

2G / 3G / 4G Multi-Technology Core Network



iCore is the world's first complete, multi-technology mobile network available in three distinct implementations targeted at commercial, private, government, military and OEM market segments.

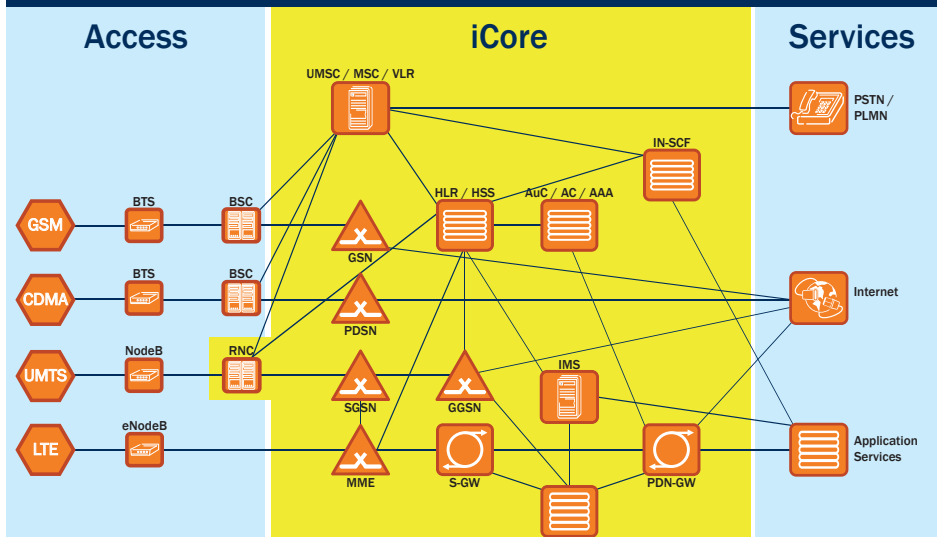
This platform delivers one or multiple core network subsystems for GSM, CDMA, GPRS / EDGE, UMTS, LTE, Wi-Fi and WiMAX, enabling support for the most widely deployed mobile technologies in a broad range of applications and deployment scenarios. The common set of object code implements support for all protocols from a single converged platform. Utilizing a carrier-grade, high-availability Linux platform, the next generation iCore provides a solution for million-subscriber markets as well as distributed scalability across any-sized market. With integrated media gateway capabilities and a choice of standalone or distributed architectures, the system offers an efficient path to convergent wireless technologies and a competitive technology road map for tomorrow's markets.

iCore leverages Tecore's track record of deploying GSM, CDMA, 3G and multi-protocol networks around the globe, as well as its patented software-defined architecture guided by 3GPP / 3GPP2 and IMS standards, to deliver a comprehensive, converged mobile platform.

Features

- Support for GSM, CDMA, GPRS / EDGE, UMTS, LTE, Wi-Fi and WiMAX from common object code
- All core network functionality:
 - UMSC / MSC / VLR
 - HLR / HSS
 - MGC
 - MG
 - GMSC
 - SMSC / MMSC
 - PPGW
 - IN-SCF
 - GSN
 - RNC
 - MME
 - SAE
 - AuC / AC
 - AAA
 - IMS
- Supports up to 1 million BHCA and 1,000 SS7 transactions per second
- Full suite of call control and routing capabilities
- Complete signaling capabilities for integration with PLMN, PSTN, IP and satellite networks
- A wide range of vocoders on software-based DSPs including AMR and EVRC
- Security features including the major standards-based algorithms
- 64-bit Linux-based processing

Tecore Networks Product Portfolio



Commercial Carriers

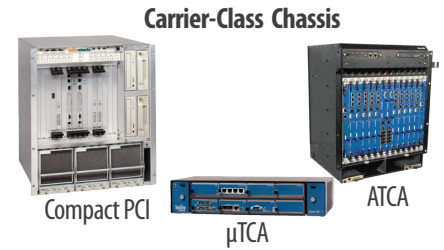
The multi-protocol, multi-interface nature of iCore allows operators to maximize service quality and revenue from existing operations while simultaneously rolling out a next-generation network. Mobile operators can also build overlay (GSM-over-CDMA, CDMA-over-GSM or 3G-over-2G) networks with integrated switching, simplifying the network and reducing costs.

Government/Military Systems

iCore is ideal for tactical and first responder systems where access to multiple radio access technologies, streamlined operation and mission-critical security features are essential. A complete, multi-technology voice and data-capable mobile network contained in a single ruggedized case can be operational in one hour. With scalability based on standalone or integrated operations, this system is ideal for environments ranging from embassies to the battlefield.

Enterprise Mobility Management

Enterprise IT managers need a comprehensive platform to address the wide range of mobile devices accessing their network. They have few options that will support all major access technologies in a cost-effective and streamlined manner. In the iCore they can find an unmatched combination of protocols, feature set and enterprise-class form factor.



Government-Class Rapid Chassis



Enterprise-Class CPU Blade



Software Specifications

CORE NETWORK CAPABILITIES

- UMSC / MSC / VLR
- HLR/HSS
- MGC
- MG
- GMSC
- SMSC / MMSC
- PPGW
- IN-SCF
- GSN
- RNC
- MME
- SAE
- AuC / AC
- AAA
- IMS

MULTI-NATIONAL REGULATORY FEATURE SET

- Intercept / Monitoring
- Emergency Location Services
- Number Portability

PREPAID SERVICES

- Integrated and IN Based Services
- Award Winning OTA Prepaid Service
- Credit Card Recharge, Multi-Top Up, Balance Transfer

- USSD Callback Server

VOCODERS

- G.711 PCM (mu / A-Law) at 64 Kbps
- G.729B CS-ACELP at 8 kbps
- GSM 6.10 Full Rate at 13.2 kbps
- EVRC at 4.0 kbps and 8.55 kbps
- AMR at 4.75-12.2 kbps
- All vocoders are supported with: bundling, VAD, transcoder free operation (TrFO) and tandem free operation (TFO)

SYSTEM FEATURES

- Wireless Multi-Technology / Multi Generation Support
- Media Gateway Function
- SIGTRAN/SS7 Signaling Gateway
- SIP Gateway Trunking (Including local VoIP Codecs)
- Wireless VoIP Codec Support
- Peer to Peer IP Switching
- Localized Call Routing
- Multi MCC / MNC
- Multi-IMSI
- Network ID Time Zone
- Automatic Subscriber Provisioning

- MLPP

SUBSCRIBER FEATURES

- Call Forwarding Feature Pack
- Calling Line Feature Pack
- Multi-Party Feature Pack
- Call Barring Feature Pack
- Operator Determined Barring Feature Pack

SECURITY ALGORITHMS

- GSM Algorithm Security Pack
- CDMA Authentication Algorithm Security Pack

OPERATING SYSTEM

- 64-bit Linux-based processing

PERFORMANCE

- 1,000,000 BHCA
- 1,000 SS7 transactions/second