QUALCOMM

Industry: Telecommunications

The Challenge:
Qualcomm is a true innovator, creating various wireless cellular standards for telecommunications. To capitalize on a burgeoning market, Qualcomm needed a DBMS that would allow its Intelligent Base Station Controller (IBSC) to manage hundreds of cells and the corresponding transmitter sites.

Because one true fault can precipitate many apparent faults, real-time fault analysis was also a critical component of the system. Qualcomm’s choice of database would have deep impacts in its real-time fault analysis.

The Objectivity/DB Solution:
Qualcomm turned to Objectivity/DB while it was developing Code Division Multiple Access (CDMA), a breakthrough standard in digital wireless telephone communications which improved voice quality and increased capacity by as much as 20 times.

Qualcomm used Objectivity/DB as the foundation of the management information base [MIB] for its CDMA Intelligent Base Station Controller, in part because of the ability of Objectivity/DB to specify objects cleanly, according to necessary telecommunications protocols. Objectivity/DB was also singled out for its ability to guarantee non-stop operation of the database server because of Objectivity’s capability for transparent distribution of data and its flexible, configurable, data replication option. We were therefore able to save about 3 man-months of programming expenses with Objectivity."