



Introduction to GS1 in Healthcare

Global GS1 Healthcare Conference Buenos Aires, Argentina





- GS1 Healthcare the global perspective
- AIDC Application Standards Chuck.Biss@gs1.org
- Global Data Synchronisation & Product Classification <u>Pete.Alvarez@gs1.org</u>
- Traceability in Healthcare <u>Janice.Kite@gs1.org</u>
- Public Policy <u>Geraldine.Lissalde.Bonnet@gs1.org</u>



GS1: The Global Language of Business



- a neutral, not-for-profit, international organisation
- dedicated to the design and implementation of global standards
- to improve the efficiency and visibility of supply chains globally and across sectors



A need for global standards...



What happens when there aren't global standards?

- Inefficiencies
- Increased risk
- Lost opportunities



... to meet the needs of the supply chains in different sectors



Efficiency

Safety

Collaboration

Sustainability







and more...



GS1 is both global and local

GS1 Global Office

Identification, creation, development and maintenance of standards and our foundational architecture, coordination with other international bodies, development of training programmes...

GS1 Member Organisations

Local offices in 111 countries around the globe Implementation of standards, local regulatory adjustments, community management and relationship management with local governments and regulatory agencies...



Global reach, local presence



Close to 2 million companies around the world use GS1
Across 150 countries
Over 6 billion transactions a day



GS1 Healthcare



The healthcare supply chain needs global standards





- Medication errors result in additional treatments, disabilities and even loss of life
- Counterfeiting is an increasing global threat
- Traceability from manufacturer to patient is problematic
- Product recalls can be difficult to manage, in particular for healthcare providers
- Manual interventions in the healthcare supply chain decrease its efficiency and accuracy



Lack of standards in Healthcare is inefficient and adds risk...







- Multiple bar codes on one package which one to scan?
- Different types of bar codes inconsistency; incompatibility
- No bar code need to bar code; re-package; re-label





The Need for Global standards in Healthcare



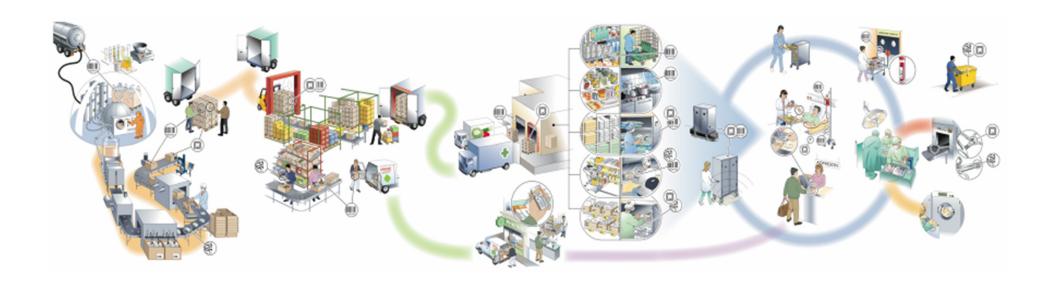
"CUSTOMIZED ACTIONS MEAN COSTS!!

Harmonisation of regulatory requirements and data standards will enable efficiency of a global product offering – otherwise complexity and cost will continue to raise"

Senior Executive, MD company



GS1 Healthcare mission – a voluntary, global Healthcare User Group



To lead the healthcare sector to the successful development and implementation of **global standards** by bringing together **experts** in healthcare to enhance patient safety and supply chain efficiencies.



GS1 Healthcare User Group

Supply-side Organisations



















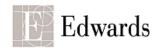


















































Leading healthcare organisations pave the way...

Buyer/Provider-side Organisations going global











Austria

Austria

France

France

Germany











Germany

Hong Kong

Ireland

Macedonia

Netherlands













Netherlands

Switzerland

USA

USA

USA

USA



GS1 Healthcare around the World

Members global user group

Manufacturers

3M

Abbott Laboratories

AbbVie

Alcon Labs Amgen

Astra Zeneca

Baxter

Becton Dickenson

B. Braun Cook Covidien

Edwards Lifescience

Fresenius

GE Healthcare

Genzyme Gilead

GlaxoSmithKline

Johnson & Johnson

Medtronic Merck & Co.

Pall Medical

Pfizer

Purdue Pharma

Smiths Medical

TEVA Zimmer

Solution provider

Advanco Axway GHX

Seidenader

Distributors/Healthcare providers/GPOs/T&L

Cardinal Health (U.S.)

CH Aulnay sous Bois (France) Comparatio Health (Germany)

DHL Exel Supply Chain

Erasmus MC Rotterdam (NL) Filip Vtori hospital (Macedonia)

UNI.HA (representing 17 French

university hospitals)

Hong Kong Hospital Authorities

McKesson (U.S.) Novation (U.S.)

Orthopädisches Spital Speising Wien

(Austria)
Premier (U.S.)

St. James Hospital, Dublin

Marienhospital Herne (Germany)

UMC Groningen (NL)

University Kentucky Healthcare

(U.S.)

Wiener Krankenanstaltenverbund

(Austria)

Non-voting members

AHRMM Cladimed

EDQM - Council of Europe

FDA USA

Instituto Brasileiro de Ética Concorrencial – ETCO

Public Health Agency of Canada

110 0-0

Local participation

Manufacturers

3M Baver

Becton Dickinson Boehringer Ingelheim

Coloplast

Draeger Medical

Genzyme Hospira

Kimberly-Clark Novo Nordisk Purdue Pharma St. Jude Medical

Stryker

Teva Pharmaceuticals

Terumo UCB

Upsher-Smith

. . .

Distributors/Wholesalers

Aexxdis Amerinet

Amerisource Bergen

CH2 Depolabo Galexis

GAMMA Wholesale

Geodis McMahon

Owens & Minor

Healthcare providers/Retailers

Alfred Hospital (Australia) Ascension Health (U.S.)

Capital District Health (Canada)

CHU de Québec (Canada)

CHU Dijon (France)

HUG Geneva (Switzerland)

London Drugs (U.K.)
Mayo Clinic (U.S.)
Sisters of Mercy (U.S.)
Sobeys Pharmacy (U.K.)
UHCS Augusta VA (U.S.)

Walgreens (U.S.) Wal-Mart (U.S.)

...

Associations

AHA (U.S.)

CIP/ACL (France)

CHeS (U.S.) EFPIA (Europe)

Eucomed (Europe)

FENIN (Spain) GIRP (Europe) HDMA (U.S.)

International Hospital Federation

JFMDA (Japan)

Medical Industry Association of

Australia NACDS (U.S.)

Patient Safety Foundation (U.S.)

...

And many more...



Recognised, open and neutral source





GS1 and Joint Initiative Council (JIC) in **Healthcare**







European Committee for Standardization



Health Level 7 international



International Health Terminology SDO



Clinical Data Interchange Standards Consortium





Integrating the Healthcare Enterprise

OJoint Initiative Council







Organization



World Customs Society for Blood International Transfusion



European Association of Hospital **Pharmacists**



European Association of **Medical Device** manufacturer



International Society for Quality in Healthcare



- GS1 Healthcare the global perspective
- AIDC Application Standards
- Global Data Synchronisation & Product Classification
- Traceability in Healthcare
- Public Policy



GS1 Enabling AIDC Solutions in Healthcare

Chuck Biss Senior Director, AIDC Healthcare GS1 Global Office





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



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Automatic Identification & Data Capture (AIDC)

"Automatic Identification and Data Capture (AIDC) refers to the methods of automatically identifying objects, collecting data about them, and entering those data directly into computer systems (i.e., without human involvement)."

Wikipedia, 2009









AIDC Application Standards

Defines
the data to carry
using specific data carriers
for every healthcare product
at every packaging level





Scope: Data

Data – a few examples:

- ✓ Global Trade Item Number (GTIN)-
- ✓ Expiry Date
- ✓ Batch / Lot
- ✓ Serial Number





Scope: Data carriers









Scope: All healthcare products

Pharma / Vaccine / Nutritional



Medical devices



Retail

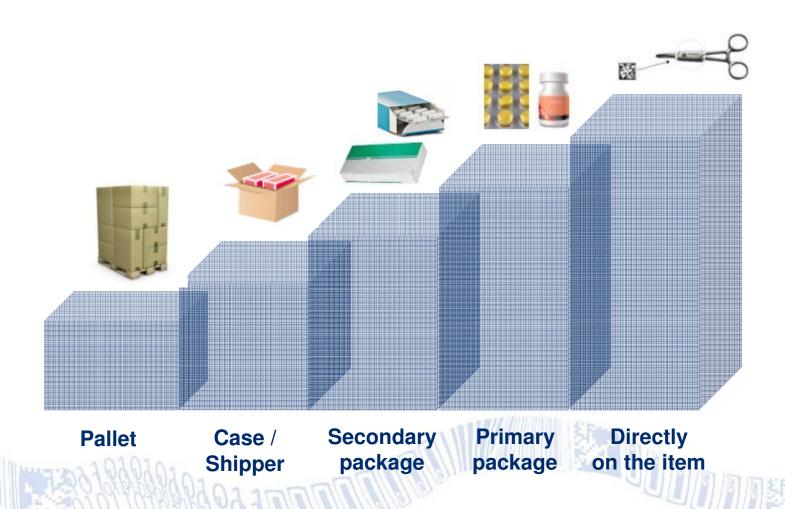


Non-retail





Scope: All packaging levels





Scope: Solutions based on information needs

AIDC Marking requirements

Highest

Enhanced

Minimum



Catheters, needles, ...

Cotton balls, bandages, patient exam gloves, ...



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AIDC for Healthcare...Vision

ONE set of key identification data carried in ONE data carrier able to be scanned by EVERYONE at every key process step...





AIDC for Healthcare...Why?

- To improve patient safety
 - Achieve the "5 Patient Rights" / "8 Patient Rights"
 - Reduce errors
 - Ensure needed information is readily available to the healthcare practitioner
- To increase efficiency in supply chain and treatment chain





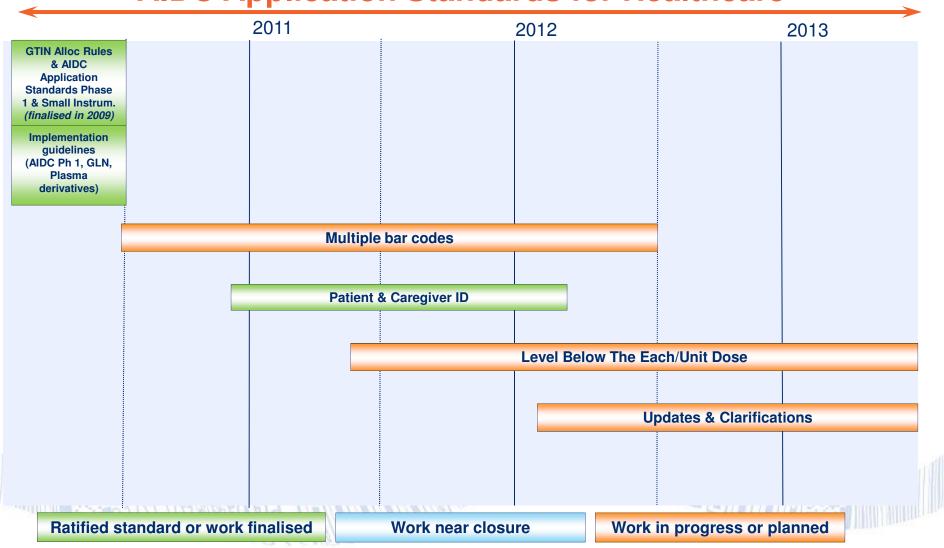


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Roadmap to Global Standards

AIDC Application Standards for Healthcare





GS1 General Specifications



Revised!

The core standards document of the GS1 System

Now including AIDC Application Standards for Healthcare

GS1 General Specifications
Version 12

Issue 1, Jan-2012

And specific standards for marking re-usable surgical instruments

Contact your GS1 Member Organisation for your copy!





AIDC Implementation Guide



Version 1.1 Completed!

How to implement all aspects of the new Healthcare AIDC additions and changes to the GS1 General Specifications

AIDC Healthcare Implementation Guide

Issue 1.1, Dec-2010

Available at:

http://www.gs1.org/sites/default/files/docs/gsmp/healthcare/AIDC_Healthcare_Imp_Guide.pdf

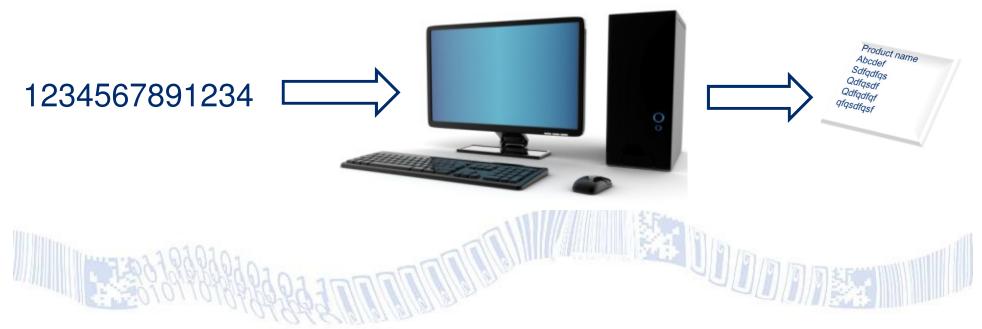




The foundation of the GS1 System

GS1 Identification Keys

Provide access to information held in computer files – Information about company/location, package, product, price, etc.





Nono 20

GS1 Identification Keys



Global Trade Item Number

Logistics unit identifier =

SSCC

Serial Shipping Container Code

Location identifier = GLN

Global Location Number

- Unique
- Non-significant
- International
- Secure
- Foundational

And there are more ...



GS1 Identification Keys

GTIN = Global Trade Item Number

Products or Services

SSCC= Serial Shipping Container Codes

Individual Logistics Units

GLN = Global Location Numbers

Physical Locations and Legal Entities

GRAI = Global Returnable Asset Identifier

Returnable Assets

GIAI = Global Individual Asset Identifier

Fixed Assets

GSRN = Global Service Relation Number

Recipient of services

GSIN = Global Shipment Identification Number*

Multiple Logistic Units for Trade (Shipper Assigned)

GINC = Global Identification Number for Consignment*

Multiple Logistic Units for Transport (Transport Company Assigned)

GDTI = Global Document Type Identifier

Document Type





GS1 Application Identifiers

Key attributes

GS1 General Specifications includes complete list of 100+ GS1 Application Identifiers

Application Identifiers for healthcare use:

00	SSCC (Serial Shipping Container Code)
01	GTIN (Global Trade Item Number)
10	Lot / Batch
17	Expiry Date
21	Serial Number
7003	Expiry Date + Time
7004	Active Potency
8003	GRAI (Global Returnable Assets Identifier)
8004	GIAI (Global Individual Assets Identifier)
8017	GSRN (Global Service Relation Number) – Provider
8018	GSRN (Global Service Relation Number) - Recipient





GS1 Data Carriers

Bar Codes

- √ Affordable & easy implementations
- ✓ Pervasive technology
- ✓ Extensive standardization
- √ Proven applications / ROI's
- √ Adaptability / flexibility
- √ Expandable data capacity
- ✓ Visibility into the movement of physical objects in the supply chain

RFID

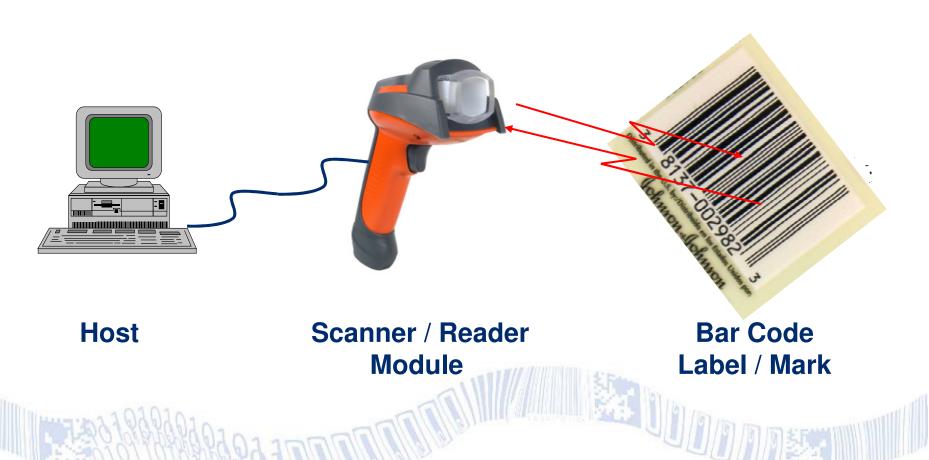
- ✓ Non-line of sight
- ✓ Range
- ✓ Bulk read Speed
- ✓Zero Human Involvement Operations
- ✓ Durability
- ✓ Read/Write
- √ Visibility into the movement of physical objects in the supply chain at new levels

Automation Integration of physical and computer worlds



GS1 Data Carriers

Basic bar code system





GS1 BarCodes for Healthcare





GS1 DataBar





GS1-128



GS1 DataMatrix

(01)00012345678905



(00) 0 0123456 123456789 6

(02) 5 0123456 78901 7 (37) 000288 (02) 5 0123456 11111 5 (37) 000045



ITF-14



GS1 Data Carriers for Healthcare



Camera-based bar code scanners are needed in HC!!









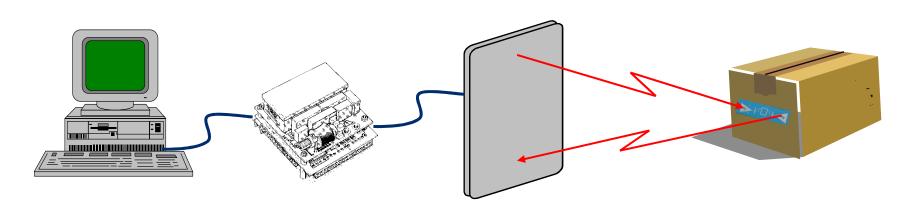
GS1 DataMatrix

GS1-128 & GS1 DataBar



GS1 Data Carriers

Basic RFID system



Host

Reader Module **Antenna**

Tag



- Background
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ONE global standard for AIDC in healthcare now available

Many countries have already adopted GS1 Standards

We anticipate many more...



Putting the standards to work...



How YOU can get started



- 2. Get familiar with the standards / guidelines
 - Attend breakout sessions this week!
 - Participate on GS1 implementation projects / team
- 3. Do a gap analysis...your items vs. GS1 Standards
 - Focus on key items and facilities...don't 'boil the ocean'
 - Build action plans, budgets, management approval
- 4. Implement your action plan
 - Start small, conduct Pilot Projects, "learn by doing",
 "crawl before you walk / run"...



AIDC related sessions...

This Week:

- Tuesday, 13:00 14:00
 "Implementation Reality"
 - GLN GS1 Global Location Number, a basic key for traceability and other business processes
 Dennis Black, Director, e-Business, BD
- Wednesday, 14:00 15:00 "Ask the Experts"
 - Ask the GS1 DataMatrix Expert
 Chuck Biss, Senior Director, AIDC Healthcare, GS1 Global Office



Global teams

- GSMP Level Below The Each Mission Specific Work Group (MSWG)
- GSMP AIDC Healthcare Application Standard Updates Mission Specific Work Group (MSWG)

Local teams

Contact your local Member Organisation representative



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- GS1 Healthcare the global perspective
- AIDC Application Standards
- Global Data Synchronisation & Product Classification
- Traceability in Healthcare

Public Policy



GDSN in Healthcare

23 April 2013

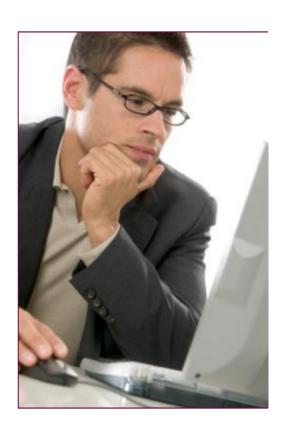




The master data problem

Every company has a database filled with master data about the products they make, sell, or buy

But when one company needs to change any bit of information in their database or add a new item, another database becomes outdated!





Managing master data Where does the data come from?

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)



No standardised product ID

Different products – same number

For example: Part Number 10313 in a major GPO's 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

Description

BOARD FOOT

No uniform Unit of Measure standard

Unit of Measure

BD



Description

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

Unit of Measure

LOT





No standardised location ID

	Manufacturer	Manufacturer	
S	OUTHLAND TECHNOLOGY 3M	3M 800-327-5380	3M C/O E[
31	M CO PHOTO PRODUCTS DIV	3M CO	3M C/O FL
31	M DIAGNOSTIC SYSTEMS INC	3M DENTAL 800-237-1650	3M C/O G(
31	M ELECTRICAL SPECIALTIES DIV	3M ESPE DENTAL DIVISION 800-364-3577	3M C/O H(
31	M HEALTH	3M ESPE UNITED STATES	3M C/O IN
31	M HEALTH CARE CDI	3M ESPE	3M C/O JA
31	M HEARING COMPONENTS	3M HEALTH CARE 800-521-2818	3M C/O LU
31	M INDUSTRIAL TAPES LTD	3M HEALTHCARE PRODUCT	3M C/O N/
31	M MEDICAL DEVICE DIV	3M HEALTHCATE	3M C/O N(
31	M MEDICAL IMAGING SYSTEMS DIV	3M MEDSURGE	3M C/O O/
31	M MEDICAL PRODUCTS DIV	3M MINNESOTA MINING MFG OFFICE	3M C/O RE
31	M MEDICAL-SURGICAL DIV	3M MINNESOTA MINNING & MFG.CO.	3M C/O S/
31	M MEDICAL/SURG	3M OCC. HEALTH AND ENV. SAFETY DIV	3M C/O S(
31	M PHARMACEUTICS AND MEDICAL S	3M OCC. HEALTH AND ENV. SAFETY DIV.	3M C/O TH
31	M-MEDICAL/SURGICAL	3M SARNS/CDI	3M C/O TH
31	M/ OCCUPATIONAL AND SAFETY DIV	3M SURGICAL	3M C/O TH
31	M - MINNESOTA MINING &	3M UNITEK 800-423-4588	3M C/O TI
С	0	3M UNITEK	3M C/O W
31	M FEDERAL GOVERNMENT	THREE M/ ESPE	3M C/O W.
31	M FEDERAL SYSTEMS DEPARTMENT	3M COMPANY C/O WAHL CORP.	3M COMM
31	M HEALTH CARE SYSTEMS	MINNESOTA SCIENTIF	3M COMM
31	M HEALTHCARE \$250 MINIMUM ORDER	CORPORATE ALLIANCE 3M CUSTOMER SERV	3M COMP.
31	M HEALTHCARE(MINNISOTA MINNING)	3 M HEALTHCARE	3M COMP.
31	M MEDICAL - CREDIT CARD	3 M UNITEK CORP	3M COMP.
31	M MEDICAL PRODUCTS	3-M	3M COMP.
31	M OCC. HEALTH AND ENV. SAFETY DIVISION	3-M COMPANY	3M COMP.
31	M OCCUPATIONAL AND SAFETY DIV	3-M COMPANY-C/O O	3M COMP.
31	M SAFETY DIVISION	3-M COMPANY-C/O OEM PRODUCTS	3M CONS
31	M-DENTAL PRODUCTS DIVISION	3-M PHARMACEUTICALS	3M CONS
31	M-HEALTH CARE	33M HEALTHCARE	3M CORP
31	M DENTAL PRODUCTS DIV.	3M	3M DENT/
31	M UNITEK CORPORATION	3M PUERTO RICO	3M DENTA
31	M UNITEK DENTAL PRODUCTS	3M SPECIALITY CHEMICAL	3M DEUTS
31	M BIOLOGICAL	3M % SAN-MAR	3M HEALT
31	M ESPE DENTAL PRODUCTS	3M (CRJ7242)	3M HEALT
31	M HEALTH CARE (MED/SURG PRODS)	3M - MINNESOTA MI	3M HEALT
31	M C/O CHECKPOINT METO	3M - MINNESOTA MINING & MFG.CO	3M HEALT

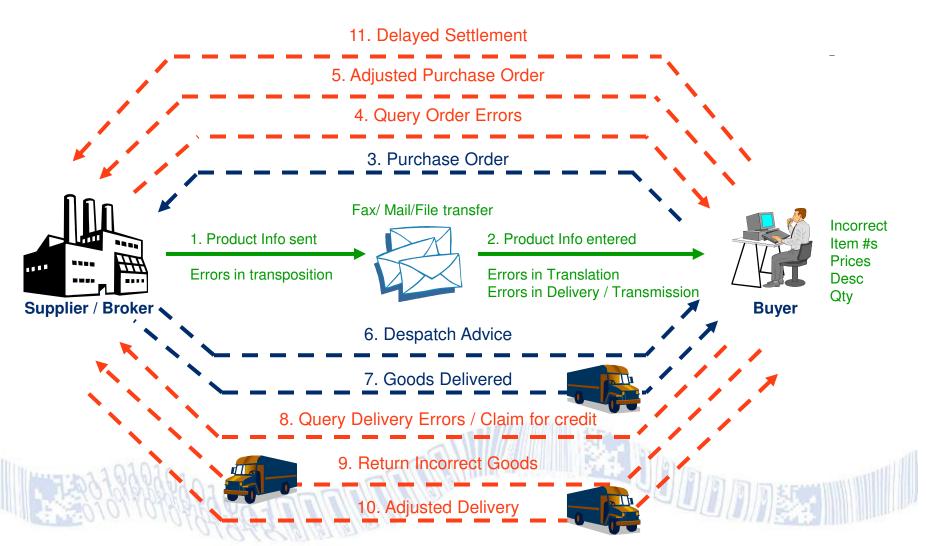
Multiple ways to list a manufacturer:

Who is who?



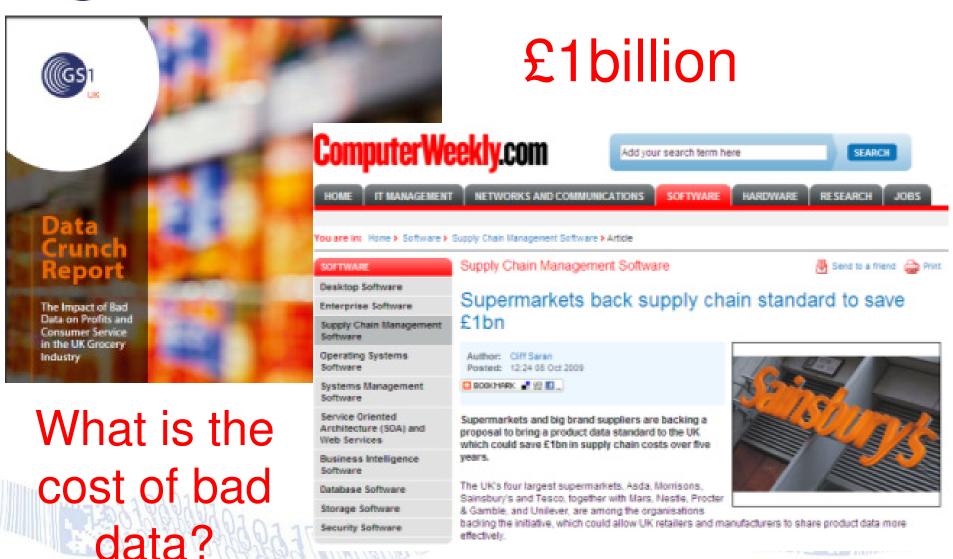


Before Data Synchronisation





Data Quality Industry study: UK





Managing master data Should we care?

Critical business processes require reliable product and location data:

- Distribution systems
- Inventory replenishment
- Clinical systems
- 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





Managing Master Data How to improve?

Supplier = data source Needs single point-ofentry

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

Needs security

 Authorization access by supply chain partners

Standards-based

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

Hospital = data recipient Needs single point-oftruth

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

Standards-based

- Standard identification keys
- Consistently formatted information
- Complete information



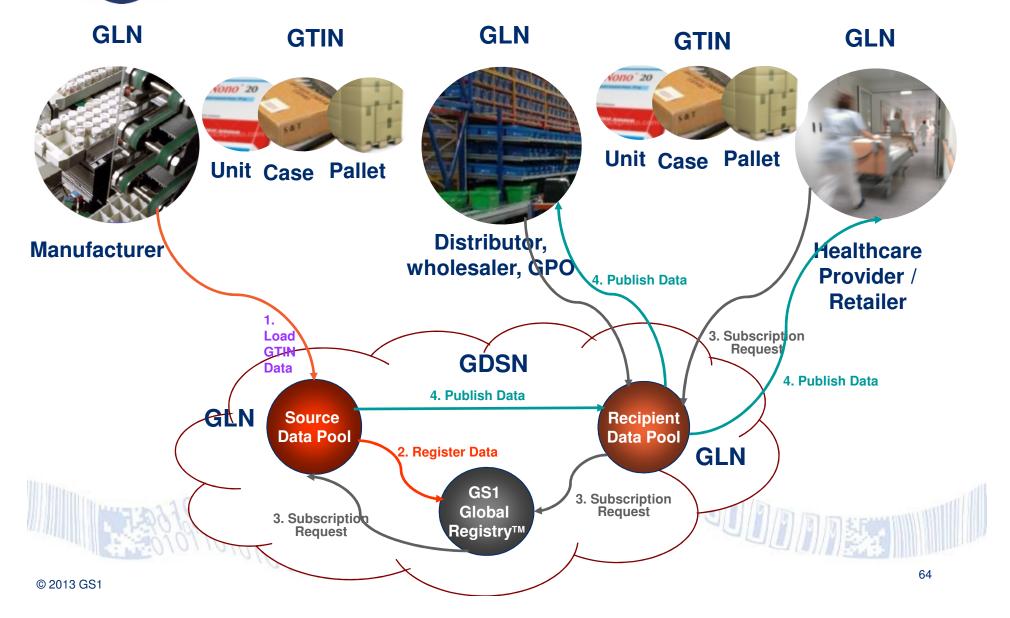
What is the solution?



The GS1 Global Data
Synchronisation Network
connects trading partners
via a network of
interoperable GDSNcertified data pools

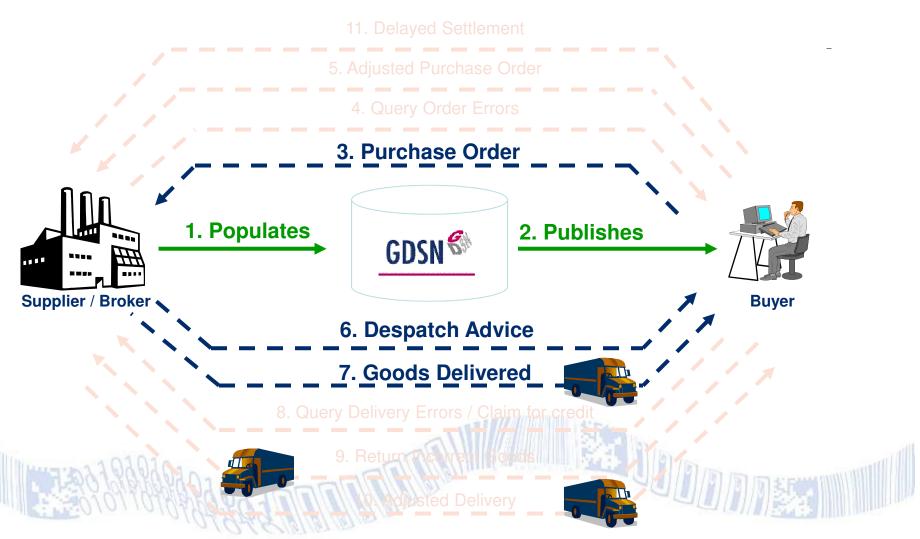
Enables trading partners to share reliable master data







After Data Synchronisation





For more information



www.gs1.org/gdsn



Contact Details

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GS1 Global Office

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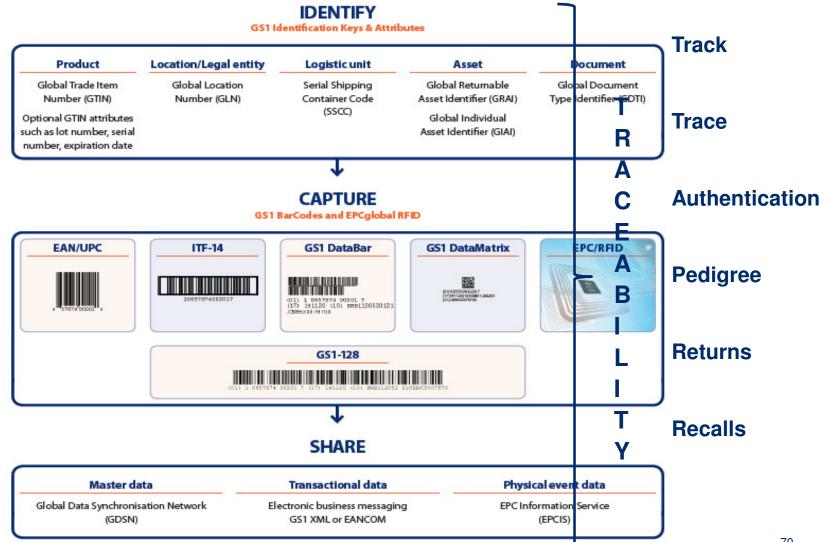
Traceability in Healthcare

Janice Kite
Traceability Director Healthcare
Global Office





The GS1 System





GS1 Members Vision for Traceability in Healthcare

Full, End to End, actionable visibility of finished pharmaceuticals and medical devices in healthcare globally, from Point of Production¹ to Point of Use²

- All authentic **items** are identified with the appropriate **GS1 Identification Keys** (e.g. GTIN) and appropriate **Application Identifier** (Al, e.g. Serial No. Al(21)), if applicable, at point of production
- Supply chain identifiers are associated with the patient and remain with/on items throughout their intended useful life
- All physical locations are identified with the appropriate GS1 Identification Key (e.g. GLN) across the entire supply chain
- All patients and care givers, when in a care giving environment, are identified with the appropriate
 GS1 identification Keys (e.g. Al 8017; Al 8018)
- Agreed master data is captured and shared (e.g. via GDSN) amongst trading partners
- Agreed transactional data is captured and shared (e.g. via business-to-business messaging) amongst trading partners
- Agreed event data is captured and shared (e.g. via EPCIS) amongst trusted traceability stakeholders, based on data sharing/security policies

SO THAT:

^{1.} The terms production or producer can also mean commercially available, manufacture(r), creation(or), compounding(er)...

^{2.} The terms use or used can also mean consumed, infused, implanted, destroyed



GS1 Members Vision for Traceability in Healthcare

Full, End to End, actionable visibility of finished pharmaceuticals and medical devices in healthcare globally, from Point of Production to Point of Use²

SO THAT:

- Items can be tracked (forward / downstream) across the entire supply chain (production to use) in real time
- Items can be traced (backward / upstream) across the entire supply chain (from current location back to the producer) in real time
- Item identification is available for use at patient bedside to ensure the Patient Rights³ are achievable
- Patients Electronic Health Records (EHRs) are updated with agreed traceability information, including Care Giver identification
- Counterfeit products are detected when entering the legitimate supply chain
- A product recall would be fast, efficient and effective

^{1.} The terms production or producer can also mean commercially available, manufacture(r), creation(or), compounding(er)...

^{2.} The terms use or used can also mean consumed, infused, implanted, destroyed

^{3.} Pharmaceuticals (5): Right patient, right drug, right dose, right route, right time. Medical Devices (8): right device, right location, right time, right condition, right procedure, right anatomic site, right user



Traceability in Healthcare

Objective:

Ensure the GS1 System of Global Standards has both the process and technical standards necessary to achieve the GS1 Members Vision for Traceability in Healthcare

Approach: Two phases

TH-I - Process Standard - December 2007 to April 2009

TH-II - Technical Standards - April 2009 to date & ongoing





Traceability in Healthcare I (TH-I)

DELIVERED:



Global Traceability Standard for Healthcare (GTSH)

PUBLISHED 27th February 2009

 $\frac{http://www.gs1.org/docs/gsmp/traceability/Global\ Traceability\ Standard\ Healthcare.}{pdf}$

GTSH Implementation Guideline PUBLISHED 24th April 2009

http://www.gs1.org/docs/gsmp/traceability/Global Traceability Implementation
Healthcare.pdf





Global Traceability Standard for Healthcare (GTSH) and Implementation Guideline (GTSH IG)



GTSH: A PROCESS STANDARD



"Traceability is the ability to track forward the movement through specified stage(s) of the extended supply chain and trace backward the history, application or location of that which is under consideration"



- Establishes minimum model for Traceability: "One Up, One Down"
- Establishes key concepts:
 - A. In parallel with the flow of product there has to be a flow of information about the product
 - B. Inputs (e.g. receipt) must be linked to outputs (e.g. shipments / dispensing)
 - C. 'Parties' and 'Roles': Parties can have varying roles
- Details 18 Business Requirements (Needs)
- 30 Business Rules (Controls or Constraints)
- Details the <u>corresponding GS1 [technical] standards</u> used within information technology tools

GTSH is not:

- A law or regulation
- A replacement for safety or quality programs
- A replacement for a service or solution provider

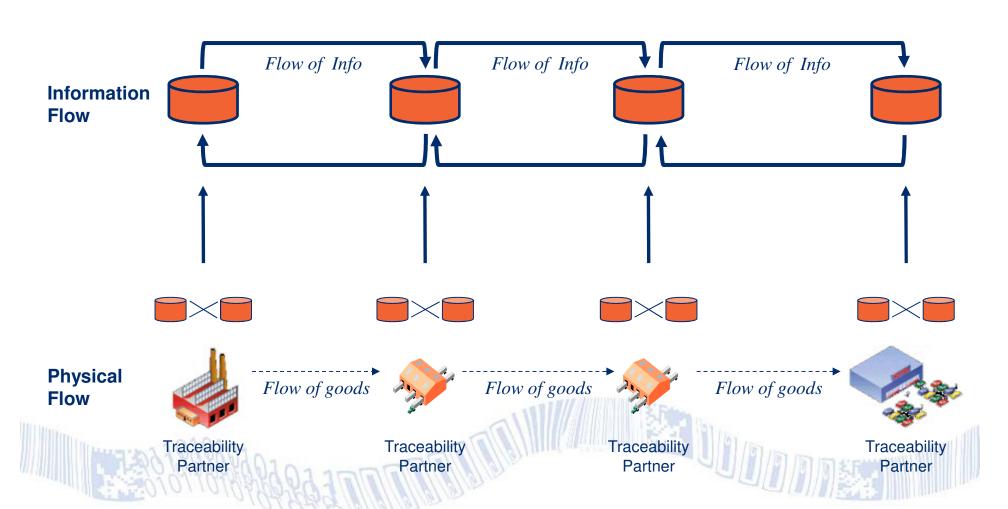






GTSH "One up, One down"







GTSH Implementation Guideline

- "The purpose of this document is to assist any/all stakeholders in the global healthcare supply chain to implement a traceability system in line with the GS1 Global Traceability Standard for Healthcare (GTSH) utilising the GS1 System of standards...
- For products, in scope are all pharmaceutical products and all medical device products. Out of scope is implementation of traceability related to non-medical products supplied to Healthcare providers (e.g. food, information technology), blood and blood products.
- For supply chain, the start and end points in scope are from manufacturer of finished goods, including products created in the care facility, throughout the product's intended useful life. Out of scope is implementation of traceability related to patients and healthcare professionals (HCPs) and End of Life Environmental regulations (e.g. European Waste Electrical and Electronic Equipment (WEEE) Directive)"



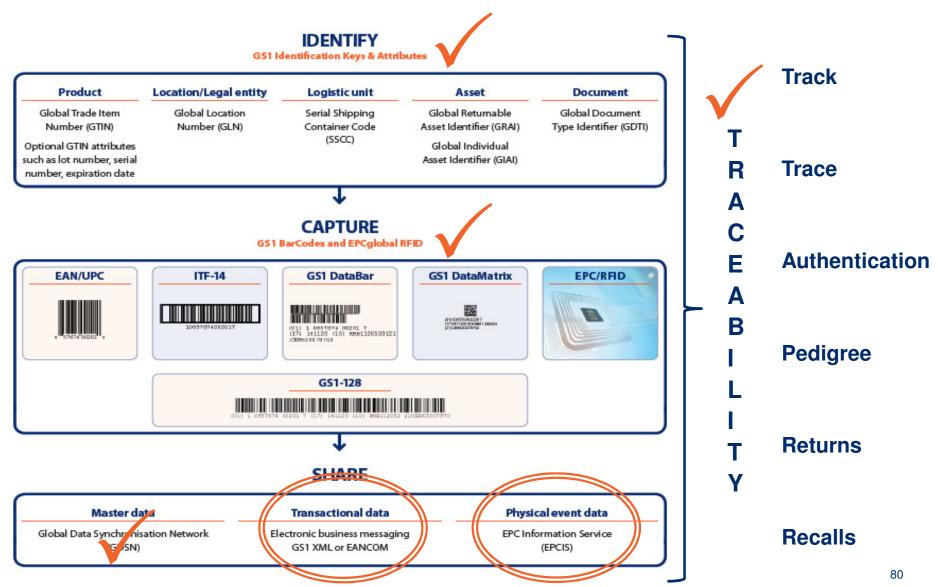
Traceability Standards Development since 2007

CURRENT FOCUS



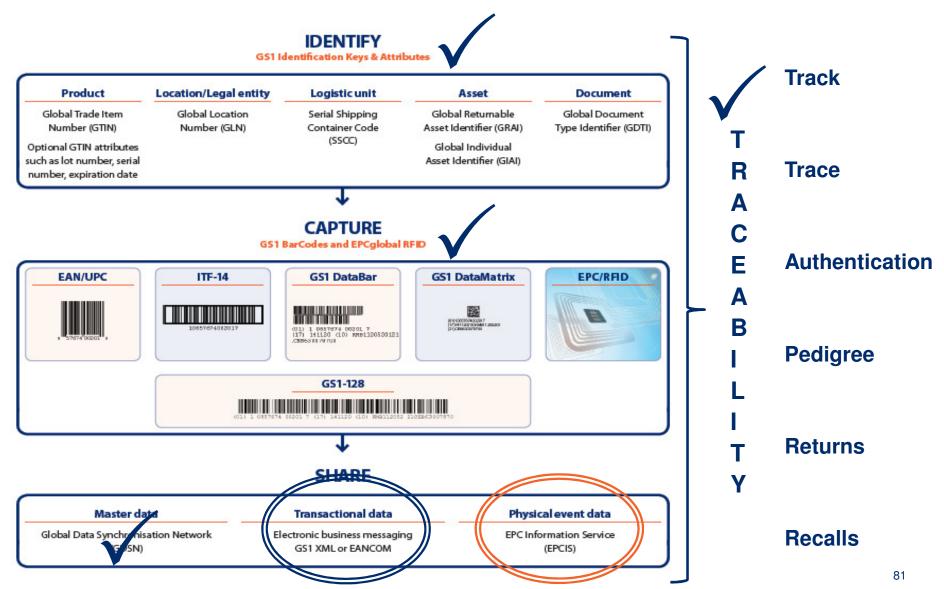


The GS1 System





TH-II: Physical Event Data





Physical Event Data > Visibility Recall example

What: what physical objects were involved (e.g. sGTIN in

a GS1 Carrier)

e.g. (01)10222222333334(21)12344(10)A1345B

When: when the event took place (timestamp)

e.g. 110922 (22nd September 2011)

Where: where the event took place (e.g. GLN)

e.g. 750620605 (Goods In, The General Hospital)

Why: what business process step was being carried out

(e.g. receiving, shipping...)

Receiving

The 4 W's



TH-II Project Strategy

- ✓ Phase I: March 2009 September 2011
 - ✓ Create list of Use Cases
 - Chain of Custody / Chain of Ownership (CoC/CoO)
 - Product Identifier Authentication
 - ✓ Gather Business Requirements for each Use Case
 - ✓ Determine work of Phase II (and subsequent phases)
- ✓ Phase II: January 2012 March 2012
 - ✓ Standards Gap Analysis to identify
 - Technical Models: Centralised, Semi-Centralised, Distributed
 - where a new standard(s) might be necessary
 - where existing standard(s) might need changing
 - ✓ Develop necessary Work Request(s) (WRs)



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Background Information - Standards Gaps vs Models



		Centralized Models			Distributed Models				
	Standards Gap	1	2a	2b	3	4	5	6	7
WR12-126 -	1 Definition of EPCIS events needed to form pedigree	√	√	✓	√	✓	√	√	✓
	2 CBV enhancements to support above	✓	✓	✓	✓	✓	✓	✓	✓
	3 Definition of pedigree checks, given events are gathered	✓	✓	✓	✓	✓	✓	√	✓
WR12-127	4 Central checking service request/response protocol	√	✓	✓				✓	
	5 Choreography/security for centralized models (including use of ONS for semicentralized)	√	✓	√					
	4 & 5 includes addressing gaps for Product Identifier Authentication (PIA)								
Nin.	Choreography/security for distributed models (including use of Discovery Services in some models)	11///			√	✓	√	√	√
1695-T	Enhanced ASN/DA	IIII me	Thirting I	MIN (mer.	I/IIII/ Ma	/
	"Router" service			✓	7				A HEATTER



Traceability in Healthcare MSWGs:

Pedigree Security, Choreography and Checking Service (SCCS) MSWG

Goal

Develop standards to allow pharmaceutical supply chain parties striving to meet pedigree regulation requirements, focused on gathering and checking pedigree event data. Standards will also address data confidentiality and integrity. This MSWG will create A) standard for security framework applicable to EPCIS and Discovery Services and B) pedigree checking service.

Status

MSWG established and meeting regularly

Timeline
 BRAD eBallot June 2013



Traceability in Healthcare MSWGs:

Enable Network Pedigree MSWG

Goal

Create new standard to enable Pedigree validation – a 'profile' standard above EPCIS that defines the types of EPCIS events and fields... that need to be captured for pedigree data. Will also define which tests need to be performed to verify pedigree data validity and integrity.

Status

MSWG currently on hold due to US pilots in progress; gap analysis

Timeline

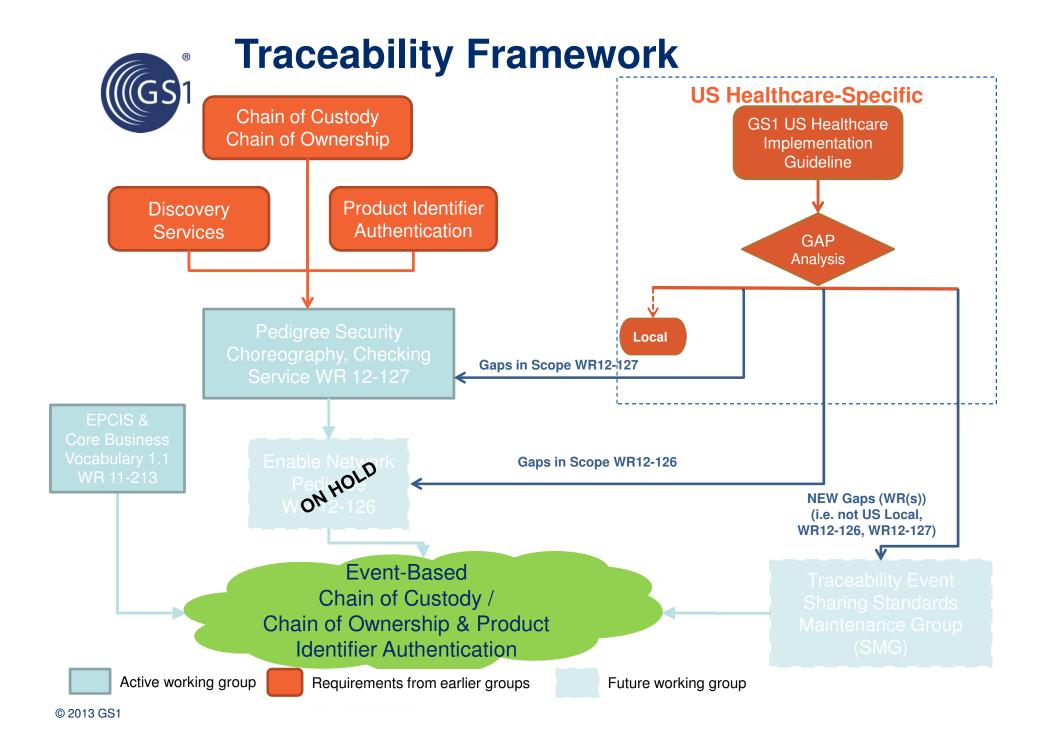
Scheduled to start Q2 2013



Where are we now

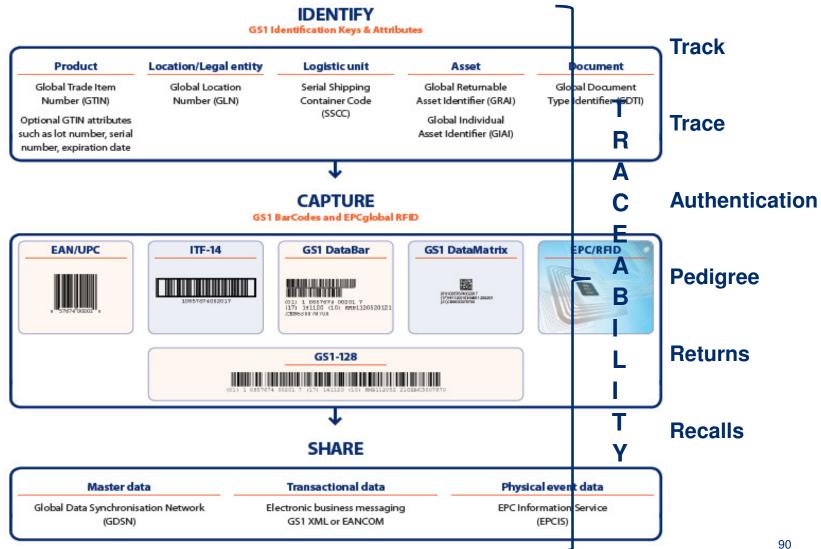
WR12-126

- Approval of Statement of Business Need to enable Mission Specific Work Group (MSWG) to form and begin work – by June 2013
- Completion estimated end Jun 2015
- WR12-127 http://community.gs1.org/apps/org/workgroup/gsmppedsccsmswg/
 - Developing BRAD scheduled completion end of June 2013
 - Completion estimated end June 2014
- WR11-213 http://community.gs1.org/apps/org/workgroup/gsmpepcis1_1cbvmswg/
 - BRAD completed to progressed to community review
 - Completion estimated end December 2013





The GS1 System





Contact Details

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W www.gs1.org/healthcare





- AIDC Application Standards
- Global Data Synchronisation & Product Classification
- Traceability in Healthcare
- Public Policy



GS1 Healthcare Public Policy

Introduction to Healthcare Public Policy Work Team

23rd Global Conference Buenos Aires





Public Policy Work Team





Public Policy WT Charter - Purpose

- Provide strategic leadership in the conduct and interaction with global public policy makers promoting harmonization of product identification at global level
- Provide a forum for open exchange of information between members
- Monitor the global regulatory landscape around the topics of healthcare and determine priorities for GS1 to engage in and act upon
- Establish a framework and repository of global regulations related to Healthcare: GS1 Healthcare Public Policy DataBase



Public Policy WT - Meeting Logistics

Meetings are scheduled bi-weekly and held via teleconference

- Meeting notices are sent to membership via Microsoft Outlook
- Currently scheduled on Wednesdays

CET 16:30 – 17:30

EST 10:30 – 11:30

GMT 15:30 – 16:30

All documents available online in GS1 HCPP Community room

Registration necessary – access only for GS1 Healthcare members



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97



Country development adoption slides

- Developed by GS1 Healthcare Public Policy Work Team
- Complete and updated overview of regulatory dev. worldwide
- Access to this slide-deck is limited to members of GS1 Healthcare
- GS1 legal dept. included a copy-right notice: should not be used without GS1 authorisation and should not be circulated outside of GS1 Members.



Public Policy WT Charter - Purpose

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GS1 HC Public Policy Database

- Online repository: http://healthcare.gs1.org/pp/
- Relevant latest regulatory requirements at national, regional and local levels
- Information received by:
 - worldwide network of over 111 GS1 MOs,
 - members of the global GS1 Healthcare community,
 - Healthcare governmental bodies and regulators
- Access to this DataBase is limited to members of GS1 Healthcare



Search

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Sectors & Collaborations

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GS1 Healthcare Public Policy database



Welcome!

This database provides the latest relevant regulatory requirements at a sholder a seements and user requests related to Healthcare product identification, product catalogues and traceability at national, regional and local levels.



Not yet a member?

This information is only accessible for global GS1 Healthcare members and GS1 Member Organisations.

Each registration application will require approval by GS1.

- Register here to access the GS1 Healthcare Public Policy Database
- Join GS1 Healthcare

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Browse DataBase

Advanced search

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GS1 Healthcare Public Policy Database - Browse database

This browser shows the regions and countries which are in the database. You can sort them alphabetically following the different sections of the table by clicking on the section title.

For a quick search you can also enter date (dd-mmm-yyyy) or text format

1 <u>2345Last</u>									
Region	Country	Enforcement <u>Date</u>	Product Type	<u>Authority</u>	<u>Title</u>	<u>Last Update</u>			
Asia Pacific (AP)	China			State Food and Drug Administration (SFDA	e-coding/serialisation	08-Feb-2013 📭	PDATED		
Central & Eastern Europe (C&EE)	European Union	01-Oct-2012	Med. Dev.	Europea. Commis on	Proposal for a Regulation of the Europea	06-Feb-2013 🔑	PDATED		
Asia Pacific (AP)	Japan	01-Jun-2012	harma	L our nd Welfare	Revised Implementation Guideline for Bar	25-Jan-2013			
Asia Pacific (AP)	India		Ph. na	G ernn ent of India Mi stry of Commerc	Procedure relating to tracing and tracki	16-Jan-2013			
Western Europe CEFTA	Germa		Pham	Min try of Health if A- Infamationsste		15-Jan-2013			
Western Europe & EFTA	Finland		:/harma	Finnish Medicines Agency (Fimea)		07-Jan-2013			
Asia Pacific (AP)	Australia		MedDev/Pharma	NEHTA (National eHealth Transition AUtho		19-Dec-2012			
Western Europe & EFTA	Netherlands		Pharma			18-Dec-2012			
Central & Eastern Europe (C&EE)	Slovenia			Ministry of Health, Agency for Medicinal	Rules on labelling and on patient inform	14-Dec-2012			
- Western Furence 8	European Union	12-Dec-2012	MedDev/Pharma	Furancan Commission	eHealth Action Plan 2012 -2020 - Innovati	12-Dec-2012			

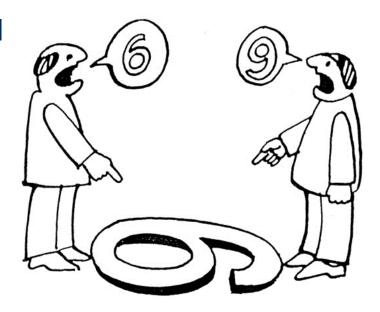
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GSPublic Policy WT Charter - Communication

- Serve as representatives of GS1 Healthcare, in interactions with local MOs, for communication and consultation with global public policy makers
- Provide a communication plan and structured templates as a means to providing a consistent approved communications





Outreach/Communication:

Responses, Position Statements, Fact Sheets

- Submission to TGA public consultations
- Letter to Saudi Arabia FDA providing comments on the draft Guidelines on barcoding
- Comments on US FDA UDI proposed rule and on EU draft Recommendation on UDI
- Draft Discussion paper on Mobile Authentication Services for pharmaceuticals







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