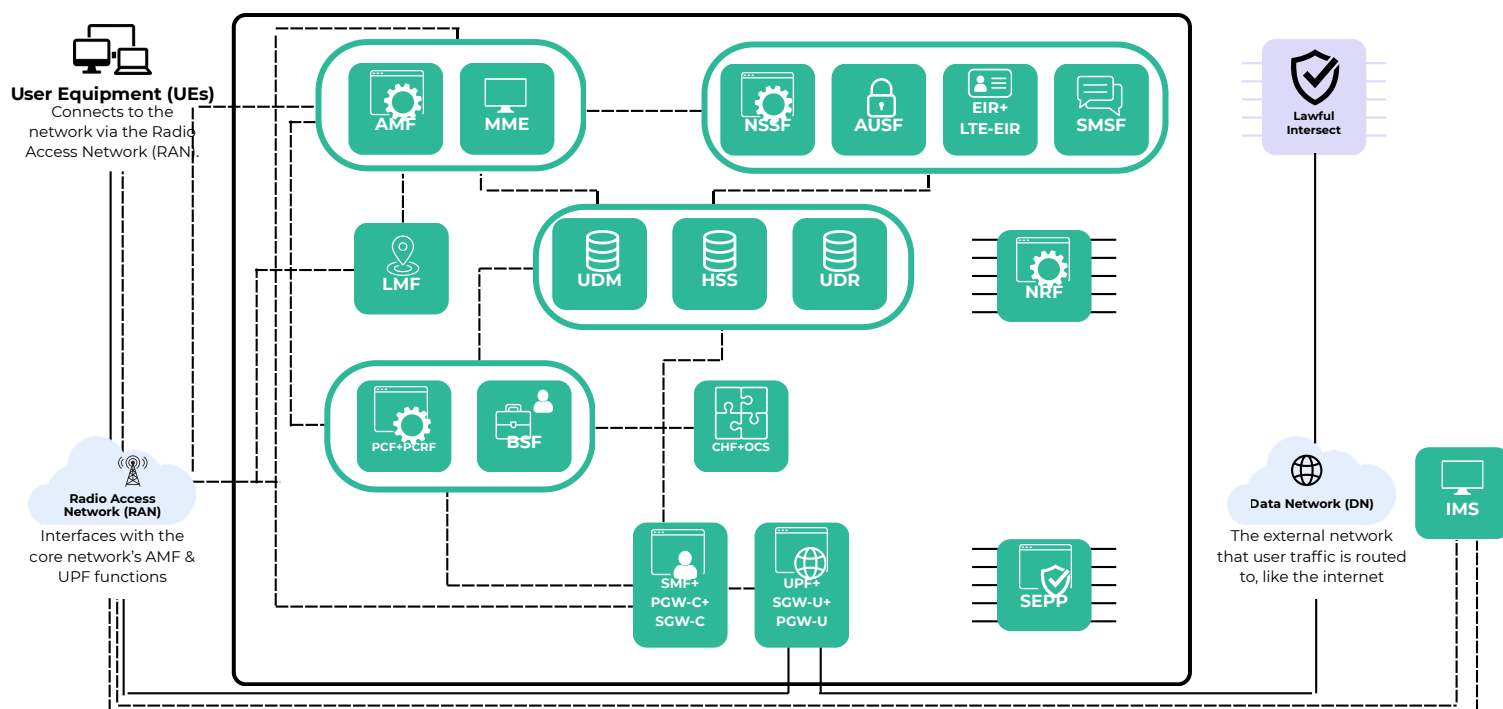


TJ9500 5G Converged Core



Tejas 5G Converged Core is a Cloud-Native Based 3GPP Release 17 compliant interfaces, 5GC for Public Land Mobile, Fixed Wireless Access deployments & Captive Non-Public Networks.

It supports 5G SA, Converged 4G/5G and 4G EPC with its cloud native architecture thereby having capability of integrating 4G as well as 5G technologies towards seamless user experience & service continuity.

Tejas 5G Converged Core with modular and cloud-native architecture enables seamless upgrades, deployment of advanced 5G features without major infrastructure changes.

Tejas 5G Converged Core supports Network Slicing & Edge Computing functionality for delivering low-latency services closer to end user thereby enhancing application performance.

Its compact, cloud-native & energy-efficient design ensures faster 5G Network deployment while maintaining 4G Service continuity. Its Open standard Interfaces based design supporting scalable and cost-effective approach for seamless integration multi-vendor deployments.

Key Highlights

- 🌐 Converged 4G/5G Packet core [EPC+5GC]
- 🔗 Standards-based integration with IMS for VoLTE/ VoNR
- ☁ Fully cloud-native, micro-services based design
- ⚙ Customizable deployment with HA Support
- ✅ 3GPP Rel 17 compliant interfaces
- ⚙ Carrier grade Performance and Reliability

Architecture & Technology

Architecture	Cloud-Native Service Based Architecture
Technology	5G SA, 4G EPC + 5GC, 4G
Deployment Model	On-premises, Cloud, Hybrid
Virtualization Support	CNF (Cloud-Native Function)

Performance & Scalability

Control Plane Scalability	Modular & Scalable
User Plane Throughput	Scalable with Cloud Native Platform
Resource Elasticity	Auto-scaling of resources based on network traffic load
Data Plane Optimization	UPF offloading for Reduced Latency and Higher Throughput
Load Balancing & High Availability	Inbuilt redundancy

Network Functions & Features

Multi-Access Edge Computing (MEC)	Supported
Roaming & Mobility Support	3GPP Compliant with roaming and mobility between LTE and 5G
Interworking Support	LTE-5G Handover, EPS Fallback
Lawful Interception (LI)	3GPP Compliant

Protocol & Interface Support

Protocol Support	HTTP/2, PFCP, GTP, NGAP, SCTP, SIP
Security Protocols	TLS 1.3, IPsec, EAP-AKA
Diameter and HTTP/2	Supported

