



ZEPS

ZTE Evolved Packet System

— Simple Life With Single Network —

What ZTE packet core offers: Multimedia Express, Seamless Convergence, Embedded Intelligence and Green Tech, all those merits bring simple and easy life to everyone

1 Multimedia Express

Mobile broadband with multimedia services is the trend in telecom industry. ZTE packet core is the express to carry ever-increasing multimedia traffic.

- **Large capacity and high performance**

ZTE xGW is the winner of BBWF (Broadband World Forum) InfoVision award in Sept, 2009, one rack configuration can supports up to 24M PDP contexts and 160Gbps throughput.

Node	Capacity	Throughput
SGSN	6M SAU/PDP	30Gbps
GGSN	24M PDP	160Gbps

- **Product series for different scenarios**

ZTE xGW series have different configurations from 4U cabinet supporting 2.4M PDP and 18Gbps to 8 38U cabinets cluster supporting 8*24M PDP and 8*160Gbps. That product series can meet various capacity and cost requirements of different operators.



- **Direct Tunnel**

Flat network with low latency is a step forward to LTE/SAE

- **MBMS**

Complete MBMS features boost the spreading of broadband streaming service

- **All IP networking and perfect QoS guarantee mechanism**

Gb/Iu over IP, single IP backbone for all interfaces, Diff-Serv and rich QoS MIP control features improve user experience and satisfaction

- **High Reliability**

Internal and network level redundancy mechanism eliminate single point failure, SGSN pool and GGSN pool provide double protection for network reliability

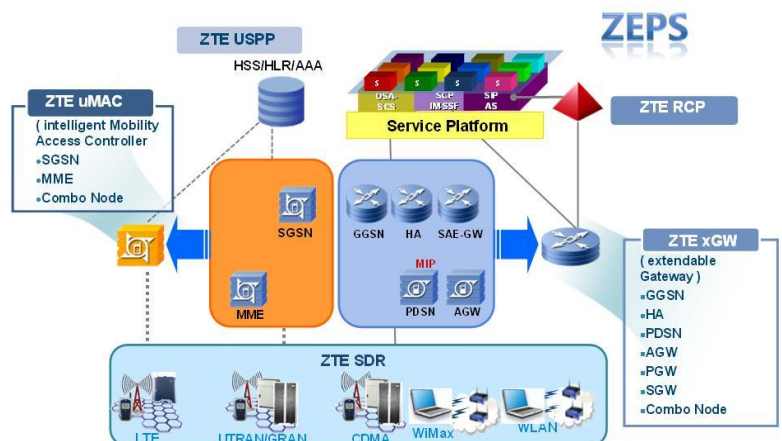
2 Seamless Convergence

ZTE converged packet core is compatible for different radio access technologies and realizes seamless service continuity and smooth evolution.

- **Mature 2G/3G dual-access solution**

Dynamic resource allocation according to 2G and 3G capacities, 2G subs migrates to 3G causes no impact

- **High integrated nodes for both LTE/SAE and legacy networks**





Flexible combination and configuration of different functionalities enabled by ZTE uMAC and xGW:

- ✓ Config options of uMAC : MME, SGSN, MME+SGSN
- ✓ Config options of xGW : SAE-GW, GGSN, PDSN, AGW, GGSN+SAE-GW...

Unified platform protects operator investment and ensures easy upgrade to evolved core

- **Optimized 2G/3G and LTE handover**

Converged core speeds handover between 2G/3G and LTE

- **Non-3GPP access capability**

Converged core provides non-3GPP radio access and facilitates seamless mobility across different wireless networks

3 Embedded Intelligence

ZTE intelligent packet core provides finer management on charging and services according to 3GPP defined PCC (Policy and Charging Control) architecture. It helps operator regaining the leading role in the mobile service value chain and saves network from becoming a dummy data pipe.

- **Deep Packet Inspect for service awareness lays the foundation of charging and service control**

- ✓ Inspection on IP flows from L3 to L7 to identify various services including P2P service
- ✓ Content Based Charging, QoS and service control etc. are easily implemented according to operator requirements

- **Wire-speed packet forwarding by dedicated hardware**

Multi-core Network processor implements embedded DPI function and wire-speed forwarding

- **Open interfaces for easy networking**

Open Gx, Gy interfaces are provided to PCRF and OCS, Policy and Charging Control functions and Online Charging are easily implemented

- **Quick customization for operators' specific requirements**

ZTE intelligent packet core has rapidly and successfully launched for the largest HK mobile operator-Telstra CSL

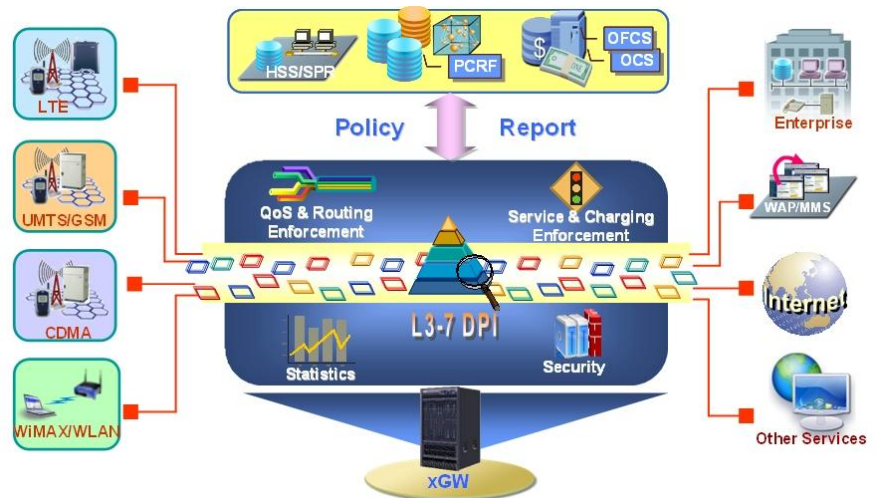
- **Powerful toolkit for easy network optimization and trouble shooting**

ZTE EMS integrates 2 powerful tools: **UBAS** and **OPKey**. **UBAS** can monitor and analyze user behaviors that helps operators to further optimize and improve their network and service. **OPKey** is for signaling trace and problem locating which makes trouble shooting a easy job.

4 Green Tech

ZTE adheres to green and sustainable development. It establishes ISO14001 environmental management system and complies with RoHS.

- **Intelligent power management**





Intelligent board saves power by self-adjusting to traffic statistics, less consumption and emission in idle mode, harmful side-effect is reduced

- **Compact product design**

High integration and compact size save equipment room space and conform to the trend of sustainable developing of green network

- **Comprehensive environmental protection**

- ✓ Uniform all-IP platform extends product life cycle for convenient expansion and evolution
- ✓ Green material and full consideration of environment friendly recycling technology