

## CASE STUDY: Mobile Systems Development – HLR

### The Challenge:

Cell Telecom was asked by a leading Network Infrastructure provider to provide the resources and expertise for the development of the Home Location Register (HLR) in a major Mobile Development Project.

### How We Met the Challenge:

Cell Telecom supplied a team of 12 Telecoms experts to assist in the development and test of the new HLR Front End node as part of the Project. The team worked in the customer's offices in Madrid and remotely for the duration of the 8 month assignment. The project involved a major functional change of the HLR software for it to operate in a Layered Architecture environment where the HLR data is stored on a separate commercially available database solution.

The work was required to be completed within extremely tight timescales and this required the adoption of radical design and development methods where coding was undertaken directly from high level design documents. The Cell Telecom team were able to work with these new methods and tight timescales where they designed and implemented a number of functions that included:

- MAP Operation Handling
- Common GAS Handling
- Control of Traffic and Provisioning Processes in Database Blocks

Additionally, Cell Telecom provided test resources that were responsible for the development and execution of Location Based Services (LBS) tests, and also to assist in System Test trouble shooting.

### Competencies deployed to this task:

- AXE Systems
- HLR Architecture
- MAP Signalling
- Clearcase
- Location Based Services
- Proprietary Design Environment
- Adoption of the client's radical Design Methodology



## 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.**