CASE STUDY

CLIENT

DEPARTMENT OF TRANSPORTATION

PROJECT
Project Management
Information System

LOCATION
Minnesota

TOOLS
Oracle Primavera P6

SERVICES PROVIDED
PMIS Implementation
Integration
Data Migration

SEAMLESS MIGRATION

DRMcNatty assisted MnDOT in migrating P6 data from a legacy version to an upgraded version by providing a development environment for step upgrades, integration testing, and UAT. Our team ensured all data connections were properly configured, allowing MnDOT to validate millions of data rows, conduct user acceptance testing, and confirm successful migration.

OVERVIEW

The Minnesota Department of Transportation (MnDOT), requested a vendor to provide an Oracle P6 Enterprise Project Portfolio Management (EPPM) environment and services to migrate a legacy version of P6 EPPM. This solution will include the application, source database, and API-based integration for 2-way dataflow with the MnDOT data warehouse. Primavera P6 will be used daily by the 600 + staff and consultants for MnDOT heavy highway construction project portfolio management.

The current deployment of P6 EPPM includes a mashup from various data sources that is used to populate the Capital Highway Information Enterprise System (CHIMES) and P6_ADMIN schemas in the MnDOT data warehouse. User Defined Fields (UDF) are used to capture additional data and integrate that with the on-premise P6 EPPM database (DB). Stored procedures and packages are used to replace all records (millions of rows) using truncate for ~75 P6 data tables in the P6_ADMIN schema in the warehouse. All of these events and source DB backups are orchestrated on a nightly basis.

APPROACH

DRMcNatty worked with MnDOT to provide a development environment to migrate the P6 data from the legacy version to the upgraded version. Utilizing the development environment, we upgraded the data, set up the integration tests for the data warehouse and provided UAT testing. Once our programming team was able to get all integration connections setup, tested and configured, MnDOT was able to run all tests to make sure all rows and tables were configured properly (millions of rows of data). Once the testing was signed off, MnDOT users performed UAT of the new version of P6 and to make sure all migrated project schedule data converted over properly and users were able to run reports.

RESULTS

After several iterations of testing, migration, and integration, MnDOT signed off on the new environment. DRMcNatty set up an outage window to perform the final migration of data and integration scripts to the new production environment. Within a 36-hour period, MnDOT users were in the new system and ready to proceed with the upgraded version of P6 EPPM, along with the data warehouse, running various reports and collecting the necessary data elements in real-time.

DRMcNATTY