

ITU-T Workshop

“Mobile Telecommunications and Fixed/Mobile Convergence – the realities going forward”

Abstract

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Title of Presentation: Fixed Network Evolution to NGN, Fixed Mobile Convergence

This document will mainly introduce Huawei company's view on Flexible Mobile Convergent (FMC)

Due to the rapid development of new technology, the requirement for FMC is becoming more and more popular for a lot of telecom network operators. Huawei think the convergent will be first focused on the service., then the network. How to merge the fixed network and mobile network into one convergent network is one big issue to discuss.

From Huawei's opinion, the FMC will be based on IMS; IMS is the convergent core network architecture for both fixed network and mobile network in the future. At present, in mobile domain, the standard about architecture is basically mature; in fixed domain, the standard required to be detailed in this document, Huawei put forwarded a new way to combine traditional PSTN into the IMS architecture, thus to protect the interest of traditional PSTN network operator. Which can meet the requirement that softswitch is mainly for voice, and IMS will focus on multimedia service.

After introducing the architecture, the detailed evolution way for fixed network, mobile network, fixed and mobile network will be discussed. In Huawei's opinion, the current NGN solution will smoothly upgrade to IMS phase, all products only need software upgrade. And current solution will meet the requirement of network migration, and later IMS solution will bring more IP multimedia services, which will enhanced the carrier's network and protect the investment of Network operators.

Operators should deploy FMC according to service-driven strategy. At first, operator should start IMS from introducing those market-proven services, such as PoC, IM, Presence and etc. After spectrum and infrastructure efficiency with IP over the air and end-to-end QoS are improved, telecom-grade FMC should be introduced.