



# SGSN Pool Area Configuration Mode Commands

Command Modes	<p>The Pool Area configuration mode configures the parameters used to setup the VLRs to use with a pool area in a Gs service.</p> <p>Exec &gt; Global Configuration &gt; Context Configuration &gt; Gs Service Configuration &gt; Pool Area Configuration</p> <p><b>configure &gt; context</b> <i>context_name</i> &gt; <b>gs-service</b> <i>service_name</i> &gt; <b>pool-area</b> <i>pool_area_name</i></p> <p>Entering the above command sequence results in the following prompt:</p> <pre>[context_name]host_name(config-gs-pool-area)#</pre>
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Important	<p>The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).</p> <ul style="list-style-type: none"><li>• <a href="#">do show</a>, on page 1</li><li>• <a href="#">end</a>, on page 2</li><li>• <a href="#">exit</a>, on page 2</li><li>• <a href="#">hash-value</a>, on page 2</li><li>• <a href="#">lac</a>, on page 4</li></ul>
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## do show

	Executes all <b>show</b> commands while in Configuration mode.
Product	All
Privilege	Security Administrator, Administrator
Syntax Description	<b>do show</b>
Usage Guidelines	<p>Use this command to run all Exec mode <b>show</b> commands while in Configuration mode. It is not necessary to exit the Config mode to run a <b>show</b> command.</p> <p>The pipe character   is only available if the command is valid in the Exec mode.</p>

end



**Caution** There are some Exec mode **show** commands which are too resource intensive to run from Config mode. These include: **do show support collection**, **do show support details**, **do show support record** and **do show support summary**. If there is a restriction on a specific **show** command, the following error message is displayed:

Failure: Cannot execute 'do show support' command from Config mode.

# end

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

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

# exit

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

<b>Product</b>	SGSN
<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>exit</b>
<b>Usage Guidelines</b>	Return to the previous configuration mode.

# hash-value

This command configures the load distribution for the VLRs that service this pool area.

<b>Product</b>	SGSN
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > Context Configuration > Gs Service Configuration > Pool Area Configuration <b>configure &gt; context</b> <i>context_name</i> > <b>gs-service</b> <i>service_name</i> > <b>pool-area</b> <i>pool_area_name</i> Entering the above command sequence results in the following prompt: <i>[context_name]host_name(config-gs-pool-area)#</i>

**Syntax Description**

```
hash-value { hash_value | non-configured-values | range start_value to end_value
            } use-vlr vlr_name
no hash-value { hash_value | non-configured-values | range start_value to
end_value }
```

**no**

Removes the configured Gs procedures from this Gs service.

**hash\_value**

Specifies the specific hash value for VLR(s).

*hash\_value* must be an integer value from 0 through 999.

**range start\_value to end\_value**

Specifies the range of hash values for a VLR.

*start\_value* specifies the start value for range of hash and is an integer value from 0 through 999. *start\_value* must be lower than *end\_value*.

*end\_value* specifies the end value for range of hash and is an integer value from 0 through 999. *end\_value* must be higher than *start\_value*.

**non-configured-values**

This keyword assign all non-configured hash values to use the named VLR.

**use-vlr vlr\_name**

Specifies the name of the VLR to be associated with this pool area.

*vlr\_name* is the name of VLR and must be an alpha and/or numeric string of 1 to 63 characters.

**Usage Guidelines**

Use this command to command configures the load distribution for the VLRs that service this pool area as defined in TS 23.236.

The algorithm for selection of VLR from a pool area is based on the hash value computed on the IMSI digits. The SGSN derives a hash value (V) using procedure as defined in TS 23.236. Every hash value from the range 0 to 999 corresponds to a single MSC/VLR node. Typically many hash values may point to the same MSC/VLR node.

This command can be entered multiple times for different hash value.

**Example**

Following command configure the all non configured hash values to use VLR named *starvlr1* in this pool area:

```
hash-value non-configured-values use-vlr starvlr1
```

# lac

This command defines a set of location area code (LAC) values for a pool area.

<b>Product</b>	SGSN
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	<p>Exec &gt; Global Configuration &gt; Context Configuration &gt; Gs Service Configuration &gt; Pool Area Configuration</p> <p><b>configure</b> &gt; <b>context</b> <i>context_name</i> &gt; <b>gs-service</b> <i>service_name</i> &gt; <b>pool-area</b> <i>pool_area_name</i></p> <p>Entering the above command sequence results in the following prompt:</p> <pre>[context_name]host_name(config-gs-pool-area)#</pre>
<b>Syntax Description</b>	<p><b>lac</b> <i>lac_id</i> +</p> <p><b>no lac</b> <i>lac_id</i></p> <p><b>no</b></p> <p>Removes the configured LAC value from this pool area configuration.</p> <p><b>lac</b> <i>lac_id</i></p> <p>Specifies the subscribers' location area code (LAC) to be associated with this pool area and a specific VLR. This LAC is obtained from the radio area identity (RAI).</p> <p><i>lac_id</i>: Must be an integer from 1 through 65535.</p> <p><b>+</b></p> <p>More than one <i>lac_id</i>, separated by a space, can be entered within a single command.</p>
<b>Usage Guidelines</b>	<p>Use this command to specify a set of LACs to use for a pool area.</p> <p>This command can be entered multiple times, subject to a limit of 32 LAC definitions (total for <b>non-pool-area</b> and <b>pool-area</b> configuration) per Gs service.</p>



**Important** LAC values across multiple pool areas and non-pool-areas must be unique within the Gs service.

## Example

The following command configures LACs 101, 301, and 222 for the pool area.

```
lac 101 301 222
```