGSN ignores PDP Data Inactivity configuration under the APN profile for one or more matching IMEIs.

Product	SGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > IMEI Profile Configuration
	<pre>configure > imei-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	<pre>[local]host_name(config-imei-profile-profile_name)#</pre>
Syntax Description	ignore-pdp-data-inactivity remove ignore-pdp-data-inactivity
	remove
	This command is used to disable or remove the option to ignore PDP data inactivity from the IMEI profile.
Usage Guidelines	The SGSN supports options to configure PDP Data Inactivity detection duration and actions to be performed on timeout under the APN-Profile. The following configurable actions are supported under APN-Profile in case of PDP Data Inactivity detection in the PDP context:
	1. De-activate all PDPs of the subscriber
	2. De-activate all PDPs of the bundle (all linked PDPs)
	3. Detach the subscriber. This action is triggered when:
	• Data in-activity is detected for all PDPs
	• Data in-activity is detected for any of the PDPs
	On the Detection of the PDP Data Inactivity, depending on the configuration option the SGSN either de-activates the PDP or detaches the subscriber.
	The ignore-pdp-data-inactivity CLI is added to provide an option under the IMEI-Profile to ignore PDP Data Inactivity configuration for one or more IMEIs. On configuring this CLI, the SGSN ignores the application of in-activity configuration (configured in the APN-Profile) for a specified set of IMEI's.
Note	The IMEI range or set of IMEI's are mapped to specific IMEI-Profile using the CLI configuration option under Operator-policy.

Example

Use this command to ignore PDP Data Inactivity configuration under the APN profile for one or more matching IMEIs.

ignore-pdp-data-inactivity

pdp-activate

This command enables the operator to configure the SGSN to reject Secondary PDPActivation Requests from the UE based on IMEI range.

Product	- SGSN
Privilege	Administrator
Command Modes	Exec > Global Configuration > IMEI Profile Configuration
	<pre>configure > imei-profile profile_name</pre>
	Entering the above command sequence results in the following prompt:
	[local]host_name(config-imei-profile-profile_name)#
Syntax Description	<pre>[remove] pdp-activate { drop restrict } secondary-activation access-type { gprs umts }</pre>
	remove
	Removes the configured value and returns the pdp-activate configuration to the default 'not configured' state.
	drop
	This keyword causes the GSN to ignore the Request.
	restrict
	This keyword instructs the SGSN to reject Secondary PDP Activation Requests.
	access-type { gprs umts }
	This keyword instructs the SGSN to ignore or reject Secondary PDP Activation Requests on the basis of the UE's access network type:
	 gprs : from a 2G network. umts : from a 3G network.
Usage Guidelines	The SGSN administrator can use this command to configure the IMEI profile in the operator policy to either ignore or reject Secondary PDP Activation Requests from UEs based on an IMEI range and UE access-type.
	Restricting secondary PDP activation based on the IMEI (in the IMEI profile) takes precedence over secondary PDP activation that might be configured in the call control profile.
	Example
	Enable rejection of Secondary PDP Activation Requests for 2G callers:
	pdp-activate restrict secondary-activation access-type gprs