



Integration that makes sense

Case Study – Novus Europe Logistics B2B Integration

THE COMPANY

Based on decades of research and development at Monsanto, Novus International, Inc. was formed in 1991 and employs over 350 people in more than 20 countries. Novus creates animal health and nutrition solutions based on science. Over 2000 clients in more than 80 countries trust the Novus product family to be an integral part of their daily animal agriculture operations. Novus' mission is "To help feed the world affordable wholesome food." Novus believes in **Performance through Innovation** and employs more than 50 PhD Animal Nutritionists and Doctors of Veterinary Medicine who work continuously to create new products and programs for animal health and nutrition.



THE CHALLENGE

New business initiatives resulted in dramatic increases in the volume of sales orders and shipments in Novus' European operations. Novus Europe managed outbound customer shipments manually, printing and faxing documents, as well as telephoning transporters and warehouses directly to arrange shipping. As Novus experienced continued success in the European market, and especially in the increased order volume of packaged goods, the resources required would soon outstrip capacity of the logistics operation.

Manual effort for each order	Time
Telephone transporter / warehouse	average 5 - 10 minutes
Printing docs	average 5 - 10 minutes
Filing documents	average 5 minutes
Fax documents	average 4 minutes
Total Range	19 - 29 minutes

Table 1. Novus Europe handles about 5,000 orders annually and spends about 25 minutes on manual processes for each order.

Although most of the 13 warehouses and 16 transporters wanted to communicate with Novus electronically, many did not have the required infrastructure. A change like this would require effort on their part to implement an integration solution. There was no funding for the trading partners' projects. Each project needed to be perceived as beneficial to the warehouse or transporter as well as to Novus.

Business Integration Technology, Inc.

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BUSINESS INTEGRATION TECHNOLOGY, INC.

The Novus solution is able to process two inbound business documents: Load Tender Response and Ship Notice. It also processes three outbound business documents: Load Tender, Shipment Instructions, and Certificate of Analysis, along with Receipt Acknowledgments for each of the outbound documents from the trading partners. All business documents are viewable from a "Business Documents Processor" (BDP) application. The solution implements XSL documents to produce user-friendly HTML for viewing these documents. All business documents will adhere to CIDX standards and are schema-validated when entering and exiting the solution. CIDX protocol is followed for capable trading partners including XML enveloping and exchange of receipt acknowledgements. Trading partner documents are transformed to Novus enterprise format before being stored in BDP.

THE RESULTS

BIT worked closely with both Novus Europe and Novus Information Technology to meet the challenges of each trading partner and integrate them into the enterprise process. BIT made sure that Novus Europe's users and Novus Information Technology had the information and training necessary to monitor and operate the system.

Business results for Novus Europe:

- Reduction in manual effort
- Real time update
- Increased accuracy of data
- Existing staff can handle future growth
- Existing staff can spend more time assessing other opportunities for business productivity and growth

Business results for Trading Partners:

- Reduction in manual effort
- Real time update
- Increased accuracy of data

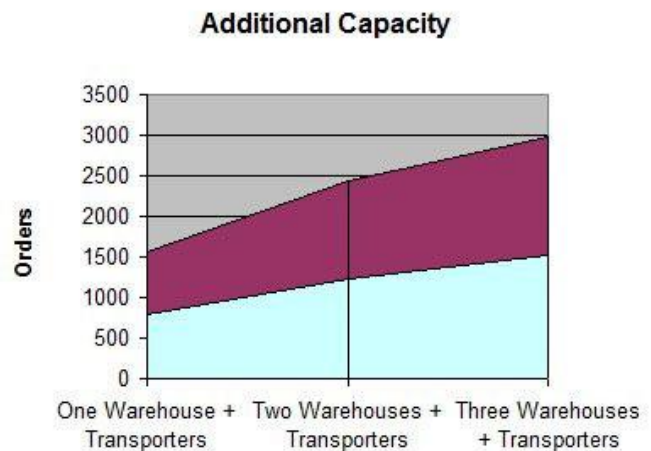


Figure 2 - This chart shows the range of additional capacity created by implementing one, two, and three of the initial warehouses with their associated transporters.

Novus estimates that the initial implementation will enable the European Logistics office to accommodate order growth of 1,000 to 1,500 orders per year without additional staff. Additional integrations will create additional capacity.

Other than delays caused by the trading partners that impacted their respective go-live dates, BIT brought the project in "on time and on budget." There were a few features added along the way with very minor impact on cost. "BIT allowed us to implement an integration solution for Novus Europe while building the foundation for an Enterprise Service Bus for all future internal integration," said Rick Baseley, Novus IT. BIT's work at Novus International has positioned the company for the future, allowing them to add further electronic integration more easily and more efficiently than in the past.

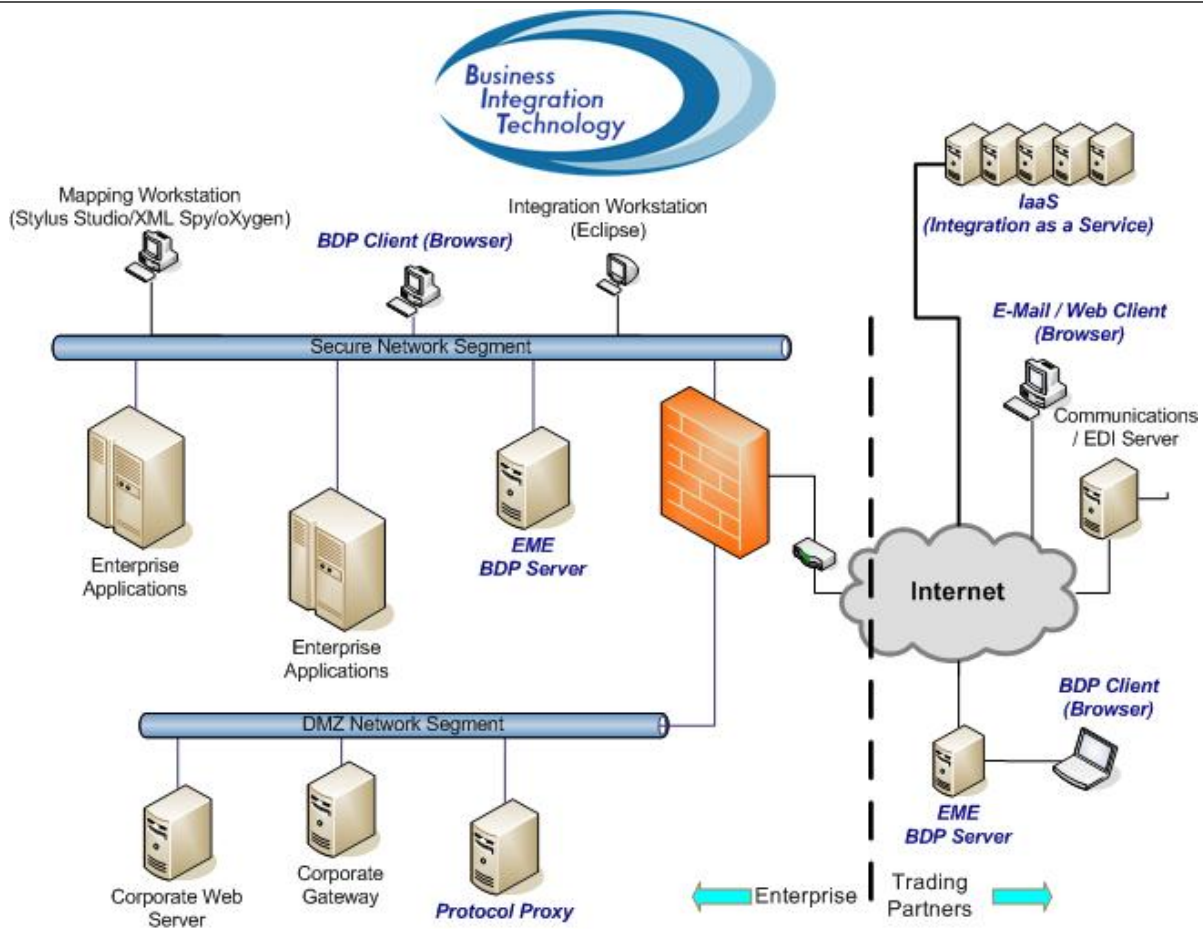
"We'll choose BIT again because of their excellent work on the project. They now have a proven track record at Novus International."

- Rick Baseley, Novus IT

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About Business Integration Technology, Inc.

Business Integration Technology Inc. (BIT) is a leader in B2B integration technology for transportation, logistics and supply chain management. BIT designs and implements highly cost-effective business-to-business connections that eliminate the costs of doing business with paper, phone and fax, bringing innovative value to shippers, carriers, 3PLs and companies looking to improve cycle time and reduce cost.

BIT was founded by the team that built the messaging engine that runs North American Rail. BIT is also a partly-owned subsidiary of Daugherty Business Solutions, a firm with over 20 years of experience helping their clients achieve their business objectives through the effective use of leading information technology and more than 400 consultants in St. Louis, Atlanta, Minneapolis and Chicago.

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