There has been dramatic growth in devices, data and complexity on network infrastructure:

50% CAGR for tablets from 2011 – 2016. The number of smartphones will grow 24% annually and M2M modules will increase an astounding 43%.

70% of the world’s mobile data traffic will be video by 2016, an increase of 25x.

640,000 active cell sites in China. While India has 232,000 cell sites, the U.S. has 260,000.

The unprecedented growth has caused significant challenges:

- Enormous capital investment and operational cost to keep pace
- Unpredictable customer experience
- Challenging management of new and legacy networks
- The need to drive network innovation to enable new sources of revenue

Facing these challenges, CSPs are transforming network infrastructure to deliver cost effective service with agility.

IBM brings the ability to drive network transformation to reduce costs, improve experience, and increase innovation across fixed and mobile, whether physical or virtual.

Innovation in action: IBM delivered a new converged core for a large ASEAN service provider to reduce OPEX and support exploding mobile bandwidth demands.

20% reduction in OPEX by converging multiple transport technologies and networks into a single network and single technology.

Network upgrades, optimization and consolidation
Networking within and between clouds
Cloud based networking
Mobile edge networking
Video infrastructure
Policy: management, control, and networking

Business problem: The client wanted to reduce high operational costs driven by the requirement to managing multiple networks and vendors to support mobile, business and residential services. Additionally, existing networks could not scale to bandwidth demands of customers which resulted in high customer churn due to poor service quality.

Solution: IBM proposed a converged core network to consolidate multiple networks. IBM delivered services to facilitate the integration of the Juniper T4000 and multi-protocol label switching (MPLS) with the network of multiple vendors including Cisco, ALU and Huawei, among others.