Tecore networks

5G Standalone Micro Services iCore

Tecore Networks 5G Standalone (SA) Core is based on cloud native architecture; perfect for Enterprises, Commercial operators and Government agencies. This 5G Core network utilizes a Service-Based Architecture (SBA), enabling a flexible, modular and secure interface providing robust benefits to Communication Service Providers (CSPs). Supporting Network Function Virtualization (VNF) and Software Defined Networking (SDN), Tecore's 5G architecture separates the control plane and user plane enabling central, distributed or hybrid deployment models.

This 5G Core network's capabilities are diverse and extensive, supporting high bandwidth communication, ultra-low latency for M2M and IoT applications, IMS support for Voice (VoNR) and SMS. These functions can run as containerized applications in a public or private cloud and in cloud native environments such as Kubernetes and OpenShift thereby reducing the total cost of ownership.

The adoption and deployment of 5G networks is no longer just a nice to have but a necessary evolution in telecommunication network infrastructure. Enterprise, commercial operators and government users all recognize the benefits that 5G offers. A comprehensive 5G network allows quicker go-to-market commercialization, greater capacity, higher transmission rate, low latency, high availability, greater security and higher throughput.

With 30 years of industry experience, Tecore Networks, a U.S based wireless infrastructure vendor has deployed carrier-grade core networks on a global scale and is a trusted vendor to the commercial, government and military markets.

5G Features

Feature Capabilities
- Hosted on Kubernetes, VMs, x86 or baremetal server
- Network slicing using NSSF
- Easy to use User Interface
- REST based configuration /provisioning/monitoring
- Integrated with ELK/EFK for logs and metrics
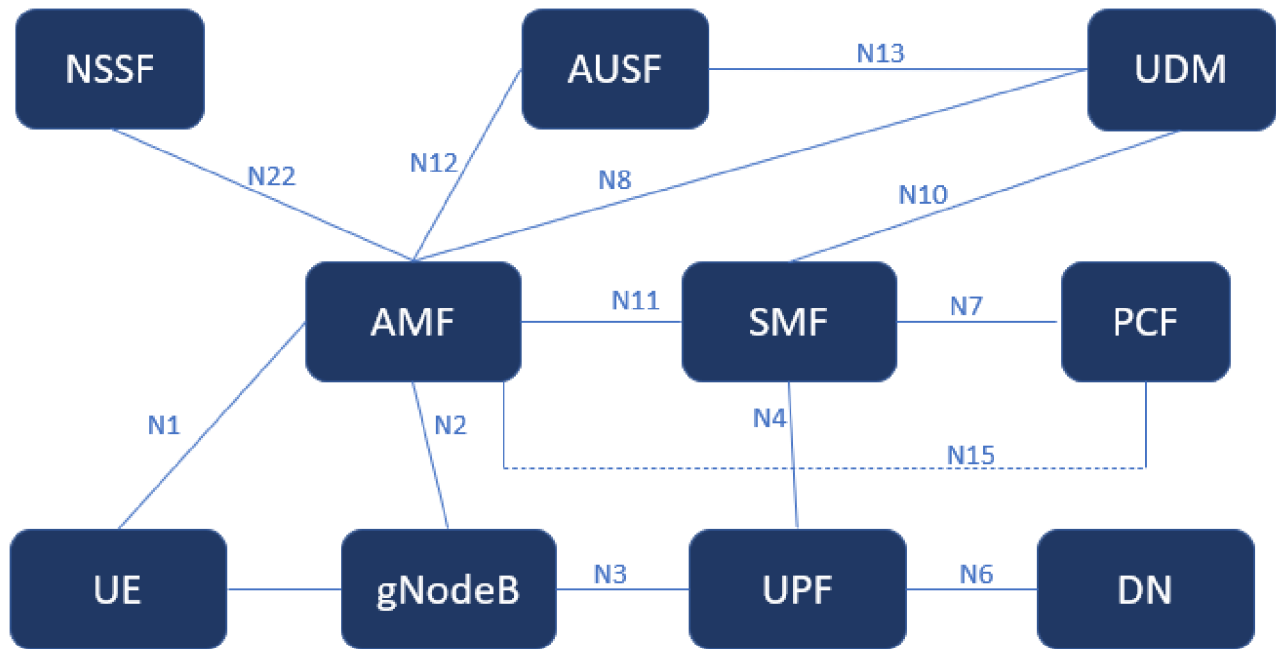- CUPS architecture with scalable data plane

5G Core Network Elements
- AMF, SMF, UPF, PCF, AUSF, UDM, NSSF, AF
- IMS for VoLTE/VoNR & SMS

5G Use Cases and Benefits
- Ultra Reliable Low Latency Communication (URLLC)
- Point to Point Fixed Wireless Access (FWA)
- Enhanced Mobile Broadband (eMBB)
- Reduced packet latency
- Increased Performance
- Higher throughput
- Cloud Native solution

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Network diagram showing: NSSF, AUSF, UDM, AMF, SMF, PCF, UE, gNodeB, UPF, DN connected via interfaces N1, N2, N3, N4, N6, N7, N8, N10, N11, N12, N13, N15, N22.

5G Network Management System

- Multi-Tenant Support
- Multi-role Configuration for User Management
- Network Slice Configuration and Management
- Easy to use User Interface
- Policy Rules Management
- Alarm and Events Reporting
- Active/Idle status on number of subscribers and PDU sessions

Tecore's All-G Core Network