

AGENDA

- **Who is GS1™?**
- **Why Standards Are Important**
- **Current Initiatives**

Who is GS1?

GS1 is a not-for-profit organization dedicated to the design and implementation of **global standards** to improve the efficiency and visibility of **supply chains** globally and across sectors

- **108** member organizations
- **35** years of experience
- **Neutral** platform for all supply chain stakeholders
- Over a **million** companies doing business across **150** countries
- Over **6 billion** transactions a day

GS1 is the most widely used supply chain standards system in the world



The Global Language of Business

OVERALL BENEFIT:
Eliminate Disruptions and Reinvest In Growing The Business

BarCodes and eCom™

- GS1 System identification numbers
- Bar code standards
- Electronic commerce transaction standards using EDI and XML
- Training and education
- Implementation support



- U.S. Member Organization of EPCglobal Inc™
- Promotes implementation and adoption of EPCglobal Standards and EPC/RFID technology
- Training and education
- Implementation support



- Independent Data Pool
- Data Synchronization Services
- Participant and supporter of Global Data Synchronization Network
- Training and education
- Implementation support

ROSETTANET

- Consortium of high-tech and other industries
- Business Process Standards
- Enablement services
- Implementation support

GS1 US

- Founded in August, 1970
- 250 Employees (7 in Healthcare)
- 23 Industries Served
- Over 200,000 Customers (16,000 in Healthcare)
- GS1 Healthcare US Launched 1/1/08
- UNSPSC Administrator (2003)



Why Standards Are Important



Global standards are ubiquitous in many supply chains, but there are still a lot of challenges in healthcare where global standards will enable solutions.



- **TIN**

GTIN – Global Trade Item Number

Expiry Date

Lot Number

Serial Number

Product Identifier - e.g. UPC, used in all retail / grocery / hardlines)

- **LN = Global Location Number**

Identifier for all trading entities: Providers, GPO's, Manufacturers, Distributors)

- **DSN = Global Data Synchronization Network**

Electronic, continuous, real-time source of truth for databases)





What is the Provider Pain?

Too many identifiers for the same healthcare location -- confusion, finger pointing, inefficiency

SAINT JOHN'S QUEENS HOSPITAL
1100004570208

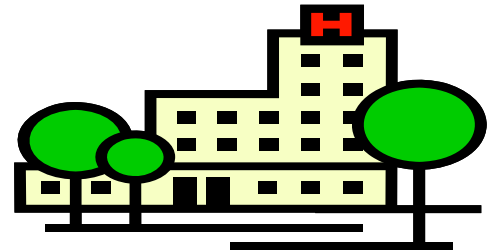
ST JOHN'S QUEENS HOSPITAL
100084547

SAINT **JOHNS** QUEENS HOSPITAL
JAOE

SAINT JOHN'S **QUEEN** HOSPITAL
50003000431

SAINT JOHN'S **QUEEN'S** HOSPITAL
CA2053

ST. JOHN'S QUEENS HOSPITAL
OM 12345



Many different names
different location numbers
for 1 hospital

Same Product – Different Numbers*

Industry Distributor Numbers for 3M Product # 8630:

Allegiance	- M8630
Owens & Minor	- 4509008630
BBMC-Colonial	- 045098630
BBMC-Durr	- 081048
Kreisers	- MINN8630
Midwest	- TM-8630
Pacific	- 3/M8630
UnitedUMS	- 001880

Nearly every hospital has a different Product ID for 3M 8630! Makes ordering, recalls, and proper identification to the patient difficult.



Makes Sourcing of needed products difficult and increases errors in ordering and distribution to the patient.

■ *Part Number: 10313 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"

■ *Part Number: 1050 refers to:*

3M Company's - "DRAPE INCISE 35 3/8X 17 5/8IN"

Tyco's - "PAD TELFA 3 X 4IN STER"

GS1 Standards in Healthcare

Five Patient Rights

Right Patient
Right Drug/Device
Right Time
Right Dose
Right Route

Enable traceability and authentication systems

- Fight counterfeiting
- Effective & efficient product recalls
- Improve supply chain efficiency

Enable AIDC systems all the way to the point of-care or point-of-sale

- Ensure the 5 patient rights
- Reduce medication errors
- Improve supply chain efficiency

Enable regulatory compliance

- Pedigree legislation in California, etc.

Why Global Standards?



the package has:

- 17 flags (UK, Ireland, Malta, Netherlands, Belgium, Germany, Austria, France, Spain, Portugal, Greece, Cyprus, Norway, Sweden, Denmark, Iceland, Finland) (not Italy)
- 12 different language texts (English, French and German are used in more than one country).
- 6 machine readable codes (5 bar codes, 1 data matrix).

<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>	<p>Pedea 5 mg/ml</p> <p></p> <p>Pedea 5 mg/ml</p> <p></p>
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Current Initiatives

GS1 Healthcare US - Workgroups

Work Group		Work Group Participants
1.	Product Identification (GTIN) [®]	55
2.	Location Identification (GLN)	73
3.	GDSN [®] Implementation	74
4.	Traceability Adoption	100
5.	Application & Implementation	17

Industry Associations

- AHA - American Hospital Association
- AHRMM - Association for Healthcare Resource and Materials Management
- ASHP - American Society of Health-System Pharmacists
- CHSCR - Center for Healthcare Supply Chain Research
- GHVRHIO - Greater Hudson Valley Regional Health Information Organization
- GPhA - Generic Pharmaceutical Association
- HDMA - Healthcare Distribution Management Association
- HIDA - Health Industry Distributors Association
- MITA - Medical Imaging & Technology Alliance
- NACDS - National Association of Chain Drug Stores
- NCPD - National Coalition of Pharmaceutical Distributors
- NCPDP - National Council for Prescription Drug Programs
- SMI - Strategic Marketplace Initiative

Manufacturers

- Abbott Laboratories, Inc.
- Becton Dickinson
- Boehringer Ingelheim USA
- Bristol-Myers Squibb Company
- Covidien
- C.R. Bard
- Genzyme Corporation
- Johnson & Johnson
- Kimberly-Clark Corporation
- Medline
- Medtronic, Inc.
- Merck & Company, Inc.
- Pfizer, Inc.
- Sage Products, Inc.
- Talecris Biotherapeutics, Inc.

Solution Providers

- Accenture
- Acsis, Inc.
- Authentix, Inc.
- AXWAY
- Clarkston Consulting
- DataPros for Healthcare
- Deloitte Consulting
- GHX
- Inmar (DBA: MedTurn)
- Lawson Software
- Loftware, Inc.
- Ontuet
- Product Identification & Processing Systems, Inc.
- rfXcel Corporation
- Supplyscape Corporation
- Systech International
- Terso Solutions, Inc.
- VCG & Associates

Group Purchasing Organizations

- Amerinet
- Consorta
- MedAssets
- Novation LLC
- Premier, Inc.

Distributors

- AmerisourceBergen Drug Corporation
- Cardinal Health
- McKesson
- Owens & Minor

Hospitals/IDNs

- Ascension Health
- Atlantic Health
- BJC Healthcare
- Carolinas Healthcare System
- Duke University
- Geisinger Health System
- Intermountain Healthcare
- Johns Hopkins Health Systems
- Louisiana State University Health Sciences Center
- Mayo Clinic
- Ministry Health Care Inc.
- OSF Healthcare System
- Novant Health
- PeaceHealth
- Ridgeview Medical Center
- Sentara Healthcare
- Sisters of Mercy ROI
- SSM Healthcare
- UK Healthcare
- Wellspan Health

Government Agencies

- DoD/DMLSS - Defense Medical Logistics Standard S
- Dept. of Veteran Affairs
- FDA - US Food and Drug Administration

Academic Institutions

- CIHL - Center for Innovation on Healthcare Logistic

Retailers

- Walgreens Company

GS1 Healthcare US 2008 Strategic Plan: Global Data Synchronization Network® (GDSN®) Workgroup

Mission: Accelerate the adoption of GDSN standards in U.S. Healthcare and ensure data accuracy.

Strategies	Initiatives	Deliverables	Due Date: Status
1. Formalize Global Data Synchronization Network (GDSN) workgroup.	<p>Develop & approve mission for the workgroup.</p> <p>Develop & approve workgroup plan.</p> <p>Complete integration of GS1 Healthcare US GDSN and HSCSC data sync workgroups.</p>	<p>Publish mission.</p> <p>Publish workgroup plan.</p> <p>Integrate meetings.</p>	<p>Complete</p> <p>Complete</p> <p>Complete</p>
2. Define requirements for implementation of GDSN standards.	<p>Define set list of GDSN attributes (version 1.0) to be used for migration of DoD pilot participants to production.</p> <p>Continue to define U.S. requirements for the GDSN global standard.</p>	<p>Publish attribute list.</p> <p>Deliver requirements to GS1 Healthcare.</p>	<p>Q3 2008</p> <p>Ongoing</p>
3. Create communication tools and provide information necessary for stakeholders in U.S. healthcare to understand how to trade using the GDSN.	<p>Develop GDSN Provider Tool Kit.</p> <p>Develop GDSN Manufacturer Tool Kit.</p> <p>Review and promote GS1 Healthcare US webinars about standards in healthcare and GDSN.</p>	<p>Publish Provider Tool Kit.</p> <p>Publish Manufacturer Tool Kit.</p> <p>Conduct webinars.</p>	<p>Complete</p> <p>Q4 2008</p> <p>Ongoing / Q4 2008</p>
4. Coordinate GDSN promotional activities with specific healthcare associations.	<p>A) Continue to promote communications developed by GS1 US in collaboration with regulatory/certifying bodies and associations such as AHRMM and SMI.</p> <p>B) Continue to keep informed such groups as HIMMS, HIGPA, HIDA, HFMA and ADVAMED and work toward increased involvement with these and other important associations.</p> <p>Review and promote case studies and/or summaries of key findings about the following GDSN pilots:</p> <ul style="list-style-type: none"> · Dept. of Defense · Global Pilot 	<p>Publish summary of communications.</p> <p>Publish summary and key findings.</p>	<p>Ongoing</p> <p>Q4 2009</p>
5. Connect with global activities.	<p>Monitor, review & comment on global information from GS1 Healthcare.</p> <p>Demonstrate global interoperability of the GDSN by connecting DoD participants to trading partners outside the U.S. (e.g. Australia).</p>	<p>Report feedback to GS1 Healthcare US.</p> <p>Published summary of success.</p>	<p>Ongoing</p> <p>Complete</p>
6. Facilitate implementation of trading via the GDSN among trading partners in healthcare.	<p>Develop plan to migrate DoD pilot participants into a live production environment.</p> <p>Announce program to migrate DoD pilot participants into a live production environment.</p> <p>Publicly recognize early GDSN implementers/pioneers.</p> <ul style="list-style-type: none"> · Showcase successes and lessons learned · Present awards/recognition · Incentives for paving the way 	<p>Publish plan.</p> <p>Announcement.</p> <p>Presentation of awards at major conference.</p>	<p>Q3 2008</p> <p>Q4 2008</p> <p>Q3 2009</p>

Current Workgroup Initiatives

Tool Kits (GTIN, GLN, GDSN, UNSPSC)

Product Identification (GTIN)

- Defining GTIN use from manufacturer to the patient bedside to **improve patient safety** and reduce data errors

Location Identification (GLN)

- Identifying software system upgrades for GLNs
- Developing guidelines for obtaining and using GLNs

GDSN Implementation

- Defining healthcare product attributes
- Moving DoD participants from pilot to implementation

Provider Tool Kits: GTIN, GLN, GDSN, UNSPSC

Introduction to the Standards
Implementation Steps
Lessons Learned
Benefits to Healthcare Providers
ROI Hot Spots
FAQs

www.gs1us.org/hcptoolkit



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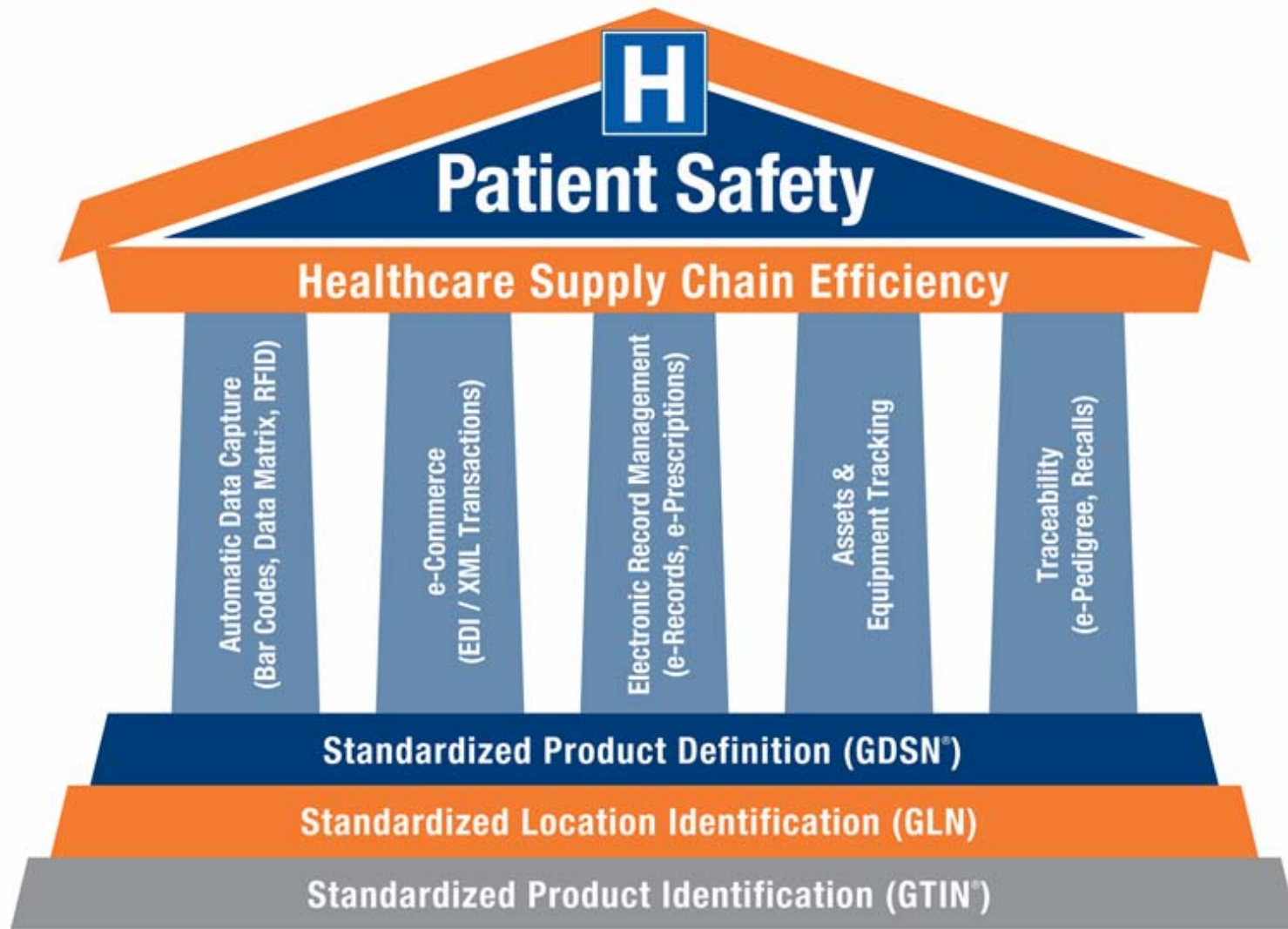
Traceability Adoption

- Developing Pedigree/EPCIS guidelines
- Creating educational material for Pedigree and traceability for industry and regulatory bodies

Application & Implementation

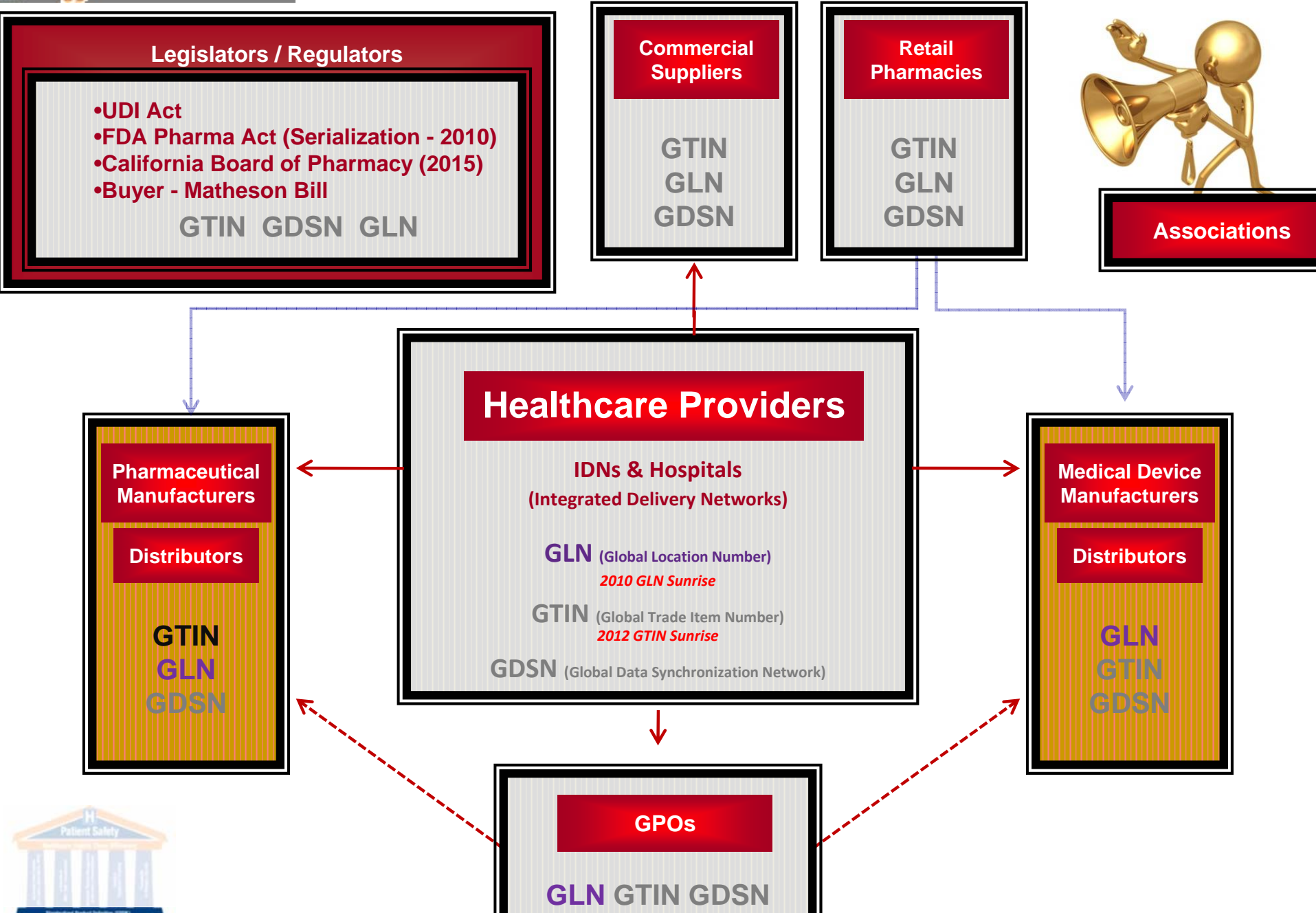
- Determining areas of greatest need for AIDC in hospitals
- Building an implementation blueprint for hospitals (GTINs, GLNs, and GDSN)
- Working with healthcare information systems providers to develop architectures supporting GS1 standards

“Building Patient Safety”



Standardization  Interoperability

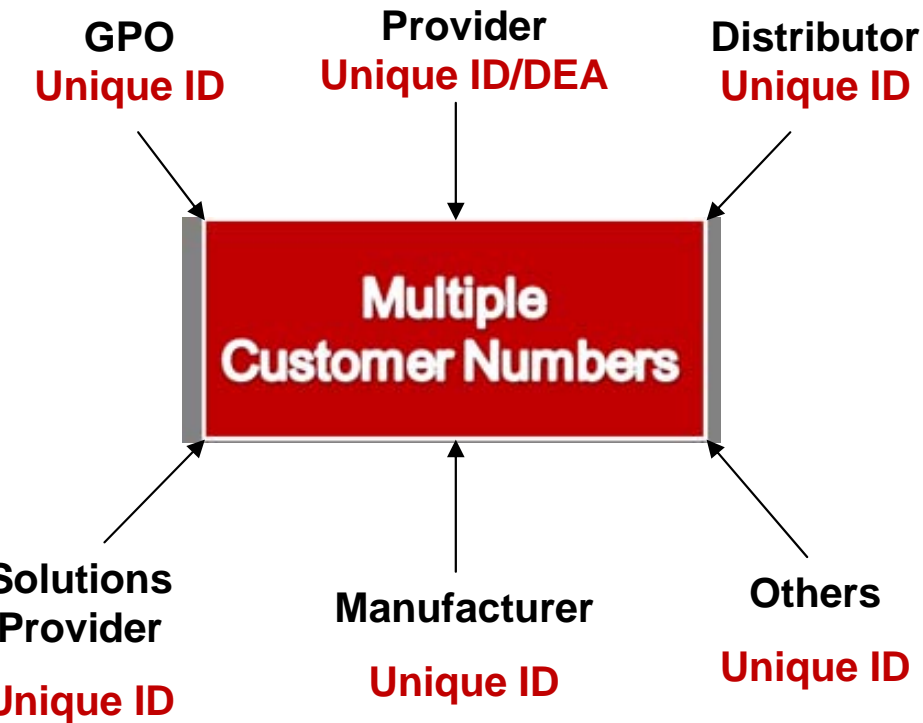
"The Foundational Steps"



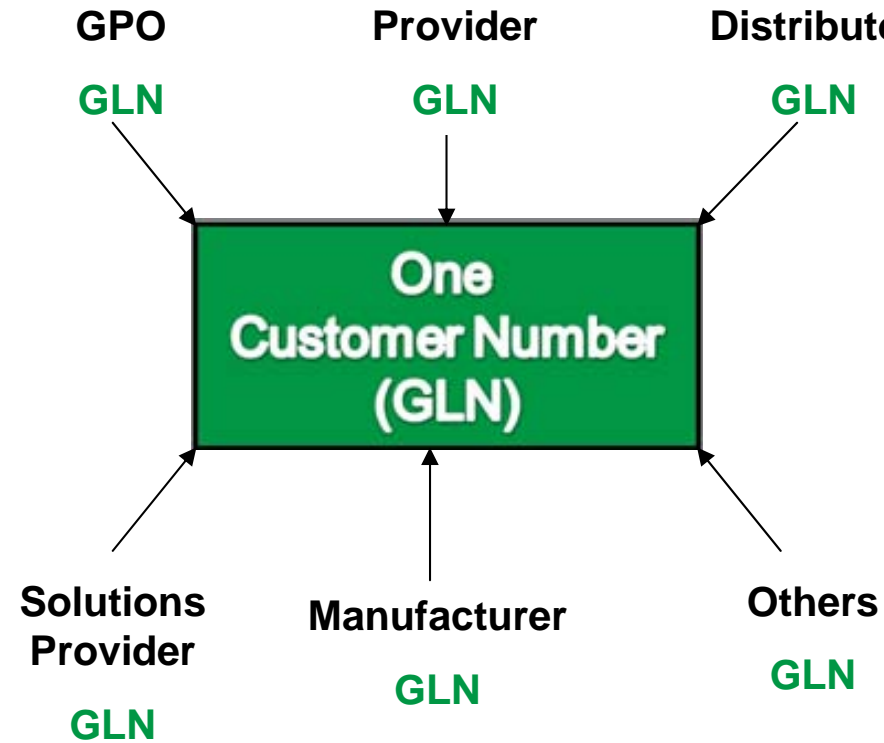


Elimination of Custom Account Numbers in External Transactions

Current State of Transacting Business



Transacting Business 2010 and Beyond



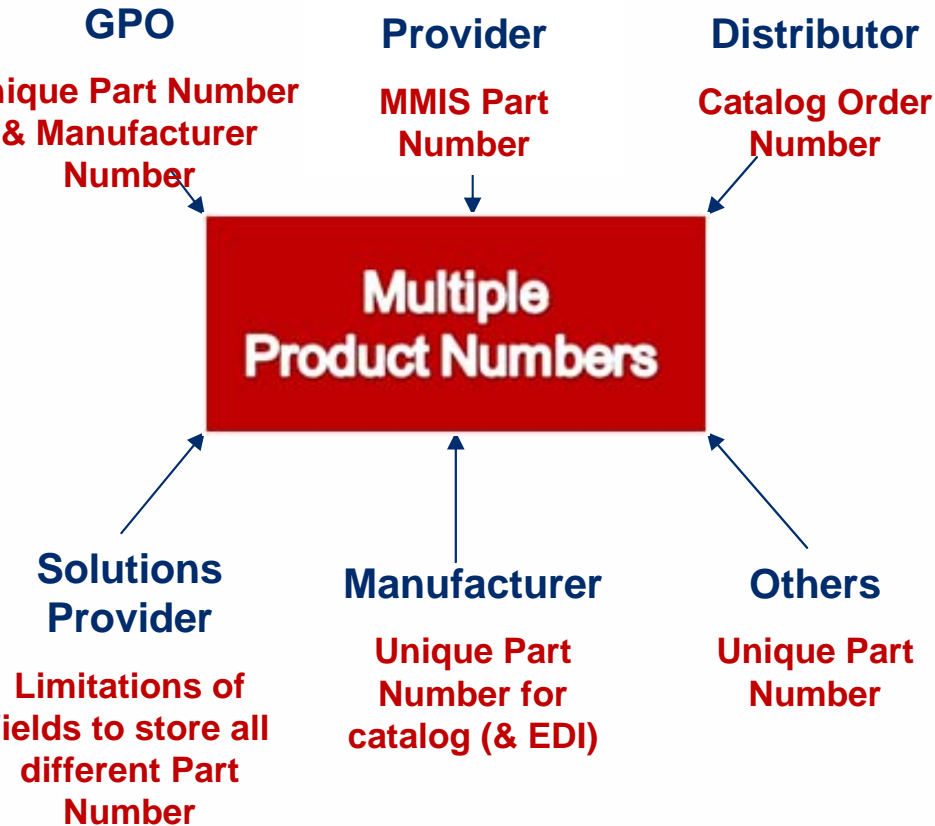
2010 GLN Sunrise

“The Elimination of Custom Account Numbers by 2010”

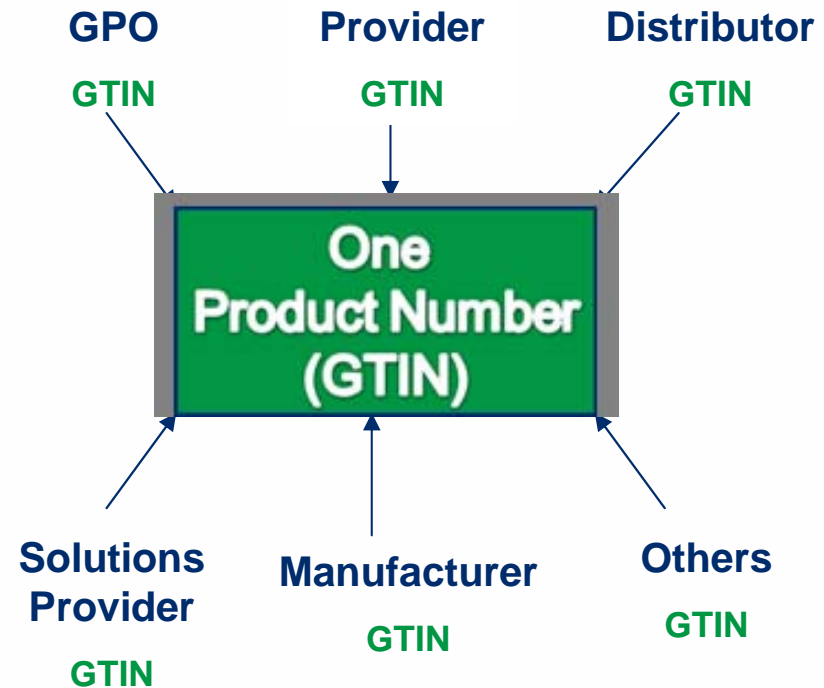
- GLNs assigned by all trading partners
- GLN hierarchy defined and maintained by all trading partners
- GLNs used in all business transactions
- GLN Registry used by all trading partners
- GLNs used to identify GPO membership, eligibility, and administration fees

Elimination of Custom Product ID Numbers in External Transactions

Current State of Transacting Business



Transacting Business 2012 and Beyond



2012 GTIN Sunrise

“The Elimination of Custom Product Numbers by 2012”

- GTINs assigned to all products
- GTINs used in all business transactions
- GTINs used in product returns and recalls
- GTINs marked on appropriate packaging levels
- GTINs scanned at point-of-receipt
- GTINs registered in a GS1 GDSN-certified data pool

Next Steps

- Continue to build GS1 Healthcare US membership
- Continue supporting the GS1 global efforts
- Grow the GLN Registry for Healthcare®
- Get Healthcare trading partners into GDSN production
- Get IDNs to publicly endorse the adoption of GS1 standards
- Continue working with regulators (UDI, traceability, etc).
- Develop score cards

GS1 Healthcare US Advocates:

