**GPRS** - **PDP** Context. Advertisements. **PDP stands for** Packet Data Protocol. The **PDP** addresses are network layer addresses (Open Standards Interconnect [OSI] model Layer 3). ... The public packet data network is only concerned that the address belongs to a specific GGSN.

The Gateway GPRS Support Node (**GGSN**) is a main component of the GPRS network. The **GGSN** is responsible for the interworking between the GPRS network and external packet switched networks, like the Internet and X.25 networks

* AT+XGAUTH=<cid>,<auth>,<name>,<pwd> ------------- AT+XGAUTH=1,0,”gsm”,”1234”

Should be called before AT+CGDCONT . [both internal and external protocol can use this instruction]

* AT&D2 command used in the external stack ------ should be used for data mode and AT mode switch settings and should be called before AT+CGDCONT [this command is used in the external stack]
* AT+XISP = <n>------------------ advised by neoway that it should be called before calling AT CGDCONT

n = 0 for internal stack

n = 1 for external stack

* AT+CGDCONT=<cid>,<type>,<APN> ------------ AT+CGDCONT = 1, “IP”, “gpinternet”

Cid = 1

* +++ switch from data mode to AT mode [this command is used in the external stack]
* ATO ---------- switch to Data mode from AT mode [this command is used in the external stack]
* AT+CREG? Response: +CREG: 0,1 or +CREG: 0,5 check should be done to check whether module is registered to the network or not ?
* AT+XIIC = <n> n= 1 for request to establish PPP link [it will establish link with GGSN and obtain an IP should be called after checking network registration [internal stack]
* AT+TCPSETUP=<n>,<ip>,<port> establish TCP link with the ip should be called after PPP link has been established

I am guessing May be n = 0 for internal n = 1 for external

* AT+IPSTATUS = <n> check available size

n = 0/1 internal /external may be

* AT+TCPSEND=<n>,<length> send TCP data [internal stack] end data by 0x0D

Length = no of bytes , n = 0/1 internal / external maybe

* +TCPRECV:<n>,<length>,<data> n = 0/1 may be internal/external length: no of bytes data : data ends with 0x0D 0x0A
* AT+TCPCLOSE = <n> may be n = 0/1 internal / external