**Network functions:**

The 5G Core (5GC) network is a collection of network functions that are software-based and cloud-native. These functions are designed to be flexible and agile, and can be deployed on multiple cloud infrastructures. The 5GC network is built using a Service Based Architecture (SBA) that combines IT network principles and cloud-native design.

AMF, or Access and Mobility Management Function, is a control plane network function (NF) in the 5G core network (5GC). It manages the 5G network's control plane, which is responsible for signaling and network management.

SMF stands for Session Management Function and is a key part of the 5G core network. It's responsible for managing sessions between user devices and the network.

The User Plane Function (UPF) is a central component of the 5G core network (5GC) architecture that plays a critical role in data transfer. It's the data plane in the 5GC that connects data from the Radio Area Network (RAN) to the internet.

The Policy Control Function (PCF) is a key component of 5G networks that manages policies that regulate various aspects of the network. It's a control plane network function of the 5G core network (5GC) and an evolution of 4G's Policy and Charging Rules Function (PCRF).