

Objectivity Case History

Customer Information

Customer: Nortel Networks

Industry: Electronic Data Management/Electronic Software Distribution

Application Domain: Data Distribution System - DDS. DDS enables secure data distribution and data management in a global environment. DDS is designed to allow any small, medium and enterprise system to support many types of electronic data distribution, including electronic delivery of software, synchronization of corporate sites, collection of test or data records, and incremental updates. DDS can also provide support for process automation.

Applications of DDS:

- Software Distribution
- Data Distribution (one source, many destinations)
- Data Collection (many sources, one destination)
- Data Management (example: directory synchronization)
- Patch Management for software releases

Key Features of DDS:

1. Security which includes data encryption, user authentication and firewalls traversal
2. High performance capable of handling thousands of files and gigabytes of data
3. Reliability based on TCP/IP with automatic error checking and notification
4. Multiple Platform Support for Unix and NT.

DDS is an advanced version of EDNA. EDNA is the Enterprise version of DDS.
DDS will be sold in these 4 product offerings:

1. **Single User** - think of an ISP who is servicing a company that has a data warehouse operation with 1 person/1 server. There are 2 nodes, one at the ISP and the other at the Data Warehouse. DDS will provide Software distribution between these 2 nodes. This system will manage a single Administrator and 1 Domain with a flat file storage and retrieval system for simplicity of data use to reduce the technical support infrastructure cost.

Configurations 2, 3, and 4 require the use of Objectivity/DB as the central repository.

2. **Small Configuration:** Multiple Administrators and 1 domain.
3. **Group Configuration** - think of an ISP that is now servicing many data warehouses and they have a team of 20 admin people. They will be doing O/S upgrades, remote software installs, changing NFS mounts, etc.. This system will manage many Administrators and many Domains.
4. **Enterprise Configuration** - think of a company like Nortel and the need to support over 80,000 desktops. This system will manage many groups of Administrators and many Domains.

The core system that requires the use of Objectivity:

- Base Agents
- Package Editor
- Repository for Logging, profiles, etc...
- Transport Manager Agents

Status: Beta Deployment
Platform: HP/UX, Solaris, NT
Compiler: C++

Success with Objectivity

Nortel has deployed Objectivity/DB in the EDNA application for over 3 years internally over the Nortel Corporate Wide Area Network (core-wan).

The DDS project is a direct spin-off to promote this technology to external customers.

"The EDNA project team is very pleased with the reliability of the Objectivity database over the last 3 years" Quoted by Robert Browne - Senior Manager - Advanced Technology.

Contact Information

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