

CASE STUDY: Mobile Systems Development – Voice Group Call Service

The Challenge:

A major Network Infrastructure provider approached Cell Telecom to provide resources and expertise to perform a feasibility study (for design and test) for the delivery of the Voice Group Call Service (VGCS), specified through 3GPP, intended for the German subsidiary of a large global operator as a solution for Professional Mobile Radio (PMR) also known as Private Mobile Radio.

How We Met the Challenge:

Cell Telecom performed an analysis of the 3GPP specifications for the VGCS and Voice Broadcast Service (VBS) and from them produced design proposals for implementation in the client's Core Network products.

The feasibility activities produced the following documentation for the client:

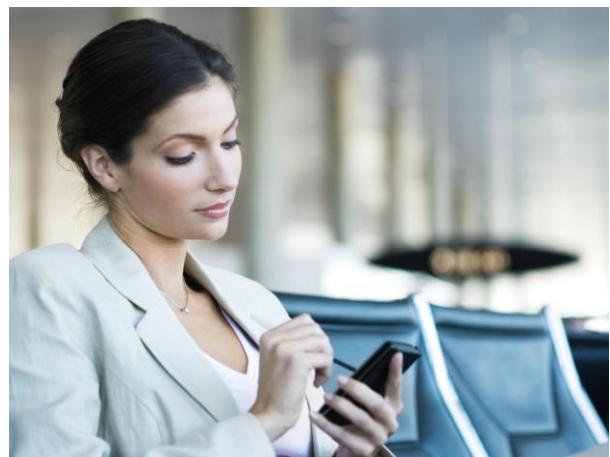
- 3 Implementation Proposals ready for review by the client's Product Committee.
- Test study and test strategy reports for the services.

Expertise in the AXE system and PLEX language was used in conjunction with an analysis of the 3GPP specifications in order to produce the feasibility studies.

The feasibility study documentation was delivered to the client within an aggressive time plan necessitated by the end customer.

Competencies deployed to this task:

- Mobile Switching Centre (MSC) (Anchor and Relay nodes for the services)
- Base Station Controller (BSC)
- 3GPP specifications
- Signalling protocols: MAP, BSSAP and ISUP
- AXE system and the PLEX language.



Telecom Network Development competence areas:

Softswitch, VoIP networks, MSC, BSC, HLR, 3G/GSM, LBS, ISDN, IN, Centrex, 3GPP, ISUP, SIP, SS7, MAP, H.248, HP Mercury Quality Centre (MQC), TTCN, Eclipse, Perforce, ClearCase.