



X12 Electronic Data Interchange (EDI) GS1 US Version 7020 Implementation Guidelines - Summary

Facts

Target Audience

The users of these documents are the GS1 US member companies who exchange electronic commerce information using EDI implementation guidelines developed under UCS, VICS and IC industry groups. Specifically:

- Upstream manufacturing companies in the Industrial/Commercial (I/C) sector who use the subset of the ASC X12 EDI standards.
- Food and Beverage distribution and warehousing companies who use the Uniform Communication Standard (UCS), a computer-to-computer data exchange standard.
- Retail companies who use the Voluntary Interindustry Commerce Solutions guidelines.
- GS1 Canada Healthcare and Foodservice Companies

Created by the GS1 US X12 Requirements Group

A cross-industry user community comprised of the following companies: Unilever, NBTY, Eltech, Maines, Eli Lilly, Malt-o-Meal, Libman, Technicolor, Target, P&G, Elixir Distribution, Amerinet, Nordstrom, US Foodservice, General Mills, AHOLD/StopNShop, Kimberly-Clark, Levi Strauss & Co., Simon & Schuster, Publix, LEGO, Lowes, Dillard's, CVS, Pepsi Beverages, SPS, Walgreens, GS1 Canada and GS1 US.

Why?

The new v7020 EDI implementation guidelines have been updated to reflect industry-approved enhancements that support today's unified business processes and digital-savvy consumers.

What's New?

1. Introduction of the [892 Trading Partner Performance Measurement](#) transaction set - Allows a trading partner to indicate a level of service desired and/or achieved, for specifically identified performance objectives
 - o Applicable for parties who wish to share goal and performance information in order to fine-tune their levels of services
 - o Up to 17 key business operational metrics, such as on time delivery, item master data accuracy, forecast accuracy, on time delivery, out of stock and sales growth. These 17 metrics are as follows:
 1. Finished Goods Inventory Cover - **Description:** The amount of finished goods inventory at the stocking location(s) in terms of the estimated daily demand.
 2. Forecast Accuracy - **Description:** The mean absolute percent agreement of the forecast with the actual sales, receipt or shipment quantity, expressed in unit volume or monetary terms.
 3. Invoice Accuracy - **Description:** The percentage of seller invoices deemed accurate out of all invoices received.
 4. Item Data Synchronization - **Description:** The percentage of items (including applicable trade item hierarchy) published and sold from the seller that are synchronized by the buyer via the Global Data Synchronization Network (GDSN) or other defined electronic commerce interface.
 5. Item Master Data Accuracy - **Description:** The percentage of items with accurate physically measured dimensions and weight attributes (as provided by the seller) of all items that were physically verified.
 6. Markdown - **Description:** The percentage of monetary sales that were sold below the normal retail price. Includes seasonal clearance, discontinuation, employee discount, response to competitive activity or other retailer-initiated price reductions.
 7. On Time Delivery - **Description:** The percentage of shipments that arrived on the receiver's premises within the agreed date and time, out of all shipments that were delivered. The first scheduled appointment date and time is the recommended agreed date and time.
 8. On Time Payment - **Description:** The percentage of payments made within a seller's terms of sale out of all payments received.
 9. Order Item Quantity Change - **Description:** The percentage of orders placed by the customer in the trading relationship that required changes in items or item quantities prior to release.



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10. Order to Delivery Cycle Time - **Description:** The average length of time between order placement and the time product arrived and was available for unloading at the agreed customer location.
 11. Out of Stock - **Description:** The percentage of items that is not available at their expected stocking locations out of the set of item stocking locations that were evaluated.
 12. Retail Gross Profit Margin - **Description:** The average percentage amount a retailer will profit per item or group of items sold to a consumer after deducting operating expenses.
 13. Sales Growth - **Description:** The percentage increase in monetary or unit sales compared to an equivalent time period one year prior to the period being measured.
 14. Service Level Fill Rate - **Description:** The percentage of product that a buyer received or the seller shipped compared to the original ordered quantity.
 15. Share - **Description:** The percentage of sales of a subset of items and/or locations in a broader market context, which can be defined in terms of a product category, class of trade or geography.
 16. Unsaleables - **Description:** The percentage of products that were removed from the primary channel of distribution due to damage, expiration, discontinuation, seasonality, promotion completion or defects.
 17. Retail Item Gross Margin - **Description:** The average percentage amount a Retailer will earn for an item sold to a consumer before deducting operating expenses
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2. Introduction of multi-language & extended character support for companies that send X12 EDI to companies in foreign countries
 - o Support for additional languages, beyond English, including languages spoken in Northern Europe, Central Europe, Eastern Europe, Southern Europe, the Baltic Rim, and Asia.
 - Accommodates 14 ISO graphic character encoding schemes
 - o Support for additional special characters used in product descriptions
 - Trademark ™
 - Copyright ©
 - Registration ®
 3. Enhancements to the [850 Purchase Order](#) transaction set
 - o Enabling identification of golf clubs as part of the order process.
 4. Enhancements to the [832 Price/Sales Catalog](#) transaction set
 - o To support data synchronization, including new data components in support of marketing, biomedical hazard, organic certification, product packaging markings, product packaging types, growing methods, mineral claims, vitamin claims, nutrient claims, allergen claims.
 - o To support omni channel retailing, enabling more product information to be made available for improved consumer online buying decisions for apparel and shoes.
 - o Supports R1 and R2 GS1 US Apparel and General Merchandise Guideline for Exchanging Extended Attributes
 - o Details: product catalog support to enable trading partners to better meet customer expectations, E.g.,
 - **Yes/No Questions (YNQ)**
 - Packaging material, Batteries, Biodegradable, Unit Type, Biomedical Hazard, etc.
 - **Product/Item Description (PID)**
 - **Food & Related:** Growing Method, Mineral Claims Name, Vitamin Claims Name, Nutrient Claims Name, Sterilization Method type, Allergen Claim, Drug Product Identification, Genetically Modified Ingredients (Note: This is part of data alignment using EDI.)
 - **Apparel/Omni Channel:** Collar/Neck Type, Closure Type, Fur Animal Name, Fur Animal Treatment, Lining Material, Shoe Sole Type, Team Name
 - **Sports:** Golf Clubs
 - **Measurements (MEA)**
 - New guidance on handling apparel and footwear measurements
 - o Heel Height
 - o Inseam
 - New guidance on handling product nutrition measurements
 - **New guidance for packaging (PKG)**
 - Perishable packaging
 - Component breakdown
 - Environmental markings
 - **Text (MTX)**



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- Environmental Conditional Description
 - Nutritional Requirements
 - Safety Measures
 - Undesirable ingredients
 - Serving description
 - Safety measures (Note: Supports data alignment w/ EDI transaction.)
5. Reporting Enhancements to the [856 Ship Notice](#) (UCS)
- Vendor Name Reporting
 - Temperature Recorder Serial Number
 - Dispute Resolution Corporation Number
6. Introduction of the [Buyer Managed Transport](#) (I/C) transaction sets - Transport Movement Controlled by the Buyer (Note: This is a set of new guidelines in support of Buyer Managed Transport.)
- 754TB Routing Instructions
 - 850TB Purchase Order
 - 855TB Purchase Order Acknowledgment
 - 860TB Purchase Order Change – Buyer Initiated

Learn More Links

- GS1 US (EDI) *members-only* library - <https://members.gs1us.org/Members-Only-Reference-Library/GS1-US-EDI>
- EDI 7020 Implementation Guideline (*members-only library*) - <https://members.gs1us.org/Members-Only-Reference-Library/GS1-US-EDI/EDI-X12-Standards?EntryId=4351>
- GS1 US Business Process Guide for Electronic Data Interchange (*members-only library*) - https://members.gs1us.org/Members-Only-Reference-Library/GS1-US-EDI/EDI-X12-Standards?EntryId=4435&Command=Core_Download&method=attachment
 - The GS1 US Business Process Guide for Electronic Data Interchange provides a comprehensive review all business processes accommodated in UCS (Uniform Communication Standard for food and beverage), VICS (Voluntary Interindustry Commerce Solutions for general retail) and IC (Industrial Commercial for manufacturing and upstream) businesses. EDI transactions and processes covered include product planning, data alignment, order-to-cash, payment, warehouse, transportation, and direct store delivery. The document includes an overview of each business process and the transactions that are used to convey information amongst the trading partners.
- The [GS1 US Trade Item Identification and Communication Guidelines \(TIIC\) for Electronic Data Interchange \(EDI\)](#)
 - The TIIC document was developed originally under VICS.
 - It provides detailed instructions for loading product information to a catalog using the 832 Price/Sales Catalog transaction set.
 - The TIIC guideline has been updated recently to reflect enhancements for providing:
 - Product image information
 - Enhanced apparel information supporting the omni-channel business process
 - Non-substantive changes made – changes made to accommodate support for R1 and R2 GS1 US Apparel and General Merchandise Guideline for Exchanging Extended Attributes
- Next Release - Pertaining to the 832 transaction set and TIIC Guideline, the next versions are tentatively scheduled for Nov '16 (TBD)