Objectivity Case History

Steve Fox

Customer Information

Customer: DSC Communications
Industry: Telecommunications
Application Domain: Advanced Intelligent Networking (AIN)
Status: Deployed
Platform: Sun Solaris
Compiler: Sun C++
Other Tools: CORBA

There are two applications that use Objectivity in DSC. The first is a Service Control Point (SCP) that assists the switch in call processing. The second is a Service Management System (SMS) that holds the subscription information for subscribers of AIN services and coordinates distribution of that information to the appropriate SCP's.

Buying Criteria

Performance: In telephony systems, performance is critical. A switching system must be able to handle many simultaneous calls often with sub-second response time requirements. The more advanced features of today's telephony systems, i.e. caller id, time-dependent call routing, etc., have put more and more burden on the systems required to support them, both in data volume and complexity. The performance characteristics of the underlying database were therefore critical to project success.

Reliability: The second aspect of telephony systems is the high availability requirements they impose. It is simply not acceptable to have down time in phone systems *[Ed: which typically mandate 99.999% reliability, or a maximum of 4 minutes of downtime per year].* The reliability of the database was therefore very important to meeting their needs.

Why Objectivity

Scalability: Objectivity's architecture demonstrated a means to maintain performance as the amount of data storage increased.

MROW: Objectivity's Multiple Reader One Writer (MROW) capability proved to be very beneficial to their processing environment. Since the majority of their database accesses were reads that had very tight response time requirements (milliseconds), they could use MROW to guarantee that there would be no delay due to lock conflicts. Even if another process was in the middle of updating the object needed, the call could be processed based upon the last committed version of the object.

Contact Information

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