

Project Scope

Designing and implementing a NGN IP MPLS network for a Leading Mobile operator to migrate GSM services from legacy infrastructure to the new IP MPLS network.

Customer Overview

- Our customer is a worldwide leading telecommunications provider, covering a wide range of voice and data exchange services, as well as 3G, 4G, ADSL and broadband Internet services.
- They also provide innovative products perfectly suitable for their customers.
- One of the organization's major successes is its superior network, which contains state of the art products and technologies.

Business Challenge

- The current strong competition with other mobile operators requires our customer to develop new service solutions.
- Running GSM services over classical infrastructure reduces the agility to develop new services offering.

How We Helped

Our team and Cisco Advanced Services team worked together along with our customer to design and implement a state-of-the-art NGN IP MPLS network to carry the GSM traffic and to provide added value services. The solution was based on Cisco GSR routers running Cisco IOS-XR. The design blueprint covered the technical aspects such as topology, addressing, ISIS IGP routing, MP-BGP, IP MPLS, Layer 3 VPN, Layer 2 VPN and Quality of Services (QoS).

The migration activities were carefully planned to gradually migrate the GSM services from legacy infrastructure to the new IP MPLS core.

Product List

- 14xCisco GSR routers acting as PE routers
- 3xCisco GSR routers acting as P routers
- Cisco IOS-XR software