

Coverage and Services Tailored To Medium- and Large-Business Environments



All-In-One 3G-4G Enterprise Femtocell System

Tecore's All-In-One 3G-4G Enterprise Femtocell System is a complete solution enabling mobile operators to effectively deliver WCDMA, HSPA+ and LTE coverage and services tailored to medium- and large-business environments. The system is based on Tecore's all-IP, next-generation iCore®, capable of managing a full suite of access solutions including Tecore's iNodeB femtocells and picocells, as well as 3GPP-compliant access products.

Femtocell technology has mitigated operators' coverage issues at the residential level, by leveraging a local access point connected through the existing wireline broadband network, a solution which works well in addressing a handful of subscribers. Now as businesses look to bring the same model of localized wireless broadband service to the enterprise, the approach must be upgraded to address both feature set and bandwidth requirements.

The extension of femtocell technology to the enterprise requires scalable components that can operate both as an extension of the commercial network but also provide localized private network capabilities and services. This challenge is not met by today's large-scale centralized infrastructure focused on mass markets. Much like PBXs revolutionized office communications in the 1980s, Tecore's end-to-end solution is a paradigm shift for enterprise-level wireless broadband access delivering the feature set, scalability and connectivity required.



Specifications

3G-4G CAPABILITIES

- 3G: WCDMA
- 4G: HSPA+, LTE

CORE NETWORK CAPABILITIES

- UMSC / MSC / VLR
- SGSN / GGSN
- EPC
- HSS
- AAA
- SMSC / MMSC

ACCESS CAPABILITIES

- Femtocell
- Picocell
- Microcell

FREQUENCY BANDS (MHz)

- WCDMA, HSPA+: 850, 1700, 1800, 1900, 2100
- LTE: 700, 2500, 3600

OPERATIONS & MAINTENANCE

- Self-organizing network (SON)
- Platform-independent user interface
- Plug-and-play at customer premise

SECURITY

- User-to-user encryption
- Site-to-site encryption

Features

- All-in-one core network platform implemented in software allowing enterprise-level scalability
- Scalable from 50 to 5,000 users
- Wide range of access solutions
 - femtocells for distributed offices
 - picocells or microcells for larger facilities and campuses
- Multiple operation modes
 - standalone private networks
 - multi-site
 - roaming interconnect with commercial operator's network
- Self-organizing network (SON)
- Interworking / connectivity with corporate PBXs and LANs
- Localized information security