**PDP Context & Internet Setup**

In cellular communication, a **PDP (Packet Data Protocol) context** is required for a device to establish an internet connection using mobile data. This context defines the type of connection and the APN (Access Point Name), which is used by the network to route the device's traffic.

To configure a PDP context, the command **AT+CGDCONT** is used. This command sets the APN, data protocol type, and assigns a context ID.

**Command Syntax:**

AT+CGDCCONT=<cid>,"<PDP\_type>","<APN>"

* **<cid>**: Context Identifier (usually 1).
* **<PDP\_type>**: Packet data protocol type, typically "IP".
* **<APN>**: The Access Point Name provided by the mobile operator (e.g., "internet").

**Example Command:**

AT+CGDCONT=1,"IP","internet"

**Expected Response:**

OK

This command sets up the default PDP context to use IP protocol with the APN set to "internet".

To check the current PDP context configuration, the command **AT+CGDCONT?** can be used.

**Example:**

AT+CGDCONT?

**Expected Response:**

+CGDCONT: 1,"IP","internet","0.0.0.0",0,0

OK

Here, "0.0.0.0" indicates that no IP address has yet been assigned, but the context setup is complete.