IMS – IP multi media subsystem – controls multimedia services accessing different networks

SGW (Serving Gateway):The main function of the Serving Gateway is routing and forwarding of user data packets. It is also responsible for inter-eNB handovers in the U-plane and provides mobility between LTE and other types of networks, such as between 2G/3G and P-GW.

The PCC (Policy and Charging Control) architecture has been specified by the 3GPP as a mechanism which enables packets flowing through an IP-CAN to be associated with a particular charging key for both online and offline billing.

The Packet Core Gateway (PCG) is an important component of the dual-mode Cloud Core solution, which also includes the Packet Core Controller (PCC) and other cloud core products. The PCG is fully cloud native and supports both 5GS and EPS PCG functionality.

The User Plane Function (UPF) represents the data plane evolution of a Control and User Plane Separation (CUPS) strategy, which is a fundamental component of the 3GPP 5G core network(5GC). The UPF plays the most critical role in the process of data transfer.