

**4G Data Flow**

**Language: ENG**

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# 4G Data Flow

1. Enodeb --->tower which supports for 4G handset
2. PGW ----------> packet data network gateway which is used for routing the packets
3. HSS-------> home subscriber server which stores subscriber info
4. GX -------> it is interface between PGW and PCRF
5. GY --------> it is interface between PGW and OCS

# Flow

1. Create session request will come from (MME---------->PGW)
2. Later pgw ---------------------->PCRF (qos info and polices related to sub and speed config) this is called CCR-I(credit control request - INITIAL)
3. PCRF-------------->PGW (CCA-I credit control answer -INITIAL)
4. PGW------------>DCCSgy------------>DRE(ocs) to grant quota which sub have
5. If sub have quota dre will grant to DCCS and DCCS to PGW, PGW to UE
6. If he did not have any quota then we will result code 4012
7. Then PGW will start data session with create session response to UE and UE start browsing the data(CCR and CCA for Intial)

# **Update**

1. If given quota was exhausted then he will again come to OCS for asking quota this is called update request(CCR-UPDATE)
2. Again ocs will grant quota to sub in update Answer (CCA-UPDATE)

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# **Terminate**

1. If user stops browsing data then OCS will stop granting quota to PGW this is called (CCR-Terminate)
2. After stoping granting quota it will terminate the session(CCA-Terminate)
3. What ever session created in create session request, it will delete after termination this is called delete session Request later PGW will give Delete session reponse.