



# Dai Nippon Printing and ForeFront Leverage Pervasive Connectivity for Fast Reliable Data Synchronization Between JD Edwards and Exact Macola ES

**ForeFront provided Dai Nippon with a single, accurate view of data and saved them \$100,000**

## Challenges

- Synchronize systems to support company merger
- Integrate complex database structures in JD Edwards and Exact Macola ES
- Migration of 25 years of historical data without disturbing current AP and AR data

## Implementation Highlights

- Client gained single, accurate view of data within their enterprise
- Maintained high data reliability
- Extensive Pervasive connectivity saved \$100,000

## About DNP

Japan's Dai Nippon Printing (DNP) is one of the world's largest comprehensive printing companies and coating manufacturers. Over the years, DNP has expanded and diversified its operations beyond publication printing to include packaging, decorative materials, electronic products such as photo masks, and a wide range of information media supplies including imaging software and smart cards.

[www.dnp.co.jp/eng/](http://www.dnp.co.jp/eng/)

## About ForeFront

ForeFront is recognized in the industry as an innovative systems integration company with a solid record of successfully addressing their clients' most complex integration challenges. They are focused on Data Management solutions across industries, both on-premises and on-demand. From data quality, BPM, BI, ERP-SaaS integration to custom Web services, ForeFront implements and integrates proven, best-of-breed technologies to achieve specific business objectives.

[www.forefrontcorp.com](http://www.forefrontcorp.com)

*"It shows the real diversity of Pervasive in that the backend manufacturing system was written on a DB2 platform with a JD Edwards database... On the other side we had Macola written on a SQL Server database... We know that if we're using Pervasive, we have all those different arrows to use."*

– Anne Marie Berger  
Managing Partner, ForeFront

## EXECUTIVE SUMMARY

Due to a company merger, Dai Nippon Printing (DNP), one of the world's largest diversified printing and coating manufacturers, needed assistance moving critical data from its backend manufacturing systems to Exact Macola ES, an ERP solution. Systems Integrator ForeFront met the challenge, leveraging Pervasive Data Integrator's universal connectivity to map complex data tables from JD Edwards ERP on a DB2 platform to Exact Macola ES. ForeFront set ongoing synchronization processes for daily transactions as well as migrating over 25 years of historical data. This integration of highly complex databases with obscure metadata was completed in just three months with high data reliability, giving DNP a single accurate view of the data within their enterprise.

## CHALLENGE: SYNCHRONIZE DATA IN TWO COMPLEX AND WIDELY DIFFERENT FORMATS, AND MIGRATE HISTORICAL DATA

DNP needed to integrate manufacturing and financial systems. The project required moving data dating back to 1985 from a JD Edwards ERP which used a DB2 database to Exact Macola ES which used a dramatically different SQL Server database. The JD Edwards database was very complex with hundreds of tables identified numerically instead of with easily identifiable descriptors such as "product," "inventory" or "customer." This process was further complicated by the fact that the Macola database contained metadata written in Dutch.

The project presented an additional challenge. Migrating historical data through the Macola API without any disruption to existing Accounts Receivable (AR) and Accounts Payable (AP) information was virtually impossible without purchasing additional tools that would cost around \$100,000.

## SOLUTION: FOREFRONT LEVERAGED ROBUST PERSVASIVE CONNECTIVITY

The Pervasive schema mediation technology vastly simplified the otherwise tedious and time-consuming task of creating logical maps and resolving semantic conflicts between hundreds of huge tables that lacked logical naming conventions.

Anne Marie Berger, Managing Partner at ForeFront, commented on the difficulty with putting data in through the Macola API without disturbing existing AP or AR data. “Sometimes, we have to be very adept at moving away from the API that the application gives us and going behind the screens and putting in data in the database. We know that if we’re using Pervasive, we have all those different arrows to use. It’s not just, here’s a connector and this is the only thing you can use. You’ve got tons of different alternatives.”

Using the native Pervasive SQL Server connector, ForeFront successfully brought the historical data into Macola through the back end, with no disruption to the current AR/AP data, without spending an additional \$100,000 on special import software.

Once the initial migration was completed, ForeFront used more traditional Macola API connectivity to establish daily batch transaction updates involving numerous business processes between JD Edwards and Macola.

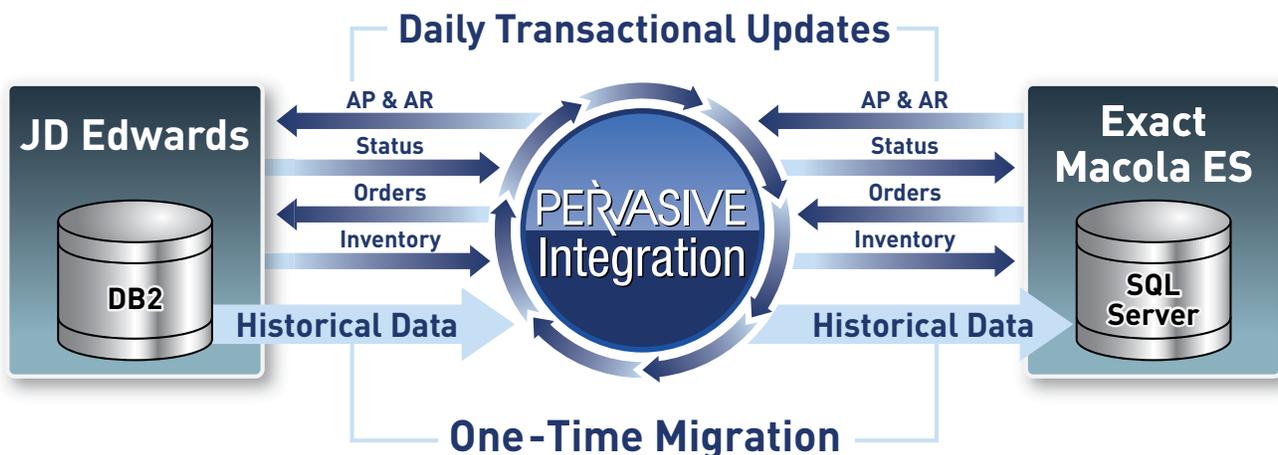
ForeFront completed the one-time migration and set up the ongoing synchronization processes, moving more than 60 objects in just three months, far faster than their client

expected. Data reliability remained high throughout the process and DNP gained an accurate, unified view of their enterprise data as a whole.

## BENEFITS

**Single View of Data.** With a successful migration process, and systems synchronization, DNP gained an accurate view of critical data to successfully merge their business lines.

**Cost Savings.** The extensive connectivity provided by Pervasive gave ForeFront the additional options it needed to quickly complete the data migration without the need for additional tools and associated costs.



### About Pervasive Software

Pervasive Software provides agile data integration software that speeds the flow of data between applications and between organizations. Our robust technology addresses SaaS, SOA and traditional integration modes and allows customers to re-use the same software for integration scenarios that span data warehouses, real-time application integration and data exchange with trading partners.

www.pervasiveintegration.com  
 email: info@pervasivedataintegration.com  
 1-888-296-5969 (North America)  
 1-512-231-6000 (Main Office)

For other international contacts, please visit  
[http://www.pervasiveintegration.com/company/Pages/contact\\_pervasive\\_software.aspx](http://www.pervasiveintegration.com/company/Pages/contact_pervasive_software.aspx)