Mobile Access Solution

- Small Cell Solution
- Residential Solution
- Enterprise Solution
- BSDI Solution
LTE Mobile Broadband
Small Cell Solution
ZyXEL

3G Small Cell

HNB Type

4G Small Cell

HeNB Type

Small Cell Sub-System

IPSec

IPSecVPN

4G Ethernet

3G IPSec VPN

Security G/W

H(e)NG Dual Mode G/W

TR-069/SNMP

Small Cell Management System

ZyMS

Core Network

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UMTS Small Cell

- 3GPP release 8 compliance
- HSDPA/HSUPA/HSPA+ support
- In-LAN high-speed Wi-Fi 802.11ac service with data rate up to 433 Mbps (FMT3251)
- Concurrent dual-band 802.11n 2.4/5 GHz (FMT3251)
- Simultaneous CS/PS calls
- Auto provisioning & optimization (Plug & Play)
- IP layer timing sync mechanism
- TR-069 remote management and firmware update
- Access control
- Congestion control
- Support handover between macro cell and small cell
- Femto-to-Femto handover
- Supports open, prioritized open and closed access modes
LTE Small Cell

- LTE 3GPP release 9 compliance
- Supports Voice over LTE and CSFB
- LTE dual-band software configurable B3 or B7
- Auto-provisioning & optimization (Plug & Play)
- IP layer timing sync mechanism
- TR-069/196 remote management and firmware update
- Access control
- Congestion control
- Supports handover between macro cell and small cell
- Femto-to-Femto handover
- Supports open, prioritized open and closed access modes
- PoE+ based on the configuration
H(e)NB Dual-mode Gateway

- Scale up to 10K subscriber sessions
- Support IuH/Iu (Iu-flex) for 3G and relay UE-associated S1AP and S1-flex to MME for 4G
- HNB/HeNB access control
- CSG/non-CSG subscriber support
- High Availability (HA)
- Support deployment run in S1 control data only or include S1 data traffic
- Paging Optimization
- Handover support
• HNB/HeNB provisioning
• Security gateway, 3G/4G dual-mode Small Cell gateway management
• Configuration, performance, and fault management
Key Features of Deploying Small Cell solution

- End-to-end small cell solution planning
- End-to-end small cell system integration service
- Complete product line of small cells with LTE, 3G and Wi-Fi support
- Security gateway with a minimum of 10,000 subscriber tunnels
- H(e)NB dual-mode gateway for 3G and LTE network control
- ZyMS (ZyXEL Management System) for centralized management of security gateways and H(e)NB dualmode gateways