Abstract of the presentation « From GSM to UMTS and HSDPA - the BWA solution »

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First this presentation outlines how Orange France designed, rolled out and optimised their networks to provide broadband mobile services.

The architecture and coverage of the Orange France broadband mobile network is described, this network is built on UMTS and EDGE in order to provide broadband services through two radio accesses.

Some characteristics of the Orange France Radio deployment are given. GSM sites have been turned in GSM/UMTS sites.

The different steps of the technical process to roll out and optimise are described: interworking tests, roll out of the equipments on the sites, radio optimisation and test of the end to end Quality of Service.

A focus is made on the radio optimisation process as it is entirely new compared to the GSM radio technology.

The Quality of Service is tested against KPIs (Key Performance Indicators) which describe the customer perception for both circuit switched services and packet switched services.

Some information is given on the Features and Services provided by the Orange France broadband mobile network.

GSM and GPRS Features and Services have been implemented in the Orange France UMTS network. In addition innovative services have been offered for both consumers market and business market.

The UMTS Roaming aspects are described.

We explain how we worked after the commercial opening, in order to improve the Quality of Service in a dense UMTS environment.

Among these different actions a focus is made on the GSM/UMTS interactions.

Then some commercial results are given based on the Orange France experience since the UMTS commercial launch in September 2004.

Finally the technical actions to test and roll out HSDPA services are given.