Objectivity Case History

Customer: Qualcomm, Inc. – BSM Case History

Industry: Wireless Communications
Application Domain: CDMA Infrastructure Solution – Sbsc
Status: Deployed – software version 4.0
Platform: Sun Sparc – 30 series / OS – 2.5.1
Compiler: C++
Other Tools: CLI / QMIP

Buying Criteria

Currently the BSM – CDMA infrastructure turnkey solution is the only group making money in the CDMA division. In addition, because of the new Sbsc product they have been able to sell a lot of product and infrastructure in the off-shore Wireless local loop market. Furthermore, within Qualcomm the CDMA Infrastructure division and the Globalstar divisions have merged – to be called COMM Systems. The reason for the merger is to reduce costs while these two divisions are ramping up, hence losing money, because no sales are coming in. The reason why the BSM has been so successful is due to two main reasons, which trend to Objectivity/DB. They are as follows:

1. CDMA has been able to keep far ahead of the product curve in terms of a smaller, more cost-effective Base station manager with the same robust functionality for the local wireless loop markets in second and third world countries. The reason they have been able to add new features, and adapt the product quickly and effectively is due to our versioning capabilities within Objectivity/DB.

2. The distributed nature of our architecture allows the operator in a country who is managing the base station controller to real-time manage all the Base Transceiver Stations (BTSs) within the entire Wireless local Loop infrastructure. Because of our Federated Database they can move BTS databases in real-time which represents a mandatory requirement within this market. For example, in Santiago, Chile the operator of the BSM /CDMA infrastructure system manages 87 BTSs'.

3. Performance – the key competitive advantage in this high-availability market is the response time of call / handling of info which increases caller's acceptance of and satisfaction with this wireless system. Because they are embedded into the BSC which handles the majority of the network element portions of the system, and these objects (values and attributes) have extremely complex relationships performance would be slow if these types of data and relationships were stored in a RDBMS. Objectivity/DB performs extremely well in this setting because of our ability to scale with demand and handle objects which have extremely complex relationships.

Contact Information

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