

Technical Profile

GXS Logistics Network

Comprehensive Trading Partner Connectivity and High Quality Logistics Information

The GXS Logistics Network from GXS is a ground-breaking logistics service that connects companies to transportation carriers and other trading partners and then applies logistics-specific data quality rules, tools and people to transform raw trading partner data into meaningful information.

The GXS Logistics Network is a process specific service in the GXS Trading GridSM that covers logistics processes from order and shipment visibility to freight booking and settlement across all modes including air, truck, ocean, rail and parcel. The Logistics Network provides dependable and actionable logistics information to power applications and decision-making across your organization.

Specifically, the Logistics Network is comprised of the following:

Order Visibility provides information on orders prior to shipment, while in-transit, and at receipt. This functionality supports decisions such as order promising and inventory planning.

- **Order Create and Update**—By connecting to any order source such as order management or materials management system
- **Order Types**—Includes types such as purchase order, sales order, material move request and replenishment
- **Order Detail**—Includes data such as order number, terms of sale, item number and quantity

Shipment Visibility provides information on in-transit shipments including:

- **Shipment ASN and Updates**—Mode, origin, destination, carrier and proof-of-delivery
- **Orders**—Order number, line items, quantities on each shipment
- **Case/Carton**—Carton number, items, quantities, batch, lot and serial number

Consolidator Visibility provides information on inventory at consolidators. This functionality also supports decisions on shipment consolidation and product availability including:

- Orders, items, shipment tracking number, ship date and status (booked, received, shipped)



A logistics specific service in the GXS Trading GridSM, the GXS Logistics Network delivers high quality, value-add logistics information at an affordable cost and with short time to benefit.

WITH THE GXS LOGISTICS NETWORK YOU CAN FINALLY:

- Easily connect beyond the four walls of your enterprise to trading partners such as suppliers, forwarders and carriers
- Have clean, reliable and actionable logistics information
- Access a centralized source of high quality logistics information
- Power visibility, logistics execution and other enterprise applications such as CRM and ERP

Logistics Execution provides information on freight booking and settlement. This functionality supports the automation and accuracy of logistics execution applications including:

- **Freight Booking**—Carrier, mode, origin, destination, service level, pick-up and delivery dates
- **Freight Settlement**—Planned and actual amounts, origin, destination and service level

Mode Support—The GXS Logistics Network captures information on product movement regardless of mode: air, truck (TL, LTL), ocean, rail, and parcel.

Message Support—The GXS Logistics Network has certified in-network coverage, regardless of mode, for logistics process steps and message types including:

- **Order Visibility**—Order create, acknowledgement, update (e.g. EDI 850, 855, 860, 861, 870)
- **Shipment Visibility**—Create and update (e.g. EDI 856, 214, 240, 315)
- **Freight Booking**—Request, accept and change (e.g. EDI 204, 300, 301, 303, 990)
- **Freight Settlement**—Create and update (e.g. EDI 110, 210, 410)

Trading Partner Connectivity

Pre-Configured Connections—The GXS Logistics Network contains a growing network of thousands of logistics connections to the world’s leading suppliers, transportation carriers, brokers, freight forwarders and other trading partners. This provides quality logistics information to your applications in as little as 30 days.

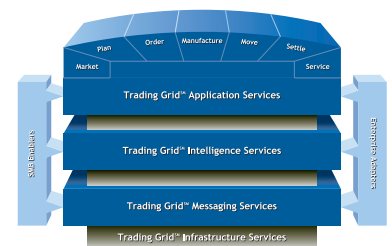
On-Boarding Methodology—The GXS Logistics Network provides a proven process for rapidly and cost-effectively adding new trading partners, as well as connecting to internal enterprise systems. This includes an assessment of capabilities (e.g. EDI), development of data maps and an evaluation of data quality in test messages.

Connection Flexibility—Connect to any trading partner regardless of their level of technology capability through a variety of options such as XML, EDI and web-based forms. You also have the option of extracting any information from the Logistics Network to power any trading partner or internal enterprise system including Enterprise Resource Planning, Order Management or Data Warehouse systems.

Data Quality Management

Without timely, accurate and complete data from transportation carriers, brokers, forwarders, suppliers and other trading partners, a company cannot begin to appreciate the benefits of their supply chain technology investment.

Traditional means of integration to transportation carriers and other trading partners typically delivers data quality levels of just 50 percent—insufficient for effective decision-making. While



As part of the ground-breaking GXS Trading GridSM, the GXS Logistics Network focuses exclusively on providing an automated, consistent flow of timely, accurate and complete information on orders, shipments, booking, tendering, shipment invoices and payments. GXS Trading GridSM offers a pre-configured network of tens of thousands of trading partner connections and also offers a proven methodology for quickly and cost-effectively enabling trading partners anywhere in the world and integrating to internal enterprise applications.



many trading partners will validate that the information they send is syntactically correct (provided in the appropriate format), most are not equipped to validate the timeliness, accuracy or completeness of their data.

To address the challenges our customers have faced with data quality management, GXS delivers the highest levels of data quality through a combination of technology and people.

Technology

The GXS Data Quality technology offering includes three key components:

Data Quality Business Rules—To ensure that trading partner data processed into the GXS Logistics Network is of the appropriate data quality, GXS leverages 550 customer-configurable business rules created to ensure data integrity. These logistics-specific rules include:

- **Code Validation**—Used to verify the validity of a multitude of codes including vendor codes, location codes, time zone codes, activity codes and unit of measure codes
- **Required Fields**—Ensures that data is provided within a given field and that the information provided within this field is accurate
- **Dependent Values**—Ensures that all appropriate information is provided within a message
- **Referenced Values**—Validates that an order referenced is a valid order

Data Standardization—Most trading partners have their own internal system codes for locations, countries and even vendors. The data standardization functionality enables companies to associate each trading partner's unique codes to their own standard company codes.

Data Error Resolution Tool—This is an online tool for the management of data quality issues as highlighted by the Data Quality business rules. This tool enables users to quickly and easily resolve errors for a specific message transaction or all messages with the same error. The tool also generates reports to identify the root cause of data quality issues.

Services

Data Management Services™ (DMS) from GXS provides daily monitoring and management of all transactions across the Logistics Network. Acting on a customer's behalf, a dedicated DMS analyst will serve as the ongoing point of contact with transportation carriers, brokers, consolidators, suppliers and other trading partners to ensure the highest levels of data quality. With DMS, companies outsource their data management to an experienced team of GXS logistics analysts so that they can focus on running their business.

DMS includes a Data Quality Program that is established and customized for each customer. This program includes the assignment of a dedicated DMS logistics analyst to:

- Define the data quality metrics that will be used to measure current and target data quality levels
- Identify, track and resolve data quality issues on a daily basis.
- Monitor and report on data quality performance including evaluating current levels of trading partner data quality against data timeliness, accuracy and completeness targets

HIGHLIGHTS

The GXS Logistics Network coverage includes:

- 85 percent of the top 15 ocean carriers
- 85 percent of the top air cargo carriers
- 75 percent of the world's top 20 logistics and transportation groups
- 65 percent of the top 100 LTL carriers
- 50 percent of the top 3PLs

TIME TO MARKET

Through the use of in-network trading partners, quality information can be available in as little as 30 days.

GLOBAL COVERAGE

The Logistics Network currently connects to logistics information in over 65 countries and is accessed by users in over 20 countries through applications such as GXS Logistics Visibility™, GXS role-based views, CRM self service, and ERP customer accounts billing.

- Manage trading partner relationships
- Implement trading partner performance improvement programs

Data Enhancements

Dynamic ETA™—For the first time you can confidently promise delivery for a production schedule, arrival at warehouse or delivery to customer. Dynamic ETA is a forecast of activities, events and dates that are expected to occur over the life of each order and shipment. It continuously updates downstream activity date forecasts as real world events occur (e.g. customs delay).

Reverse Pipeline™—Through Dynamic ETA functionality, if you provide the GXS Logistics Network the desired ETA for an order, it will “reverse” calculate and forecast an accurate “must ship” date, as well as accurate dates for all events prior to the ETA.

Order/Shipment Correlation—The GXS Logistics Network correlates related records (orders, consolidator bookings, shipments) based on common information. The Logistics Network then enriches each record with this information. For example, an order record is updated with item quantity shipped from the shipment record.

Quantity Roll-ups—For each order in the Logistics Network, the system can total quantities over time for an item within an order. For example, if an item on an order shipped multiple times, the order will contain the original item ordered quantity, the current total shipped quantity and the remaining unshipped quantity.

About GXS

GXS is a leading provider of B2B e-commerce solutions that simplify and enhance business process integration and collaboration. Organizations worldwide, including 75 percent of the Fortune 500, leverage GXS’ GS1 certified global interoperability and supply chain execution solutions. Active in the global standards arena, GXS offers solutions, powered by the Trading GridSM, that enable customers both large and small, to connect with global partners, synchronize product information and optimize the execution of supply chains.

Headquartered in Gaithersburg, MD., GXS provides sales and support to businesses and their partners worldwide. For more information about GXS visit www.gxs.com.



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DATA QUALITY CRITERION

GXS Logistics Data Management Services group manages the trading partner connection through evaluation of:

- **Data Volume**—Messages expected to be sent from a trading partner compared to the actual number
- **Data Timeliness**—With respect to the delay between an actual supply chain event occurring and the transmission of the related message
- **Data Accuracy**—The accuracy/ correctness of the information received within each message
- **Data Completeness**—The completeness of data on a field-by-field evaluation
- **Data Matching**—Evaluation of the accuracy of key field information provided compared to existing key fields within the application

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