



Let's Solve

Case Study

Real-time Lot Tracking Solution Speeds Logistics for Semiconductor Company



A Larsen & Toubro
Group Company

Client

Leading semiconductor manufacturer with design, research and development, manufacturing and sales operations in more than 75 locations in 19 countries

Challenges

- Manufacturing sites distributed globally, with each site capturing storing transaction data in local data warehouse
- Global visibility of semiconductor lots was missing
- Since the data is scattered, the planning community had a tough time searching out current inventory for a particular part
- Time-consuming traceability, involving high manual effort

LTI Solution

LTI helped to improve their business and IT processes, by capturing data across various systems.

- Defined new business processes to address the gaps when the lot is moved from one plant to another (accurate in-transit info capture).
- The new solution (called "Lot Master") provided near real-time visibility of PO (vendor details), sales orders, manufacturing lot information, shipment information.
- Detailed lot traceability information from vendor to customer in enterprise data warehouse (EDW).
- Enhanced visibility into fulfilment of sales orders to the logistics team, which helped predict the material availability dates more accurately.
- APIs were developed using real-time data, improving inter-site transfers from one plant to another.

Business Benefits Delivered

- Reduction in response time to customer quality incidents from 7 days to 1 hour.
- SCM planning / optimization engine run-time reduced from 32 hours to 8 hours, saving ~one shift of planning run, since inventory is extracted from single source.
- Automated extraction framework reduced the development hours for outbound extracts to downstream applications from 24 hours to 8 hours.

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