



GS1 Healthcare: Global Data Synchronisation Network (GDSN) Updates

1 April 2010





GS1 Healthcare Topics

- GDSN Defined
- Standards update
- Implementation Updates
 - GDSN global pilot results
 - GDSN Global Implementation Project Phase 2 results
 - GDSN Global Implementation Project Phase 3 updates
- Questions



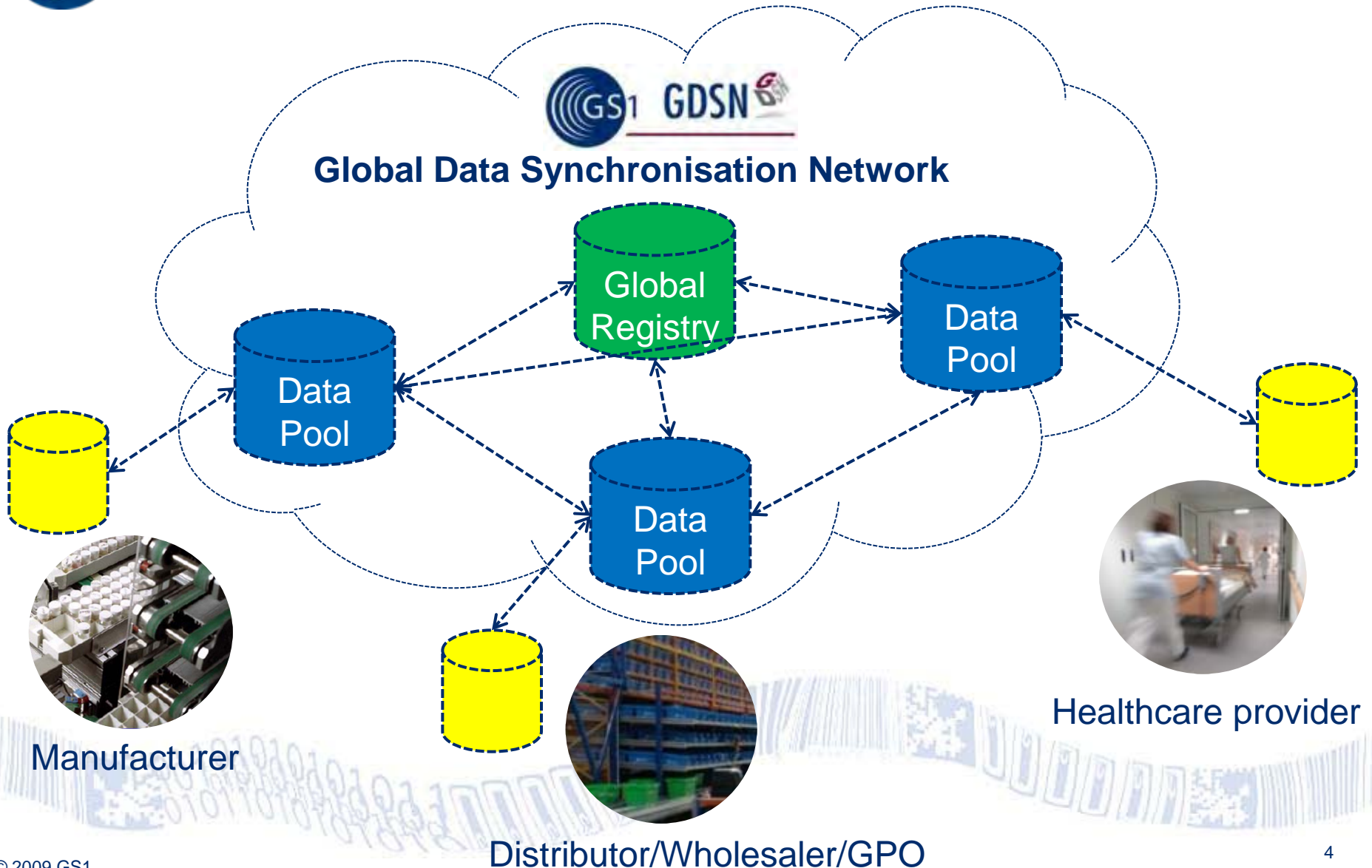


Synchronizing data in Healthcare

GS1 GDSN

Global Data Synchronisation Network





Data pool

- GDSN-Certified
- Electronic catalogues of standardized master data
- Ensure the confidentiality and integrity of user information
- Are fully interoperable

Global Registry®

- GDSN's "information directory"
- Details who has subscribed to trade item or party data
- Guarantees the uniqueness of the registered items and parties





GS1 Global Registry Attributes

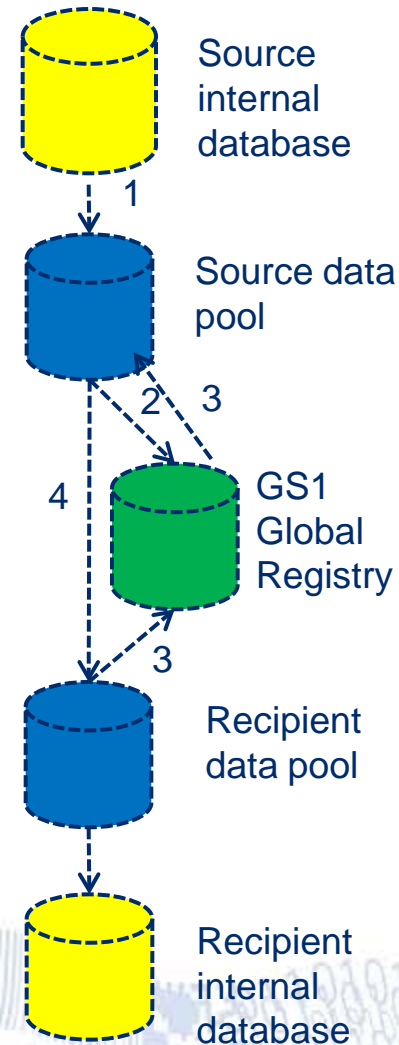
	Mandatory attributes	Description
1	GLN of source Data Pool	The data pool that serves as the entry point into the GDSN and connection to other GDSN certified data pools. (contentOwner)
2	GLN of data source	Entity that provides the GDSN with Master Data. (dataSource).
3	GTIN	The Global Trade Item Number of the product (drugs, medical device, non medical supply (e.g. light bulbs). (gTIN)
4	Target Market Country Code	The country product is intended to be sold. (targetMarketCountryCode). NOTE: Target Market Subdivision Code is optional part of Target Market
5	GPC	The Global Product Classification is the GS1 classification system used in the Global Registry. The GPC identifies a category for the product (GTIN) registered. (classificationCategoryCode)
6	State	The status of the product registered. The states are: Registered , Cancelled, and Discontinued. (state)

The following attributes are in the messaging and are used in the item registration and item maintenance processes (although they may not always be mandatory).

7	Date (conditional)	Attribute names: registrationDate , cancelDate , discontinuedDate , lastChangeDate . The last changed date is generated by the Global Registry.
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Healthcare How the GDSN Works



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 supplier of the action taken by the buyer using the information



GDSN use today

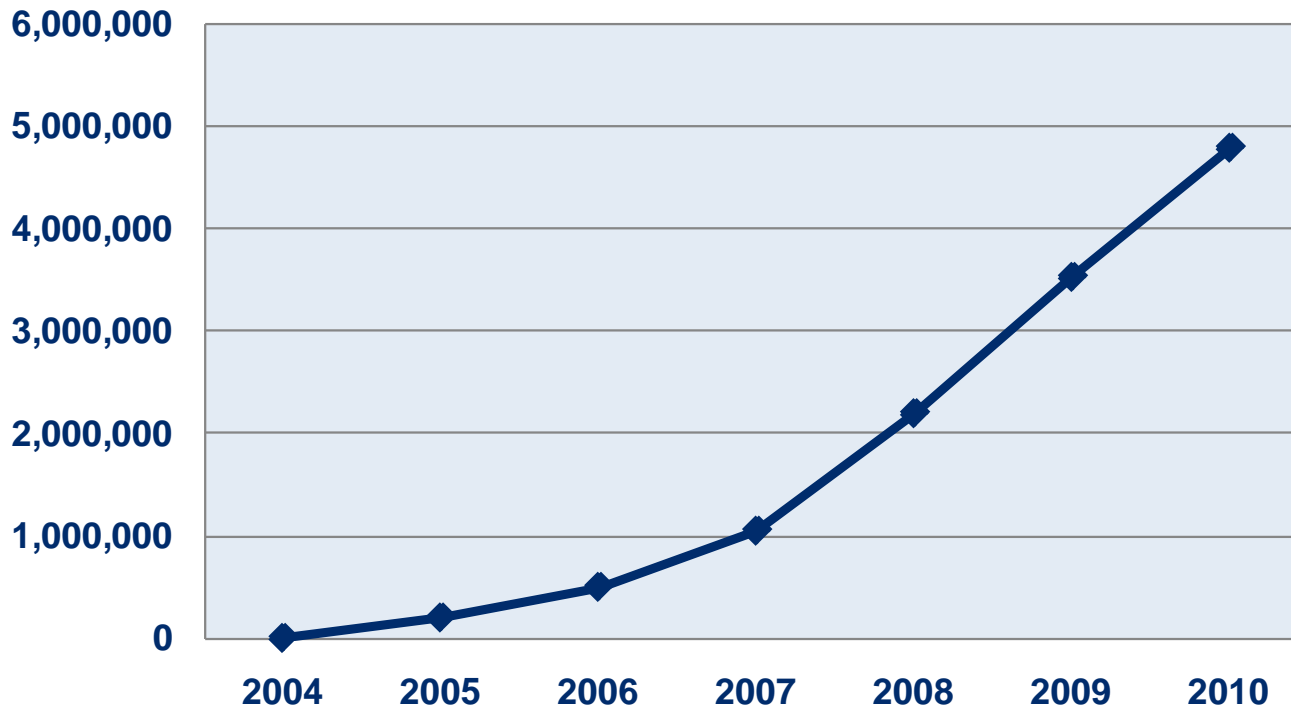




Healthcare GDSN in 5 years...

4,800,000 items
23,200 trading partners

Items registered in the Global Registry





Healthcare GDSN in the world...



**28 GDSN-certified data pools support GDSN in
> 90 countries**





Healthcare **GDSN in action...**



Over 20,000,000 messages per year
from one DP to another DP
processed by the Global Registry



GDSN in various sectors...



**Consumer Packaged Goods
Retail**

Expanding to:



Healthcare



Consumer Electronics



Hardlines



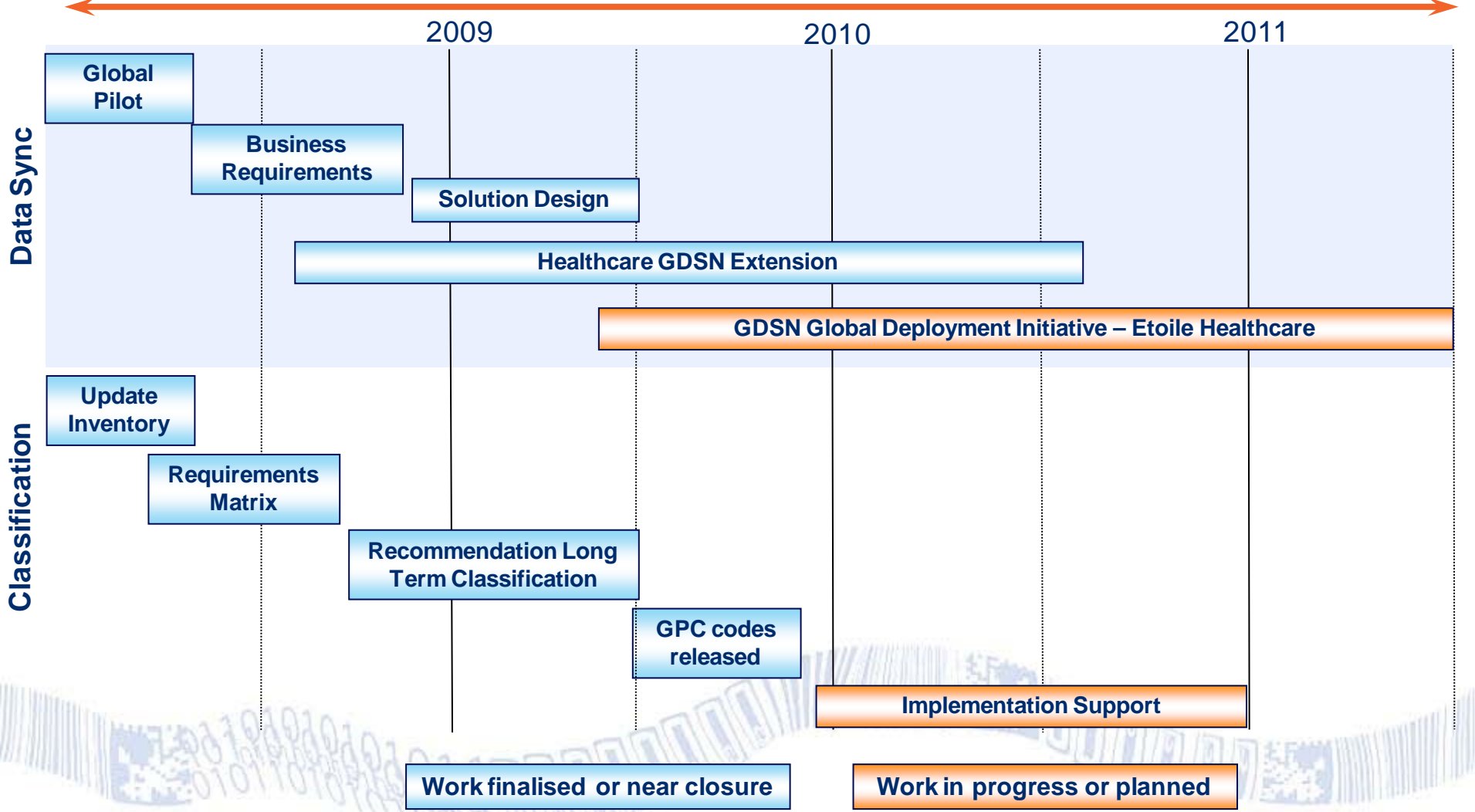
Healthcare Standards Completed!





Healthcare Roadmap towards Global Standards

Data Synchronisation & Product Classification for Healthcare





Healthcare Healthcare Extensions Work



- Change Request was entered into the GSMP to close the standards gap
- 33 new data requirements are being added to the GDSN standard
- A GDSN Extension for healthcare has been created
 - eBallot approved 17-Mar-2010
 - Available in GDSN production late October 2010





Healthcare GLN Healthcare Guideline

GLN in Healthcare Implementation Guide now available

The Global Location Number (GLN) is a globally unique GS1 Identification Key that is used to identify any physical location or legal entity in the supply chain that needs to be unambiguously identified.

The Healthcare GLN Work Group announces the availability of the GLN In Healthcare Implementation Guide. This document serves as a general guide for the implementation of GLNs in healthcare.

[Download the implementation guide](#)

Having trouble downloading the document, visit our resource library at www.gs1.org/healthcare/library.

São Paulo post-event website now live

Over 200 healthcare supply chain stakeholders from 20 countries have participated in the 16th Global GS1 Healthcare Conference last week in São Paulo, Brazil (16-18 March 2010). Over 20 experts have shared their insights on important industry and regulatory developments in automatic identification, traceability and electronic product catalogues. All presentations and some photos are now available at our post-event website. Videos from the plenary sessions are currently being edited and will be added soon. Stay tuned...

[Visit the São Paulo post-event website](#)

SAVE THE DATES! Our next Global GS1 Healthcare Conference will be held in Geneva, Switzerland from 22 to 24 June 2010.

About us



Linked





Healthcare Healthcare Classification Work

The creation of two new high-level GPC Bricks to support the healthcare sector (“Drugs” and “Devices”). The healthcare sector needs to gain experience with the GDSN. It is recommended that GS1 Healthcare return to the problem again in perhaps two years time (2011).

Brick	Definition	Examples
Drugs GPC Code: 10005845	Any chemical compound used in the diagnosis, treatment, or prevention of disease, and that achieves its primary intended purposes through chemical action within or on the body.	Includes all drugs and biologicals and therapeutic nutritionals, both human and veterinary applications.
Medical Devices GPC Code: 10005844	Products, other than drugs, predominately designed and marketed for use in the diagnosis, treatment, or prevention of disease.	All medical equipment, devices and supplies, from cotton balls to MRI machines, e.g. IVDs, implants, surgical instruments, exam gloves, gauze pads, suture, syringes, needles...for both human and veterinary applications. All branches of healthcare services are included: internal medicine, surgical, oncology, dental, emergency...



Global GDSN Healthcare Pilot

Completed June 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 <http://www.gs1.org/sectors/healthcare/library/>



Global GDSN Implementation

Launched June 2009





Healthcare **GDSN for Healthcare...Vision**

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





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.





Goal: Single global source of truth for product data

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

Participants (as of March 2010)

Demand hospitals, Group Purchasing Organizations (GPOs), Distributors, Retail Pharmacies	Supply Manufacturers	Data Pools
Aurora Health Care (Hospital)	Abbott	1SYNC
University of Kentucky (Hospital)	Alcon	Health ConneXion (GHX)
University of Mississippi Medical Center	Baxter	SA2 Worldsync
University Hospital, Augusta, Georgia	Becton Dickenson	
Waldo County General Hospital	Cook Medical	
Ohio State University Medical Center	CR Bard	
Amerinet (GPO)	De Kroyft – Metz	
Novation (GPO)	Johnson & Johnson	
Premier (GPO)	Kimberly-Clark NA	
Walgreens (Retail Pharmacy)	Sage Products	
Cardinal Health (Distributor)	Upsher-Smith	
De Kroyft – Metz (Distributor)		
Owens and Minor		

Global GDSN Implementation Initiative for Healthcare

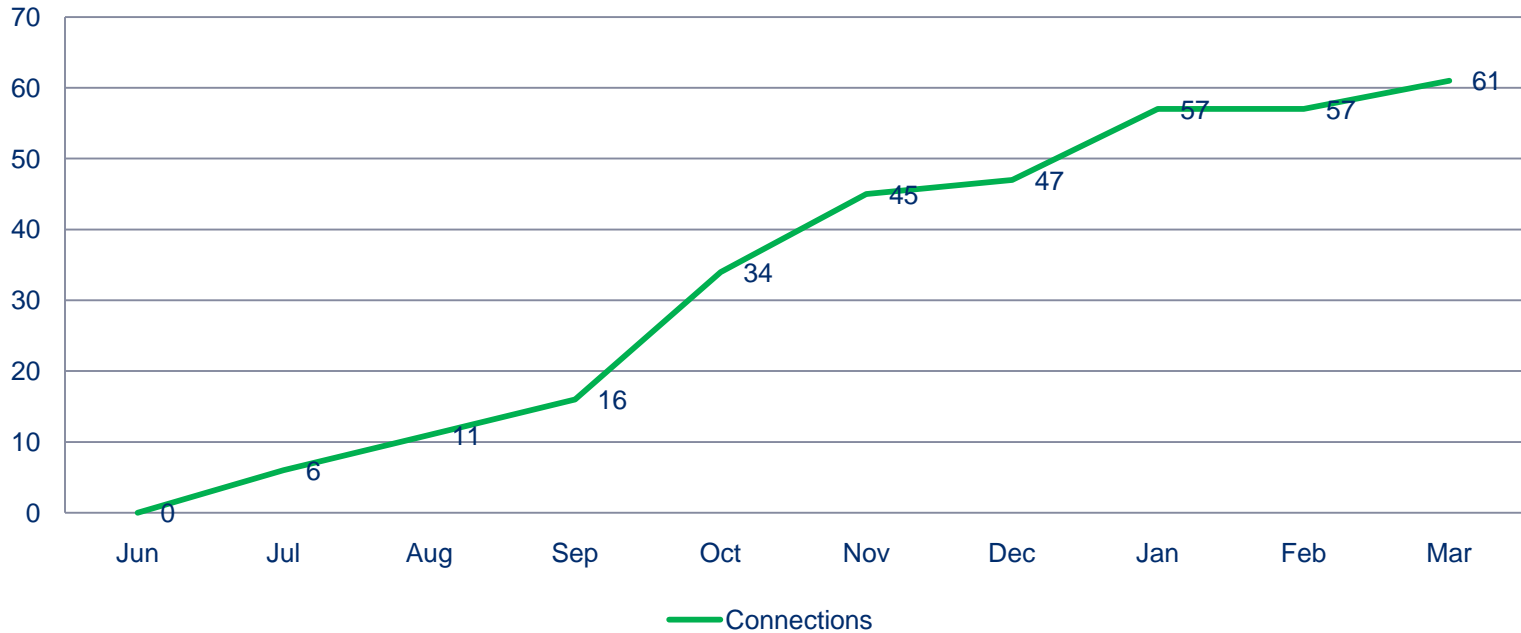


- Launched June 2009
- Today:
 - Participation: 24 healthcare organisations
 - Connections: 61 live
 - Finalised Phase 2 report: sharing lessons learned
- Next step:
 - Expansion to more countries and more participants



Healthcare Phase 2 and 3 Connections

Connections



- **99** potential connections
- **61** live connections as of this call
- **62%** complete

		Hospitals								GPOs			Retailer	Distributor		
Providers Retail Pharmacies		Aurora Health Care	University of Kentucky	University of Miss. Medical Center	University Hospital Augusta, Georgia	Sisters of Mercy Health Systems (SMHS)	Waldo County General Hospital	PHP Hospitals	University Community Hospitals UCH Tampa	Amerinet	Novation	Premier	Walgreens	Cardinal Health	Owens and Minor	De Kroyft - Metz
Suppliers / Distributors	Primary Data Pool	GHX	GHX	GHX	GHX	GHX	GHX	1SYNC	1SYNC	1SYNC	GHX	1SYNC	SA2	1SYNC	GHX	GHX
Abbott	1SYNC	X	X	G	X	X	G	NP	NP	G	G	G	G	G	NP	G
Alcon	1SYNC	NP	NP	G	NP	X	G	G	NP	G	G	G	NP	G	NP	NP
Applied Medical	1SYNC	X	X	X	X	X	X	X	X	G	X	G		X	X	X
Baxter	GHX	G	X	G	G	G	G	G	G	G	G	G	NP	X	NP	G
BD	GHX	G	G	G	G	G	G	G	X	G	G	G	NP	G	NP	G
Cook Medical	1SYNC	X	X	X	X	X	X	NP	NP	X	X	X	NP	NP	NP	NP
CR Bard	GHX	X	X	X	G	G	G	NP	NP	G	X	G	NP	NP	NP	X
Georgia Pacific	1SYNC	NP	NP	NP	NP	NP	NP	NP	NP	G	G	G	NP	NP	NP	NP
J&J Healthcare	GHX	NP	NP	NP	G	X	NP	NP	NP	NP	X	NP	NP	NP	NP	NP
J&J Consumer	1SYNC												G			
Kimberly-Clark NA	1SYNC	NP	NP	NP	NP	X	X	NP	NP	G	G	G	NP	NP	NP	NP
Sage Products	1SYNC	NP	NP	NP	NP	NP	G	G	G	G	G	G	NP	NP	NP	NP
Upsher-Smith	SA2	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	G	NP	NP	NP

TOTAL

Trading Partner Pairing Not Planned this Phase Informaton Missing Live Connections (Green)	99	81	0	61													
		4	5	3	3	6	3	1	2	1	4	1	0	2	1	2	
		6	6	5	5	3	3	7	7	2	1	2	9	7	11	7	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	1	4	4	3	6	4	3	9	7	9	3	3	0	3	

Connection Goal	99	Percent Complete 61.62%	Matrix Total 180	To be completed by 31 Dec 38
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Healthcare Phase 3 Goals and Planning

Countries already in production with the GDSN (Australia & US)

- Alignment of goals and measures with local programs.
- Validate and develop action plans for OGSM goals drafted by this group (see appendix slides)

Expansion to new countries (Canada, Colombia, Mexico, Netherlands, Sweden)

- Initiate discussions with MOs and multinationals with local operations (validate target countries).
- Alignment of plans between global deployment and local MO / data pool implementation.

Etoile Healthcare: Deliver greater value for the existing participants

OBJECTIVE: Create a single global source for product data in healthcare (drugs & devices)

STRATEGY: Focus on countries already implementing the GDSN (Australia & US)

GOALS: Synchronize more products with more trading partners

Measures: GLNs and GTINs in the GS1 Global Registry

ACTION PLANS	TARGETS	RESPONSIBILITY
<p>1) Minimum 80% of products transacted between trading partners (TP) to be synchronized via the GDSN.</p> <ul style="list-style-type: none"> 1) Of in scope products 2) e.g, measurements=% of sales, % SKUs, % of contract items <p>2) Determine critical mass of connections or trading partners.</p> <p>3) Data Pool</p> <ul style="list-style-type: none"> A) interoperability & connectivity. B) ability to handle / manage GLNs and GTINs = e.g. interface <p>4) Establish data quality measures and correction (data governance)</p> <p>5) Business Process Optimization</p>	<p>Quantitative measures that equal success</p> <p>1a) Report % sync-ed between individual Trading Partner agreements.</p> <p>1b) Critical set of attribute data designed to facilitate transactions.</p> <p>2) Look at current supplier and provider population vs market share as a baseline / potential of penetration. (e.g. % of market = X)</p> <p>3) A) % of EDI 850 (Purchase) transactions using GLN and GTIN: B) % of EDI 810 (Invoice) transactions using GLN and GTIN (focus on sample set of prod?)</p> <p>4) Baseline and improvement rates on data quality. (e.g. set a base number of attributes and measure how many were correct)</p> <p>5) Determine the business processes which can be optimized with the use of GDSN data.</p>	<p>1a) All</p> <p>1b) All</p> <p>2) GS1 Australia and US</p> <p>3) Trading Partners</p> <p>4) Trading Partners</p>

Etoile Healthcare: Expansion to new countries

OBJECTIVE: Create a single global source for product data in healthcare (drugs & devices)

STRATEGY: Focus on target markets

GOALS: Establish GDSN adoption in new countries

Measures: New trading partners and data pools

ACTION PLANS	TARGETS	RESPONSIBILITY
<p>1)Get commitment from target countries to start GDSN <u>implementation</u>.</p> <ul style="list-style-type: none"> •Canada, Colombia, Mexico, Netherlands, Sweden <p>2)Develop an <u>outreach</u> program in target countries</p> <ul style="list-style-type: none"> •Brazil, Chile, France, Germany, India, Spain 	<p>1a) Alignment of plans between global program (deployment) and local MO / data pool (implementation).</p> <p>1b) Communication between Mfg corporate, local division and MO and data pool.</p> <ul style="list-style-type: none"> • Identify key participants in each target country. • Tool kits other support tools • Alignment of Phase 2 Implementation report, other data flow models, National Product Catalogs connected to the GDSN and attributes used. <p>2) MO support</p> <ul style="list-style-type: none"> • Set as priority in the target market • Implementation connectivity tool kit • Alignment of Phase 2 Implementation report, other data flow models, National Product Catalogs connected to the GDSN and attributes used. 	<p>1) Multinationals, GS1 MOs and data pools</p> <p>2) Multinationals and GS1 and MOs</p>



Healthcare GDSN Summary

October 2010: GDSN Healthcare Extension available

Mid 2009: Launched GDSN Implementation

Mid 2008: Completed global GDSN Pilot

Early 2008: Completed standards gap analysis

Early 2007: Launch work teams to analyze situation and GDSN Standards



Contact Details

Grant Hodgkins

Alcon Labs

T +1 817 551 6892

E grant.hodgkins@alconlabs.com

Mac Young

Waldo County General Hospital

T +1 207 930-2565

E isedu@wchi.com

Pete Alvarez

GS1

T +1 609 557 4547

E peter.alvarez@gs1.org

