2006 B2B Customer Conference
B2B – Catch the Next Wave

Overview of the GS1 XRG

Standards Maintenance Process

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X12 Requirements Group (XRG) - Purpose and Scope

- **To develop and maintain GS1EDI implementation guidelines and supporting documentation based on ANSI X12 standards for ➔**

    ➢ UCS (Uniform Communication Standards)

    ➢ VICS (Voluntary Inter-industry Commerce Standards)

    ➢ I/C (Industrial Commercial EDI Guidelines)

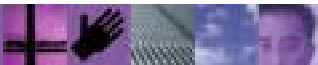# X12 Requirements Group (XRG)

- Continues to maintain GS1 EDI implementation guidelines and industry conventions for:
  - Retail Industry (VICS)
  - Food and Beverage (UCS)
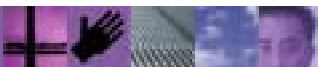 - Industrial Commercial (I/C)

X12 Requirements Group (XRG)

- Also maintains a variety of specific industry guidelines and profiles the list of which continues to grow:
  - Convenience
  - Beverage
  - + other

X12 Requirements Group (XRG) - History

- Early grocery UCS (Uniform Communication Standards) developed under TDCC (Transportation Data Coordinating Committee).

- UCS transaction sets eventually migrated to ASC X12 based syntax.

- Support for UCS Standards Maintenance Committee (SMC) provided by UPC Council in Dayton which ultimately became the Uniform Code Council (UCC).

X12 Requirements Group (XRG) - History

- WINS (Warehouse Information Network Standards) developed to support exchanges with public warehouses and ultimately merged into UCS.
- General Retail adopted an ASC X12 based transaction model and the VICS EDI Standards Maintenance Committee was created under UCC.
- GEDI (Global Electronic Data Interchange) Committee formed to develop and maintain EANCOM guidelines utilizing EDIFACT messages.

X12 Requirements Group (XRG) - History

- Industrial/Commercial (I/C) EDI guidelines developed and the I/C Standards Maintenance Committee was formed.
- Over time a variety of industry initiatives contributed to the development of additional guidelines such as UCS for Direct Store Delivery (DSD).
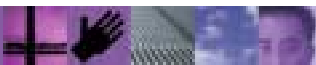
X12 Requirements Group (XRG) - History

- UCC EDI SMC's disbanded when the Global Standards Maintenance Process (GSMP) was created.
- EANCOM technical maintenance under GSMP TDT (Technical Development Team) while business information content is handled by the Business Requirement Groups (BRG's).
- X12 based standards considered regional (North America) so a separate committee, the XRG, was formed to accommodate maintenance.

X12 Requirements Group (XRG) - Activity

The XRG at work

X12 Requirements Group (XRG) - Activity

- **Types of changes the XRG works on ➔**

  - ➢ Code changes – existing codes defined for use and new codes obtained through X12 as required.

  - ➢ Segment changes – existing data elements specified for usage within the guidelines and new data elements obtained through X12 as required.

X12 Requirements Group (XRG) - Activity

- **Types of changes the XRG works on ➜**

  ➢ Transaction changes – to provide enhanced functionality existing segments are specified for usage within the guidelines and new segments obtained through X12 as required.

  ➢ Guidelines and transaction profiles – modified to provide additional functionality or new ones developed as appropriate to support specific industry sector usage.
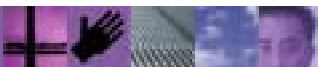
X12 Requirements Group (XRG) - Activity

- Since January of this year (2006) approximately 31 change requests have been processed.
- Currently working on the publication for version 5030 which will be available December 2006.
- New change requests are being applied to version 5040 which will be published in 2007
- Timeframe for 5040 publication TBD which can be adjusted based on industry need.
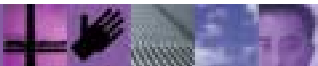
XRG Maintenance Activity – Codes

- **Data element 66 Identification Code Qualifier (810/N1 v 5040):**
  - ➤ Requested new code for US Customs Shipper ID (SID)
  - ➤ Changed code 'CM' to *U.S. Customs Manufacturer Identifier (MID)*
  - ➤ Both included an expanded definition

XRG Maintenance Activity – New Codes

- New codes data for element 128 Reference Identification Qualifier:

  ➢ Canadian Food Inspection Agency Product Code (810/REF v5030)

  ➢ Food and Drug Administration (FDA) Registration Number (810/REF v5040)

  ➢ Food Canning Establishment (863/REF v5040)

XRG Maintenance Activity – Codes

- Data element128 Reference Identification Qualifier (v 5030) - Revised Code Names:
  - UCB *VICS Bill of Lading* (17 digits)
  - UCM *VICS Master Bill of Lading* (17 digits)
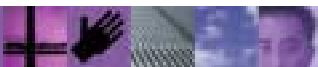
XRG Maintenance Activity – New Codes

- New code for data element 91 Transportation Method/Type (940/W01; 945/W27 v 5040)
  - ➤ XE Intermodal Expedited

- New codes for data element 152 Special Handling (940/W6 v 5040):
  - ➤ TRU Truck to Rack Pallet
  - ➤ XXX SSCC-18 Bar Code

XRG Maintenance Activity – New Codes

- New codes for data element 92 Purchase Order Type Code (940/W05 v 5040)
  - ➢ Customer Order
  - ➢ Fire sale Order
  - ➢ Warehouse Transfer Order
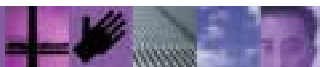 - ➢ Donation Order
  - ➢ Export Order

XRG Maintenance Activity – New Codes

- **New codes for data element 753 Package Characteristic (888/PKG v5040)**

    ➢ LCE Lot Code Expiration Based

    ➢ LCP Lot Code Production Based

- **New codes for data element 181 Quantity or Status Adjustment Reason (947/W19; 5040)**

    ➢ 08 Product Put in Quality Inspection Inventory

    ➢ 88 Product Removed from Quality Inspection Inventory

XRG Maintenance Activity – New Codes

- New codes for data element 560 Special Services Code (940/W01 v 5040)

  ➤ 10 First In First Out (FIFO)

    Oldest product

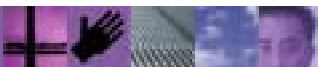 ➤ 11 Last In First Out (LIFO)

    Newest product

XRG Maintenance Activity – New Codes

- New codes for data element 750 Product/Process Characteristic (846, 850, 850, 888 – PID02; 5040)

  - ➢ BL Blocked Stock

    Not shippable

  - ➢ UR Unrestricted Stock

    No Restrictions

  - ➢ SEM Semi-Finished Goods

  - ➢ PKG Packaging Materials

  - ➢ SUP Packaging Support Materials

  - ➢ QI Quality Inspection Stock

    For products managed using a Quality Inspection process

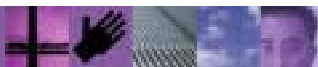# XRG Maintenance Activity – New Codes

- **New codes for data element 883 Pallet Type Code** (v5040)
  - ➢ 9 Blue Plastic
  - ➢ 10 Red Plastic
  - ➢ 11 Euro Pallet
  - ➢ 12 Heat Treated
  - ➢ 13 Fiberboard
  - ➢ 14 White Wood
  - ➢ 15 4-Way
  - ➢ 16 Leased Wood

XRG Maintenance Activity - Errata

- **855 Purchase Order Acknowledgment (VICS, v5020 and earlier)**

  - ➤ Correct guideline to show that data element 380 (PO102), Quantity, is available for use in the PO1 segment

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20
PO102	380	Quantity Numeric value of quantity	C	R	1/15
		NOT USED BY THE RETAIL INDUSTRY			

XRG Maintenance Activity – Transactions

- **832 Price/Sales Catalog (v5030)**

  ➢ PID segment, data element PID08 – Yes/No Condition or Response Code opened for use.

  ➢ Code value 'W' – *Not Applicable* added to the approved code list.

PID08   1073   Yes/No Condition or Response Code   O   ID   1/1

Code indicating a Yes or No condition or response

NOT USED BY THE RETAIL INDUSTRY

XRG Maintenance Activity – Transactions

- ## 940 Warehouse Shipping Order (v 5040)

  - ➢ PAL segment added (Header & Detail loops) to describe pallet type to be used for shipment.

  - ➢ New codes added to Data Element 883 Pallet Type Code, which describe the pallet.

PAL segment added to header at position 1565

Header   940 Warehouse Shipping Order

POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
0100	ST	Transaction Set Header	M	1	
0200	W05	Shipping Order Identification	M	1	
		LOOP ID - 0100			10
0400	N1	Party Identification	O	1	
0500	N2	Additional Name Information	O	2	
0600	N3	Party Location	O	2	
0700	N4	Geographic Location	O	1	
0800	PER	Administrative Communications Contact	O	5	
0900	N9	Extended Reference Information	O	10	
1000	G61	Contact	O	3	
1100	G62	Date/Time	O	10	
1200	NTE	Note/Special Instruction	O	>1	
1300	W09	Equipment and Temperature	O	1	
1400	W66	Warehouse Carrier Information	O	1	
1500	W6	Special Handling Information	O	5	
1530	R2	Route Information	O	13	
1560	BNX	Rail Shipment Information	O	1	
		LOOP ID - 0150			1
1570	TD3	Carrier Details (Equipment)	O	1	
1580	AT9	Trailer or Container Dimension and Weight	O	1	

PAL →

PAL segment added to detail at position 1190

940 Warehouse Shipping Order

1140	LH2	Hazardous Classification Information	O	6	
1160	LHR	Hazardous Material Identifying Reference Numbers	O	1	
1180	LH6	Hazardous Certification	O	5	
		LOOP ID - 0320			10
1200	LM	Code Source Information	O	1	
1300	LQ	Industry Code Identification	M	100	
1350	LS	Loop Header	O	1	

PAL →

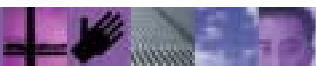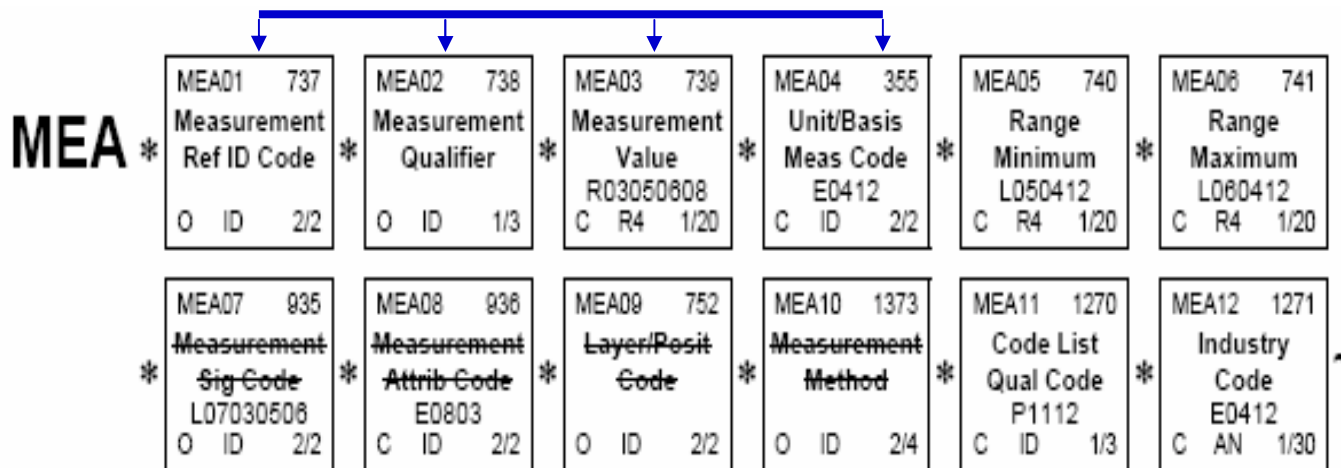# XRG Maintenance – Implementation Enhancements

- **863 Report of Test Results**

  - ➤ Developed an implementation guideline which allows testing parties to identify new tests and test results, without adding new codes to the X12 Data Dictionary.

  - ➤ Does require that the testing parties have a mutually agreed-to list of tests and test identifiers.
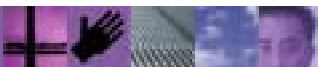
XRG Maintenance – Implementation Enhancements

888 Item Maintenance (v 5030)

➤ Add guideline to provide *Pallet Stacking Factor* using MEA segment

➤ MEA01 – 'PA' (Pallet); MEA02 – 'HM' (Height Max.)

➤ MEA03 – Value; MEA04 – 'PL' (Pallet)

XRG Maintenance – Implementation Enhancements

- **940 Warehouse Shipping Order (v 5030)**

  - ➤ New functionality developed to identify approved substitute products

  - ➤ Add Loop ID 0330 (Optional)

    Use LX & N9 segments

    Open code 'QP – Substitute Part Number' in N901

XRG Maintenance – Implementation Enhancements

- **940 Warehouse Shipping Order (v 5030)**

  ➢ New functionality developed to identify special handling information for product shipment

  ➢ In N9 segment, open N903-Freeform Description, in Loop 0310

XRG Maintenance – Transaction Guidelines

- **New Transaction guidelines for UCS version 5030**

  ➢ 860 Purchase Order Change Request – Buyer Initiated

  ➢ 865 Purchase Order Change Acknowledgment/Request – Seller Initiated
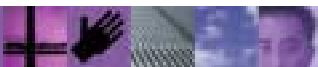
XRG Maintenance Activity

- ## In process for version 5040:

  - ➢ Create the ability to provide Method of Catch (Farm Raised or Wild Caught) in the 810 and 880 Invoices to accommodate "Country of Origin" Legislation.
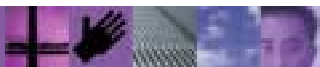
XRG Maintenance – FDA Bioterrorism Act of 2002

- **Current X12 EDI and UCS implementation guidelines support informational requirements:**
  - ➤ 211 Motor Carrier Bill of Lading
  - ➤ 856 Ship Notice / Manifest
  - ➤ 810 Invoice
  - ➤ 880 Grocery Products Invoice

XRG Maintenance – EPC / RFID Information Capture

- Guidelines are in process to handle capturing the SGTIN and SSCC (DE 88, 235) for bar code and EPC interoperability:

  - ➤ 856 Ship Notice / Manifest

  - ➤ 857 Shipment & Billing Notice

  - ➤ 940 Warehouse Shipping Order

  - ➤ 944 Warehouse Stock Transfer Receipt Advice
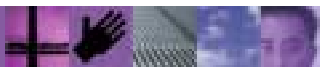
  - ➤ 945 Warehouse Shipping Advice

XRG Maintenance Activity

- Updated guidelines for Scan Based Trading.
- Re-vamping the UCS for Direct Store Delivery Implementation Guide that defines the direct connect interface standard (DEX/UCS).
- Developing ASN guideline changes to support RFID with serialization in warehousing.
- Communication Standard EDIINT AS1 & AS2 guideline revisions.
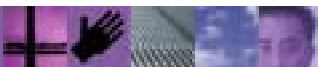
XRG Maintenance Activity

- Development to support Food Service / Meat and Poultry industries:

  ➢ New 856 Advanced Shipping Notice (ASN) guidelines

  ➢ Guidelines for 867 Sales Reporting and Bill Back

XRG Maintenance Activity – GS1 US Version 5030

- Complete implementation guide update to all UCS, VICS and I/C supported transaction sets and Profiles.

  - All X12 updates

  - All XRG updates

- Single, common format for all implementation guidelines.

X12 Requirements Group (XRG)

- We are looking for a few good people to join our team.