

Cooperate with China's Largest UMTS Operator in 3G Era

Network Background

China Unicom, one of the three telecom operators, was granted UMTS licenses by Ministry of Industry and Information of China in Jan, 2009. China Unicom has been long dedicated to improving its competitive edge in the fierce competition with the other two operators.

China Unicom has launched the world's largest UMTS network. 334 cities will be covered by the end of 2009 with around 11,500 sites.

The network includes various terrains, scenarios and climate conditions. It is an advanced UMTS network, featuring full HSDPA/HSUPA, 80W PA, and ready for smooth evolution to HSPA+/LTE. To cope with the fast growing capacity requirement, the network should be easy to expand. Most essential to success, this network should help China Unicom reduce TCO significantly.

Trusted Partner

China Unicom operated in both GSM and CDMA network before the reorganization in 2008. As one of the main vendors for its CDMA network, ZTE gained abundant experience and trust from China Unicom. Again, ZTE was selected as a major strategic partner to deploy UMTS network in 17 provinces, taking more

than 20% market share.

As its long-term strategic partner, ZTE supplies GSM and CDMA facilities for China Unicom. In 3G Era, China Unicom focuses on constructing a "Super 3G Network". Together with China Unicom, ZTE keeps on pursuing the development of UMTS and has achieved the following "firsts":

- 2008.11 - first to have implemented 4 carriers with 80W RF output, tested by China Unicom
- 2008.11 - first to have completed China Unicom field trial in Shenzhen, 360 test items passed, which is the best among all the vendors
- 2008.11 - first to have completed

power consumption test of China Unicom field trial in Beijing, the only vendor passed all 20 test items, best performance in 17 out of 20 items

- 2008.11 - first to have completed coverage performance test of China Unicom field trial in Beijing, the only one passed all 18 test items, best performance in 11 out of 18 items
- 2008.12 - first to have made HSPA+ (64QAM) test and traffic reach 20.98Mbps
- 2008.12 - first to have implemented 12 RRUs with one BBU networking

Case Summary

Customer Requirements

- Full HSPA support (14.4Mbps DL rate and 5.76Mbps UL rate)
- Expandable radio capacity, smooth upgrading to 4 carriers with 80W RF power
- Smooth evolution to future technologies: HSPA+ and LTE
- Reduction in energy consumption and TCO
- Fully converged 2/3G core network ,which is based on 3GPP R6 standard

ZTE Solutions

- SDR (Software Defined Radio) base station

- Future-oriented IP solution: All-IP platform and hybrid IP to full IP evolution of transmission
- High efficiency PA, world's leading energy saving technology
- Flexible charging strategy, support online charging and content charging

Customer Values

- UMTS network with full HSPA support
- Readiness for booming traffic
- Smooth evolution progress for future technologies
- Reduced TCO