

Making electronic product catalogues through a single point-of-entry a reality

Mike Wallace Abbott





- Background
- Where we are going
- Where we are today
- What this means to you
- Questions



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Critical business processes require reliable product and location data:

- Distribution systems
- Inventory replenishment
- Billing/accounts payable
- Traceability systems (pedigree systems, adverse event reporting, product recalls, barcode point-of-care systems,, ...)

Inaccurate or bad data add cost and risk



Product catalogues - current situation:

Varying methods of communicating new items

Supplier A - printed catalog

Supplier B – price quote

Supplier C – PDF data

Supplier D – Excel tables

Supplier E – text data

Supplier F – link to website



- Varying methods of communicating updates/changes (or not communicating)
- Varying descriptions and levels of detail (product attributes)



Same product – different numbers

For example*:

3M product with reference # 8630

Same product in different databases of distributors:

•Allegiance M8630

•Owens & Minor 4509008630

•BBMC-Colonial 045098630

•BBMC-Durr 081048

•Kreisers MINN8630

•Midwest TM-8630

•Pacific 3/M8630

•UnitedUMS 001880



Different products – same number

For example:

Part Number 10313 in Premier Inc. Product Item Master refers to

- Medtronic's "NEEDLE CARDIOPLEGIA ADULT 16GA 5/8IN TIP 10IN"
- •Hantover's "CARTRIDGE REPLACEMENT STUNNER YELLOW F/CALVES/HEAVY HOGS"
- •Chattanooga Group's "ACCESSORY TRACTION REPLACEMENT STRAP XL FOR HALTER THORACIC RESTRAINT"
- •HF Scientific's "TEST KIT WATER FREE CHLORINE DPD 25ML SAMPLE PHOTOMETRIC 1000/PK"



No standardised product information

Inconsistent packaging data

- Order 20 cases, receive 20 boxes
- No uniform Unit of Measure standard

Unit of Measure	<u>Description</u>	Unit of Measure	<u>Description</u>
Unit of Measure BD BDFT BN BO BOLT BR BRRL BX BXES CO COIL CR CRBY CS CSES CT CTON DR DR DRUM DZ DZEN EA EA EA BCH	Description BOARD FOOT BOARD FOOT BUNDLE BOLT BOLT BARREL BARREL BOXES COIL COIL CARBOY CARBOY CARBOY CASE CASE CARTON CARTON DRUM DRUM DOZEN DOZEN EACH EACH	Unit of Measure LOT LOTS LY LYRS NU NUTS OZ OZS PA PADS PI PINT PK PKGS PL PLS PR PRS QR QRES QT QTS RE	Description LOT LOT LOT (MULTI) LINEAR YARD LINEAR YARD NUT NUT OUNCE OUNCES PAD PAD PINT PINT PACKAGE PACKAGE PAIL PAILS PAIR QUIRE QUART QUART REAM
FE	FEET	REAM	REAM



Healthcare No standardised location ID

Manufacturer	Manufacturer	
SOUTHLAND TECHNOLOGY 3M	3M 800-327-5380	3M C/O E[
3M CO PHOTO PRODUCTS DIV	3M CO	3M C/O FL
3M DIAGNOSTIC SYSTEMS INC	3M DENTAL 800-237-1650	3M C/O G(
3M ELECTRICAL SPECIALTIES DIV	3M ESPE DENTAL DIVISION 800-364-3577	3M C/O H(
3M HEALTH	3M ESPE UNITED STATES	3M C/O IN
3M HEALTH CARE CDI	3M ESPE	3M C/O JA
3M HEARING COMPONENTS	3M HEALTH CARE 800-521-2818	3M C/O LU
3M INDUSTRIAL TAPES LTD	3M HEALTHCARE PRODUCT	3M C/O N/
3M MEDICAL DEVICE DIV	3M HEALTHCATE	3M C/O No
3M MEDICAL IMAGING SYSTEMS DIV	3M MEDSURGE	3M C/O O/
3M MEDICAL PRODUCTS DIV	3M MINNESOTA MINING MFG OFFICE	3M C/O RE
3M MEDICAL-SURGICAL DIV	3M MINNESOTA MINNING & MFG.CO.	3M C/O S/
3M MEDICAL/SURG	3M OCC. HEALTH AND ENV. SAFETY DIV	3M C/O S(
3M PHARMACEUTICS AND MEDICAL S	3M OCC. HEALTH AND ENV. SAFETY DIV.	3M C/O Th
3M-MEDICAL/SURGICAL	3M SARNS/CDI	3M C/O TH
3M/ OCCUPATIONAL AND SAFETY DIV	3M SURGICAL	3M C/O Th
3M - MINNESOTA MINING &	3M UNITEK 800-423-4588	3M C/O TI
<u>co</u>	3M UNITEK	3M C/O W
3M FEDERAL GOVERNMENT	THREE M/ ESPE	3M C/O W.
3M FEDERAL SYSTEMS DEPARTMENT	3M COMPANY C/O WAHL CORP.	3M COMM
3M HEALTH CARE SYSTEMS	MINNESOTA SCIENTIF	3M COMM
3M HEALTHCARE \$250 MINIMUM ORDER	CORPORATE ALLIANCE 3M CUSTOMER SERV	3M COMP.
3M HEALTHCARE(MINNISOTA MINNING)	3 M HEALTHCARE	3M COMP.
3M MEDICAL - CREDIT CARD	3 M UNITEK CORP	3M COMP.
3M MEDICAL PRODUCTS	3-M	3M COMP.
3M OCC. HEALTH AND ENV. SAFETY DIVISION	3-M COMPANY	3M COMP.
3M OCCUPATIONAL AND SAFETY DIV	3-M COMPANY-C/O O	3M COMP.
3M SAFETY DIVISION	3-M COMPANY-C/O OEM PRODUCTS	3M CONS
3M-DENTAL PRODUCTS DIVISION	3-M PHARMACEUTICALS	3M CONS
3M-HEALTH CARE	33M HEALTHCARE	3M CORP
3M DENTAL PRODUCTS DIV.	3M	3M DENT/
3M UNITEK CORPORATION	3M PUERTO RICO	3M DENTA
3M UNITEK DENTAL PRODUCTS	3M SPECIALITY CHEMICAL	3M DEUTS
3M BIOLOGICAL	3M % SAN-MAR	3M HEALT
3M ESPE DENTAL PRODUCTS	3M (CRJ7242)	3M HEALT
3M HEALTH CARE (MED/SURG PRODS)	3M - MINNESOTA MI	3M HEALT
3M C/O CHECKPOINT METO	3M - MINNESOTA MINING & MFG.CO	3M HEALT

Multiple manufacturer names

Order with whom?



(GS1 Healthcare Data errors in healthcare

% of total Data error	Manu- facturer	Distributor	GPO	Healthcare provider
Missing Middle Levels of Packaging	15-20%	1-4%	20-25%	15-25%
Hard "Packaging Quantity" Errors	1%	1%	2%	2-5%
Unit of Measure Confusion/Misuse	2-6%	1-3%	2-5%	Unknown
Missing Packaging—not Middle Level	3-8%	3-8%	3-7%	5%
Manufacturer Name Problems	NA	2-5%	1-4%	30%
Obsolete Products	1-4%	2-5%	1-8%	5-15%
Missing Product Brand Names	2-5%	5-10%	5-10%	20-25%
Incomplete Item Descriptions	5-15%	3-12%	5-15%	10-20%
Wrong Customer Unit Prices	Unknown	1-2%	NA	1-2%
Customer Paid More Than Lowest Contract Price	NA	Unknown	NA	3-6%

Source: US Department of Defense Study



- Inaccurate and inconsistent data in the Healthcare supply chain add billions of \$, €, ... in costs
 - Supply chain information inefficiencies
 - Inaccurate data in transactions
 - Purchase orders and invoices with errors
 - Manual work-around processes to correct errors
- Inaccurate and inconsistent data add risk to patient safety
 - Disruptions may result in the inavailability of products to treat a patient
 - Medication errors due to incorrect relabeling



truth

Supplier = data source

Needs single point-ofentry

 One database to load new item data and update data on existing items

Needs security

 Autorisation access by supply chain partners

Standards-based

- Standard identification keys
- Predefined (set of) product attributes

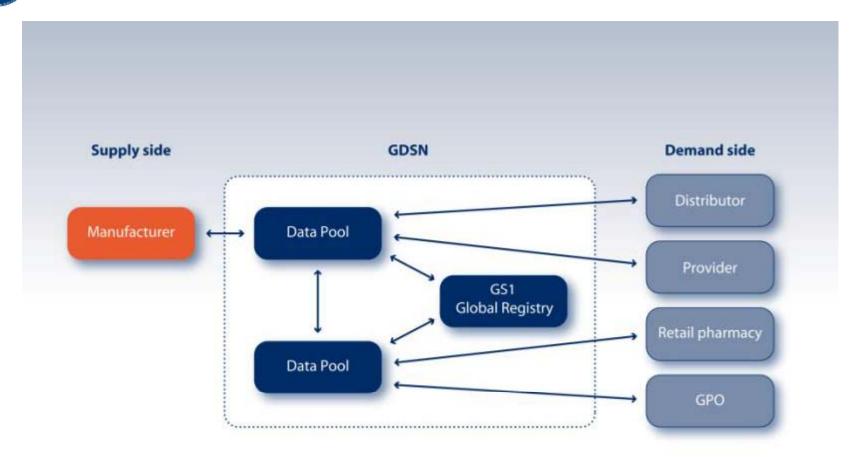
Hospital = data recipient Needs single point-of-

- One source for up-to-date, accurate data
- Continuous synchronisation

Standards-based

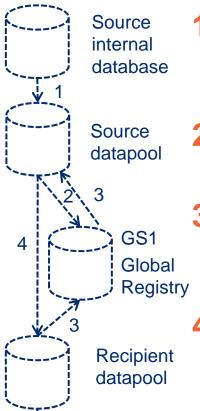
- Standard identification keys
- Consistently formatted information
- Complete information

(GS1 Healthcare Global Data Synchronisation





Healthcare How GDSN works



Recipient

database

internal

1. Load data

The seller registers product and company information in its data pool

2. Register data

A small subset of this data is sent to the GS1 Global Registry

3. Request subscription

 The buyer, through its own data pool, subscribes to receive a seller's information

4. Publish data

 The seller's data pool publishes the requested information to the buyer's data pool

5. Confirm & inform

 The buyer sends a confirmation to the seller via each company's data pool, which informs the seller of the action taken by the buyer using the information



25 mandatory attributes

- 8 mandatory attributes required to register products in the GS1 Global Registry
- 17 mandatory attributes to operate in the GDSN

200+ optional attributes

- Trading partners decide whether to exchange additional information
- There are currently 203 optional GDSN attributes which support healthcare specific needs
- 33 new data requirements are being added to the GDSN standard





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All product information for every item is current, correct, and available via a single globally-accessible network



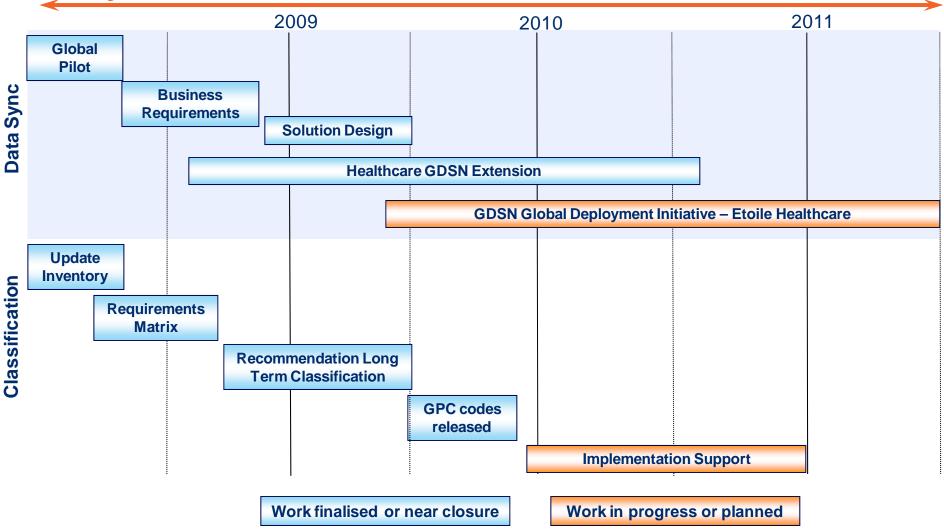


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(GS)1 Healthcare Roadmap to global standards

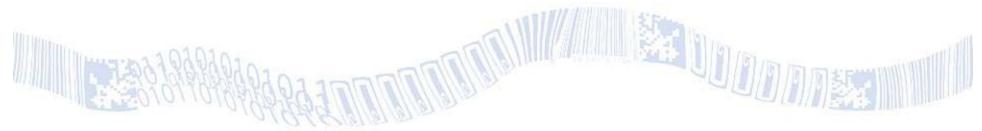
Data Synchronisation & Product Classification for Healthcare





Global GDSN Implementation Initiative for Healthcare

A global implementation initiative to use the GDSN's unique position to meet current and emerging requirements for electronic product catalogue data, including pending regulatory demands and commercial needs for reliable product data between healthcare trading partners.





40 GDSN implementation attributes for healthcare



Global Trade Item Number (GTIN)

Pack Level

Manufacturer Part Number

Hierarchy (Parent GTIN)

Hierarchy (Child GTIN)

Hierarchy (Quantity of Children)

Publisher Global Location Number (GLN)

Target Market

Brand Owner and GLN

Manufacturer Name and GLN

Functional Name

Brand Name

Description

Height + Unit of Measure

Width + Unit of Measure

Depth + Unit of Measure

Gross Weight + Unit of Measure

Net Content + Unit of Measure

Consumer Unit Y/N

Orderable Unit Y/N

Invoice Unit Y/N

Shipping Unit Y/N

Base Unit Y/N

Variable Unit Y/N

Returnable Package Y/N

Marked with Lot Number Y/N

Bar code Type

GPC code

Optional Classification Agency

Optional Classification Agency Value

Start Date

Effective Date

Shelf Life From Production

Shelf Life From Delivery

Contains Blood

Implantable

Contents of Concern

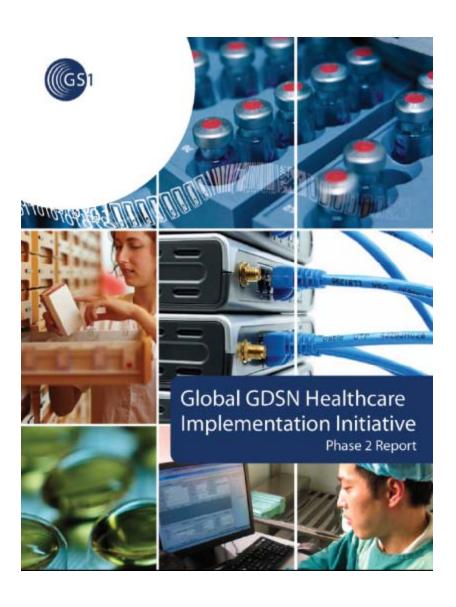
Reusability Types

Brand or Generic Flag

Does Product Contain Latex



Global GDSN Implementation Initiative for Healthcare



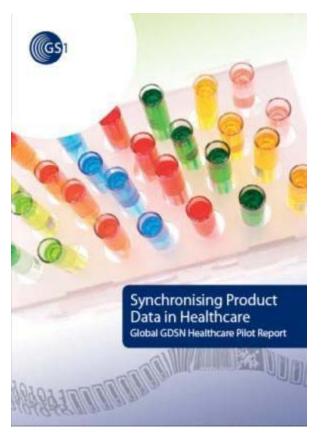
- Launched June 2009
- Today:
 - Participation: 26 healthcare organisations
 - Connections: 57 live
 - Finalised Phase 2 report: sharing lessons learned
- Next step:
 - Expansion to more countries and more participants

(GS1 Healthcare Global GDSN Pilot (2008)





Healthcare Results 2008 Global GDSN Pilot



Demonstrated that the GDSN works across international boundaries

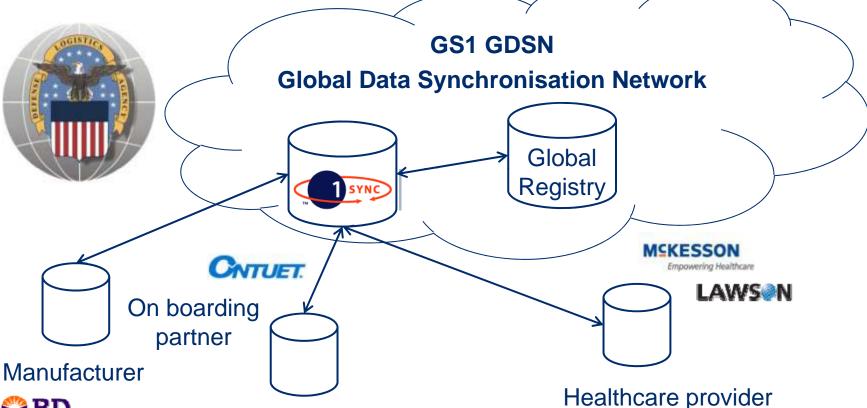
- Interoperability among data pools
- The technology works in various settings

Report available at www.gs1.org/healthcare



US Department of Defense

Pilot (2007)







Distributor/Wholesaler/GPO













EXCEPTIONAL CARE, WITHOUT EXCEPTION.









ASCENSION HEALTH





(GS)1 Healthcare Results 2007 DoD Pilot

- Opportunities identified to saves costs
 - Better contract price available
 - Saved \$18.7M so far at 30 + hospitals
- Opportunities identified to increase DoD eCommerce
 - Moved \$7.766M to eCommerce services
- Created robust DoD & VA Med Surg product data bank of 1 million + records
 - Accurate master records for 93% (\$407M) of DoD buys
 - Joint DoD & VA access to pricing, packaging, product ID
- Created active collaboration with Healthcare Industry
 - Ongoing pilots with manufacturers and PV distributors
 - PDU as goal within Healthcare Standards Organizations



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ONE global standard for data synchronisation in healthcare



Putting the standards at work...



Healthcare How Abbott got started



- Participated in standards development work groups
- Participated in Australian pilot
 - Monash Project 2006
 - Demonstrated supply chain process improvements through data synchronisation - National Product Catalogue (through GS1net, a GDSN-certified data pool)
- Participating in Global GDSN Implementation Initiative
- Live in « GDSN in Retail »



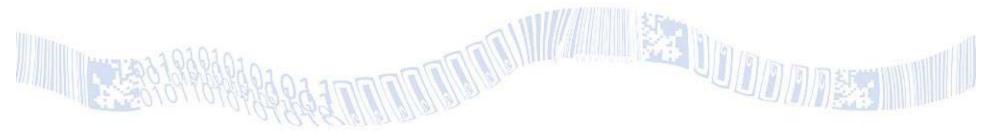
Streamline and 7. Use data for transactions optimise processes Synchronise more products 6. Measure success and expand with more trading partners Continuous 5. Start data synchronisation synchronisation of data **Buyer subscribes** 4. Subscription to supplier and products to supplier and products Load products and register 3. Register supplier and products with Global Registry Internal preparation 2. Identify trading partners and products and planning Gain access to the GDSN 1. Subscribe to a GDSN-certified Data Pool

Goal: Single global source of truth for product data



This Week:

- Wednesday, 15:30 17:00 (breakout sessions)
 - Introduction session: Data synchronisation in healthcare





Global teams

- GDSN Work Group
- Global GDSN Implementation Initiative

Local teams

 Contact your local Member Organisation representative or a GDSN-certified data pool





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