



## At a Glance

### Client

A global provider of manufacturing solutions to improve process performance and productivity

### Challenge

Data silos and manual processes made it difficult and time consuming to access historical data to drive timely business decisions

### Approach

Infinite integrated data from 15 different sources and formats into a single version of truth across multiple departments for reporting and business analytics

### Results

- Easier, faster access to historical data for better business analytics
- Improved time-to-market by up to four weeks
- Increased productivity due to elimination of manual tasks
- Cost savings of more than 10%

## Infinite’s Analytics Solution Saves Time, Reduces Costs, and Increases Productivity for a Global Manufacturing Company

### The Challenge

A global provider of manufacturing solutions was exploring new strategies to serve the unique needs of customers in the emerging next-generation smart factory. However, management had difficulty extracting the historical analytics and reports they needed to predict future business trends and make timely business decisions. The company’s data from 15 global markets was captured in many different formats and stored in multiple disparate, siloed systems. Since there was no global view of the data, nor a single version of truth, the accuracy of the data on which to base analytical insights was questionable. It was nearly impossible to manage historical data from the past 5 to 10 years. In addition, the company used Microsoft Excel spreadsheets to manage current reports and historical data alike, which was a tedious and time-consuming manual process.

The manufacturing company sought to deploy a new technology stack that would consolidate all of its data in a single data warehouse to simplify accessibility, maintenance, and processing for users across all departments. Management also wanted to improve data validation from source to target to ensure the accuracy of all reports for better business analytics. Infinite Computer Solutions stepped up with the Infinite Analytics Enabler solution

to help the company eliminate manual processes, improve data accessibility, reduce costs, and accelerate time-to-market.



### The Approach

Infinite integrated all of the manufacturing company’s data from 15 distinct sources into a single, consolidated data warehouse to make it easier to connect and control both current and historical data. The solution was built to ensure data accuracy for a single version of truth, as well as enhanced security and self-servicing capabilities to enhance the end-user experience.

Infinite approached the company’s challenges holistically, using a mix of Microsoft SQL Server, Informatica 9.6.1, Tableau, SAP HANA 2.0, SAP



Business Objects and SAP Analytics Cloud to build and deploy a data warehousing and analytics solution with the ability to:

- Implement a system to perform data analysis to address specific business needs
- Provide a consolidated view of over 150 dashboards with custom visualizations and increased granularity
- Develop a robust and scalable Extract, Transform & Load (ETL) architecture, with design and data modeling capabilities
- Build a scalable enterprise warehouse solution that supports end-to-end data reconciliation
- Establish a system for differential diagnosis to assess database and ETL health to support auto-correction of errors and easy data integration

Infinite's analytics solution serves five functional areas of the business – Operations, Sales, Services, Quality, and Inventory. The project was completed in phases by providing each functional area of the business with the unique key performance indicators (KPIs) to enable users to quickly search for and access data in the format they need for their reports. As a result, each department can now build reports on their own in much less time and without the previous manual processes to navigate multiple systems and convert file formats.

### The Results

Today, the company has greatly improved the user experience in accessing and managing reports and historical data through role-based data security to drive accurate and timely business analytics. Because the new analytics system automatically transforms data into the format needed by the user, all users across all functional areas of the company can access a single version of the truth.

In addition, because the company has a full, global view of historical data from the last five years, management has been able to produce analytics that drive an improved production plan to bring products to market faster. The company has reduced time-to-market by approximately four weeks for each six-month product build time, making the company much more responsive to customer needs and market trends. For example, management now has faster access to analytics that can more accurately predict future sales performance based on historical data from the previous year.

In another example, managers in the company's operations area can retrieve metrics on turnaround time for servicing customers' products to see where they can improve operational processes and the customer experience.

Overall, Infinite's analytics solution has helped the company gain significant time and cost-saving benefits:

- Increased productivity by eliminating manual tasks – 12% effort saved for every 11,000 man-hours spent
- Achieved savings of approximately US\$33,000 for every US\$300,000 spent
- Reduced time-to-market to 3-4 weeks within every six-month product release cycle
- Increased data accuracy and reliability

To support this customer's future roadmap, Infinite continues to work with the company on data profiling, quality, and reliability projects, as well as on evaluating new technology for simplified data processing and maintenance.

### About Infinite Computer Solutions

Founded in 2001, Infinite Computer Solutions is a global digital technology solutions and services provider, headquartered in Rockville, Md. with more than 10,000 employees and half in the United States. The company provides proprietary frameworks, platforms, accelerators, and domain experts to deliver technology solutions and product engineering services for Healthcare, Banking & Finance, Telecommunications & Technology, Media & Publishing, Public Sector, Government and Consumer service industries. For more information, please visit [www.infinite.com](http://www.infinite.com).

### For More Information

To learn more about our Application Development Case Study contact us at [sales@infinite.com](mailto:sales@infinite.com) or visit [www.infinite.com](http://www.infinite.com).