Case Study
Real-time Lot Tracking Solution Speeds Logistics for Semiconductor 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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