

PDP Context & Internet Setup

Objective

To research the APN (Access Point Name) configuration using the AT+CGDCONT command on a real modem, since the CelerSMS AT Emulator does not support this functionality.

APN Configuration with AT+CGDCONT

The AT+CGDCONT command is used to define a PDP (Packet Data Protocol) context, which specifies how the modem connects to the packet-switched data network (e.g., the Internet).

Syntax:

AT+CGDCONT=<cid>,"<PDP_type>","<APN>"

- <cid>: Context identifier (an integer, e.g., 1, 2 ...)
- <PDP_type>: Type of packet data protocol, usually IP for IPv4.
- <APN>: Access Point Name, which is provided by your mobile network operator.

Example:

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

This command defines a PDP context with:

- Context ID: 1
- PDP Type: IP
- APN: internet

Once configured, this context can be activated using `AT+CGACT=1,<cid>` and a data session can be established.

Conclusion

For real-world usage, this command must be tested on a real modem or module that supports packet-switched data, as the CelerSMS AT Emulator does not simulate PDP contexts.