



Data Makes THE Difference

Customer: American Electric Power

American Electric Power (NYSE: AEP) owns more than 36,000 megawatts of generating capacity in the United States and is the nation's largest electricity generator. AEP is also one of the largest electric utilities in the United States, serving more than 5 million customers linked to AEP's 11-state electricity transmission and distribution grid. The company is based in Columbus, Ohio.

Challenge

The obsolescence of PassPort v. 8.0.4 and its integration with other AEP software systems did not represent an optimized solution capable of supporting either the short term or strategic directions of AEP. In addition, certain components of the software were no longer supported and produced unexplainable results, thereby increasing the day-to-day risk of using the application. This all combined to stress the organization's capabilities, negatively impacting current and future business operations.

Regarding Data Quality, there were issues with:

- Incomplete data and orphan records
- Duplicate records and primary keys
- Incorrect data including invalid and outdated information.

Solution

AEP made a strategic decision to upgrade Ventyx's software application and improve overall data quality. In order to enhance data quality, AEP adopted BlueSky Integration's recommended approach to clean data before it is migrated and converted from PassPort to Asset Suite.

To help expedite the effort, DataGlance was the tool used to insure correct parent-child relationships were defined and maintained. BlueSky Integration has a strategic partnership with DataGlance, and has collaborated together on several large data enhancement projects.

Results

The Data Integrity improvement plan involved archiving more than 87 million incomplete or dated records, updating about 250,000 records and deleting over 20,000 records. That represents almost 10 percent of the approximately 879 million data records residing in PassPort.

Benefits of the improvements included:

- Reduced instances of user transaction failures;
- Improved data quality, validity of reports and data searching; and
- Reduced long-term data storage costs.

"With the completion of the final PassPort data cleanup and archiving work, the AEP EAM Project has positioned the implementation of Asset Suite to be more successful. This work helped to improve system performance, particularly with respect to data searches, and helped address some of the data integrity issues that users experienced in the previous PassPort system. Congratulations to the EAM Data Team for completing this significant work on schedule and on scope."

- Mike Isenberg, AEP EAM Project Manager

"One of our team's goals was to migrate improved-quality, correct and relevant data into Asset Suite. These efforts also positively impacted AEP's business intelligence reports and relevance."

- Dan Duffy, BlueSky Integration, Inc. Founder, President and AEP EAM Project Data Team Leader



FAST FACTS

Client

American Electric Power (NYSE: AEP) owns more than 36,000 megawatts of generating capacity and is the nation's largest electricity generator.

Industry

Utility - Generation, Transmission, and Distribution

Geography

11 States including Arkansas, Indiana, Kentucky, Louisiana, Michigan, Ohio, Oklahoma, Tennessee, Texas, Virginia, and West Virginia.

Challenges

- Unexplainable transaction results
- Incomplete data records
- Duplicate records
- Incorrect data

Solution

- BlueSky Integration's approach to clean, scrub and archive data
- DataGlance software tool to associate and relate families of data

Results

- Reduced instances of user transaction failures
- Improved data quality, validity of reports and data searching
- Reduced long-term data storage costs