



## Cellular Commands

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### lte gps (cellular)

To configure Global Positioning System (GPS) parameters for a cellular router, use the **lte gps** command in cellular configuration mode. To delete the GPS configuration parameters, use the no form of this command.

```
lte gps { mode { ms-based | standalone } [ enable ] [ nmea [ ip udp ipv4-address ] ] | enable [ mode { ms-based | standalone } ] [ nmea [ ip udp ipv4-address ] ] | nmea [ ip udp source-ip-address destination-ip-address port ] }
```

no lte gps

Syntax Description	
<b>lte gps</b>	Enables GPS on the LTE PIM module in the 0/x/0 section of the controller cellular configuration.
<b>mode</b>	<p>Specifies the mode.</p> <ul style="list-style-type: none"> <li>• <b>ms-based</b>: Use mobile station-based assistance, also called assisted GPS mode, when determining position. In this mode, a network data session is used to obtain the GPS satellite locations, resulting in a faster fix of location coordinates.</li> <li>• <b>standalone</b>: Use satellite information when determining position.</li> </ul> <p><b>Note</b> The <b>standalone</b> parameter is currently not supported for geofencing.</p>
<b>ms-based</b>	<p>Enables ms-based assistance.</p> <p><b>Note</b> We recommend using <b>ms-based</b> mode with a SIM card plugged in and a GPS antenna connected to the LTE pluggable module GPS port.</p> <p>For more information, see <a href="#">Cisco 4G Indoor/Outdoor Active GPS Antenna (GPS-ACT-ANTM-SMA)</a>.</p>

<b>standalone</b>	Enables <b>standalone</b> mode. If there is no SIM card inserted, you can use <b>standalone</b> mode. <b>Note</b> The <b>standalone</b> parameter is currently not supported for geofencing.
<b>enable</b>	Enables the GPS features. Use this command to enable the GPS feature if GPS has been disabled for any reason.
<b>nmea</b>	Enables the use of National Marine Electronics Association (NMEA) streams to Cisco IOS applications for listening to the specified port on the destination address.
<b>ip</b>	(Optional) Enables the redirection of GPS NMEA streams to the destination IP address. <b>Note</b> This parameter is not used for configuring geofencing.
<b>udp source-ip-address destination-ip-address port</b>	(Optional) Enables the redirection of GPS NMEA streams to the source and destination IP address and port. <b>Note</b> This parameter is not used for configuring geofencing.

**Command Modes**

controller Cellular 0/x/0 (config-Cellular-0/x/0)

**Command History**

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.6.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

**Usage Guidelines**

If multiple LTE pluggable module slots are present in the platform chassis, we recommend that you configure GPS on only one of the LTE pluggable module slots and use the slot for GPS coverage.

**Examples**

The following example enables GPS on the LTE PIM module:

```
Device(config)# controller Cellular 0/2/0
Device(config-Cellular-0/2/0)# lte gps enable
```

The following example sets ms-based assistance on the LTE PIM module:

```
Device(config-Cellular-0/2/0)# lte gps mode ms-based
```

The following example configures nmea on the LTE PIM module:

```
Device(config-Cellular-0/2/0)# lte gps nmea
```

## profile id

To create a data profile for a device, use the **profile id** command in cellular configuration mode. To set the command to the default state, use the **no** form of this command.

```
profile id id apn name [ authentication auth_type username username password password ] [ pdn-type pdn_type ] [ slot slot_number ]
```

**no profile id** *id*

Syntax Description		
	<i>id</i>	Identification number of the data profile. Valid values are from 1 to 16.
	<b>apn</b> <i>name</i>	Name of the access point network of the service provider.
	<b>authentication</b> <i>auth_type</i>	Authentication type used for APN access. Valid values are: <ul style="list-style-type: none"> <li>• <b>chap</b>: Use CHAP authentication only.</li> <li>• <b>pap</b>: Use PAP authentication only.</li> <li>• <b>pap_chap</b>: Use PAP or CHAP authentication.</li> </ul>
	<b>username</b> <i>username</i>	Username provided by the service provider for APN access authentication. Required if the authentication type is <b>chap</b> , <b>pap</b> , or <b>pap_chap</b> , otherwise not used.
	<b>password</b> <i>password</i>	Password provided by the service provider for APN access authentication. Required if the authentication type is <b>chap</b> , <b>pap</b> , or <b>pap_chap</b> , otherwise not used.
	<b>pdn-type</b> <i>pdn_type</i>	Type of packet data matching used for APN access. Valid values are: <ul style="list-style-type: none"> <li>• <b>ipv4</b>: IPv4 type bearer.</li> <li>• <b>ipv4v6</b>: IPV4V6 type bearer.</li> <li>• <b>ipv6</b>: IPv6 type bearer.</li> </ul>
	<b>slot-number</b> <i>slot_number</i>	SIM slot that contains the SIM to configure. Valid values are 0 (primary SIM card) and 1 (secondary SIM card).

**Command Default** By default, when the Auto SIM feature is enabled on a modem, a data profile is selected based on the modem firmware.

**Command Modes** Controller cellular configuration (controller-cellular)

Command History	Release	Modification
	Cisco SD-WAN Release 20.8.1	This command was introduced.

**Usage Guidelines** If a device contains two SIM cards, you can create a separate data profile for each SIM card.

**Examples**

The following example shows how to configure a data profile for the primary SIM card in a device:

```
controller Cellular 0/1/0
  profile id 6 apn test authentication chap username admin password my_password pdn-type
  ipv4 slot 0
```

