Worldwide progress
GS1 Member Organisations
A few examples …
GS1 Healthcare Canada

Alicia Duval, GS1 Canada
10,000 members and growing
  • 80% are Small Medium Size Organizations
    – Over 440 Healthcare Providers
    – Over 250 Pharmaceutical, Medical Device and Healthcare Service Suppliers
    – 15 Major Retail Pharmacy Chains and Distributors

150 employees working in three offices: Calgary, Toronto and Montreal

Public Healthcare System: Funded nationally, provincially administered

National E-Health Record Initiative: “Canada Health Infoway”
Associations Align to Advance Patient Safety and Healthcare Supply Chain Efficiencies

**Toronto, ON, May 26, 2008** – Members of CareNET Services Inc. (CareNET) voted on Friday in favour of aligning with GS1 Canada. Together, the organizations will dedicate collective focus on making Canada’s healthcare system safer and more efficient through the development and implementation of global supply chain standards.

CareNET represents 53% of Canadian hospitals, leading suppliers, GPOs and Solution Providers
### CareNET Providers

<table>
<thead>
<tr>
<th>Province</th>
<th>Hosp</th>
<th>% of beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>British Columbia</td>
<td>92</td>
<td>100%</td>
</tr>
<tr>
<td>Alberta</td>
<td>81</td>
<td>65%</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Manitoba</td>
<td>36</td>
<td>85%</td>
</tr>
<tr>
<td>Ontario</td>
<td>133</td>
<td>69%</td>
</tr>
<tr>
<td>Québec</td>
<td>9</td>
<td>9%</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>31</td>
<td>100%</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>35</td>
<td>61%</td>
</tr>
<tr>
<td>Nfld &amp; Lab.</td>
<td>24</td>
<td>86%</td>
</tr>
<tr>
<td>Prince Edward Isl.</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Territories</td>
<td>1</td>
<td>83%</td>
</tr>
</tbody>
</table>

Total: 442 53%
CareNET Suppliers

3M
A.V.O. Systems
Abbott Laboratories
Abbott Vascular
Acart Equipment Limited
Alcon Canada
Allergan
AmerisourceBergen Cdn
AMO
AMT Electrosurgery
Ansell
Attends Healthcare Prod.
B. Braun Medical
Bard Canada
Bausch & Lomb Surgical
Baxter Corporation
Bayer Inc
B.C. Ministry of Labour & Citizens’ Services
Becton Dickinson
Boston Scientific
Bowers Medical
Braemed Ltd.
CAN-med Healthcare
Bristol-Meyers Squibb Canada

BSN Medical
Canadian Hospital Specialties
Cardinal Health - Alaris Products
Cardiomed Supplies
Carestream Medical Ltd.
ConMed Canada
Cook Canada
Corporate Express Canada, Inc.
Dade Behring Canada Inc.
Diamed Lab Supplies
Dicks & Company Ltd.
Dufort & Lavigne
Edwards Lifesciences (Canada) Inc.
Electro Medical Equip.
Enterprise Paper
Esbe Laboratory
Filtration Plus
Fisher Scientific
Fresenius Medical
Futuremed
GE Healthcare
Grand & Toy
Guidant Corporation
Advanced Cardiovascular Systems
Cardiac Pacemakers Inc
Henry Schein Arcona
Hollister
Hospira
Identicam Systems Inc.
Imperial Distributors Canada
Johnson & Johnson
JohnsonDiversey
Keir Surgical
Lifescan
Lyreco Office Products
Maquet-Dynamed
Maritime Laundry & Textile
McArthur Medical Sales
McKesson
Medical Mart
Medline
Medtronic of Canada Ltd
MIP Inc.
Moore Canada
National Systems Co.
Nedco Atlantic
Neptune Food Service
Nestle Clinical Nutrition
Northland Health

Schaan Healthcare
SCI Interiors
Siemens Medical Solutions
Smith & Nephew Wound
Smith & Nephew Endoscopy
Source Medical
Southmedic
St. Jude Medical Canada, Inc.
STERIS Canada Inc.
Stevens Co.
Stryker Canada
Surgipath
Swish Maintenance
Synthes Ltd.
Sysco Food Services of Canada
Trudell Medical Marketing Ltd.
Tyco Healthcare
Unisource Canada
Vereburn Supplies Ltd.
Vitalaire (Air Liquide)
VWR International
Wood Wyant
Wyeth
Zimmer
Canadian Healthcare Supply Chain Standards Project

Government and Industry Funded and Endorsed

Advancing EDI in Healthcare
- Environmental Scan
- Standardization of Six EDI Transaction Sets

Healthcare Industry Outreach and Communications Program
- Meetings, Events, Orientation
- Three online modules – EPC/RFID in Healthcare, Integrating Global Standards in Healthcare, and Implementing EDI
- Communications and Media Relations Program

Global Supply Chain Standards in Healthcare
- Engage Sector Participants through a Steering Councils and Technical Working Groups
- Develop a sector vision and high level implementation roadmap
- Establish and Enable Medical/Surgical ID Standards
- Define and Load Standardized Product Attributes for the Medical Surgical Category in national data pool - ECCnet Registry
- Launch a Global Location Number (GLN) Registry for healthcare
- Issue Medical Surgical Product Normalization Guidelines

© 2008 GS1
ECCnet Registry: Canada’s national product registry

Canadian **Grocery** Product Registry
Canadian **Pharmaceutical** Product Registry
Canadian **Vaccine** Product Registry
Canadian **Foodservice** Product Registry

**Next** – Medical Devices

- Over **370,000** unduplicated products loaded
  - Identified by the Global Trade Item Number (GTIN)
- Over **13,000** prescription drug (Rx) products
- Over **10,000** over-the-counter (OTC) products
- Over **450** behind-the-counter (BTC) products
- Over **55,000** foodservice products
- Over **2,500** suppliers participating
GS1 Canada is launching a **standards-based recall and withdrawal system** for supporting the complex challenges associated with effective product recalls.

System integrates GS1 Keys:
- **GTIN** – Global Trade Item Number
  - Identifies the product
- **GLN** – Global Location Number
  - Identifies the location from which the recall has been sent
- **GSRN** – Global Service Relation Number
  - Identifies the individual that issued the recall
- **GDTI** – Global Document Type Identifier
  - Identifies the recall notice (each one has a unique number)
E-Procurement of Narcotics
GS1 Canada Certificate of Authority Service

- Goal: Enable the electronic procurement and traceability of controlled substances in accordance with Health Canada Regulations

- GS1 Canada Certificate of Authority Service manages Public Key Infrastructure (PKI) digital certificates

- Integrates GS1 Keys – GDTI (certificate), GLN (location), GRSN (pharmacist)

- Strategic Alliance with Canadian Pharmaceutical Distribution Network (CPDN):
  - Represents $900 M or 45% annual Canadian spend for Pharmaceuticals
  - 22 global pharmaceutical manufacturers
  - Servicing 600 Canadian hospital ordering points
  - Piloting in November 2008
  - Launching in June 2009
GS1 Healthcare Germany

Bettina Bartz, GS1 Germany
overview: highlights and progresses

- GS1 Healthcare Germany
- Expert group product master data interchange
- GS1 Germany Healthcare Conference in Berlin
- trade fair Medica in Germany
<table>
<thead>
<tr>
<th>Established</th>
<th>12. June 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Priorities</strong></td>
<td></td>
</tr>
<tr>
<td>• Allocate the needs and requirements of the german healthcare market</td>
<td></td>
</tr>
<tr>
<td>• Give information transfer from the German group to GS1 Healthcare and back</td>
<td></td>
</tr>
<tr>
<td>• Translate results of the GS1 Healthcare and disseminate into the German market</td>
<td></td>
</tr>
<tr>
<td>• Spread the results in best practice examples and application recommendation</td>
<td></td>
</tr>
<tr>
<td>• Starting pilot projects and enhance the implementation</td>
<td></td>
</tr>
<tr>
<td><strong>Work Teams</strong></td>
<td></td>
</tr>
<tr>
<td>• Expert team: product master database in healthcare</td>
<td></td>
</tr>
<tr>
<td><strong>Strategic Partnerships and Collaboration</strong></td>
<td>Associations from wholesalers and manufacturers</td>
</tr>
<tr>
<td>• VFA – Verband forschender Arzneimittelhersteller e. V.</td>
<td></td>
</tr>
<tr>
<td>• BPI – Bundesverband der pharmazeutischen Industrie</td>
<td></td>
</tr>
<tr>
<td>• PHAGRO Bundesverband des pharmazeutischen Großhandels e.V.</td>
<td></td>
</tr>
<tr>
<td>• BVMed – Bundesverband Medizintechnologie e.V.</td>
<td></td>
</tr>
</tbody>
</table>
Expert group product master data interchange

• **participants:**
  - hospitals (AGKAMED, Comparatio, Marienhospital Herne, UK Hamburg-Eppendorf, UK Münster, UK Dresden)
  - manufacturer (Abbott, B. Braun, Becton Dickinson, Coloplast, P.J. Dahlhausen, Fresenius Kabi, Johnson & Johnson)

• **approach:**
  - define relevant matters and premises for product master data interchange, recommendation and test during a pilot project

• **intention:**
  - GS1 XML message for healthcare product master data, compliant with GDSN
• 130 participants (pharmaceutical & medical devices manufactures, hospitals, ministry of health, wholesalers, politicians and associations)

• 25 best practice presentations, requirements of the German healthcare market and numerous examples of advantages in usage of GS1 Standards in the whole value chain

• result: particularly hospitals postulate a faster implementation of barcoding
Medica 19. – 22. November 2008 Düsseldorf, Germany

GS1 Germany exhibit together with GS1 Global Office in hall 15, booth A26
Introduction

Participatory Welfare
- Assuring the people’s health
- Positive policy for anti-poverty
- Active counter plan for the “aging society”

National Health Insurance
- Conducting medical fees review
- Evaluating the appropriateness of medical benefits
- Managing database of pharmaceutical products

Global Standards
- Enhance member’s global Competitiveness
- Build advanced SCM infrastructure
- Support efficient policy implementation
Use of barcode for pharmaceutical products became law in July 2000

**Scope**
- All pharmaceutical products distributed in Korea
- Except herbal medicine and injection, ointment, and syrup of 15ml(g) or less

**Barcodes**
- EAN-13, ITF-14, UCC/EAN-128

**Issues**

- **Barcode Error and lose control**
  - No printing of barcode on products or bad quality of barcode printing
  - Mismatch between the real items and the database

- **Low percentage of barcode usage**
  - Printing barcode without using it in real life

- **Impossible to use UCC/EAN-128**
  - No rules regulating the use of the Application Identifier
  - Each wholesaler makes and uses their own barcode to represent attribute information
2008 Jan. revised the law, introducing **Korea Drug Code**, which is a unique code for identification of individual pharmaceutical products in accordance with GS1

### Anticipated Benefits

- Basis of a healthcare information standard
- Share the latest information
- Enhance the usage of barcode
- Improve supply chain efficiency
- Enable ethical drugs to be traced

### Major Changes

- **All drugs must have a GS1 barcode**
  - including small items of 15ml(g) or less
- **All ethical and other specified drugs must have a GS1 Data Matrix or GS1-128**
  - AI is officially regulated. Expiration date and lot number should be represented
### Implementation Timeline

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All drugs must have a GS1 barcode (except small items)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grace Period</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All drugs, including small items (less than 15ml(g)), must have a GS1 barcode</td>
<td></td>
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<td></td>
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<tr>
<td>All specified drugs must have a GS1 Data Matrix or GS1-128 (expiry date and lot number are needed)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All ethical drugs must have a GS1 Data Matrix or GS1-128 (expiry date and lot number are needed)</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Korea Drug Code (KDC) consists of 13 digits including: country code, company code, product code, and a check digit

<table>
<thead>
<tr>
<th>No. of Digit</th>
<th>N1</th>
<th>N2</th>
<th>N3</th>
<th>N4</th>
<th>N5</th>
<th>N6</th>
<th>N7</th>
<th>N8</th>
<th>N9</th>
<th>N10</th>
<th>N11</th>
<th>N12</th>
<th>N13</th>
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<td>Package unit</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Example</td>
<td>880</td>
<td></td>
<td>6400-6999</td>
<td></td>
<td>0000-9999</td>
<td>1-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

© 2008 GS1
## Types and Composition of pharmaceutical barcodes

<table>
<thead>
<tr>
<th>Code Structure</th>
<th>GTIN-13</th>
<th>GTIN-14</th>
<th>GS1-128</th>
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<tbody>
<tr>
<td>Symbology</td>
<td>EAN/UPC Data Matrix</td>
<td>ITF-14 Data Matrix</td>
<td>GS1-128 Data Matrix</td>
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<tr>
<td>No. of digit</td>
<td>13 digit numeric</td>
<td>14 digit numeric</td>
<td>GS1-128 : Not more than 48 digit alphanumeric Data Matrix : Not more than 2,335 digit alphanumeric</td>
</tr>
</tbody>
</table>

© 2008 GS1
Example of representing KDC using GTIN-13

- **Code Structure**

<table>
<thead>
<tr>
<th>No. of digit</th>
<th>N1</th>
<th>N2</th>
<th>N3</th>
<th>N4</th>
<th>N5</th>
<th>N6</th>
<th>N7</th>
<th>N8</th>
<th>N9</th>
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<th>N11</th>
<th>N12</th>
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<tbody>
<tr>
<td><strong>Contents</strong></td>
<td>Country code</td>
<td>Company code</td>
<td>Product code</td>
<td>C/D</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td><strong>Example</strong></td>
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<td>6411</td>
<td>12345</td>
<td>9</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Symbol**

EAN-13 encoded with KDC

Data Matrix encoded with KDC
Example of representing KDC using GTIN-14

### Code Structure

<table>
<thead>
<tr>
<th>No. of digit</th>
<th>N1</th>
<th>N2</th>
<th>N3</th>
<th>N4</th>
<th>N5</th>
<th>N6</th>
<th>N7</th>
<th>N8</th>
<th>N9</th>
<th>N10</th>
<th>N11</th>
<th>N12</th>
<th>N13</th>
<th>N14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents</td>
<td>Indicator</td>
<td>Country code</td>
<td>Company code</td>
<td>Product code</td>
<td>C/D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Example</td>
<td>1</td>
<td>880</td>
<td>6411</td>
<td></td>
<td>12345</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
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</tr>
</tbody>
</table>

### Symbol

![ITF-14 encoded with KDC](image)
Example of representing KDC with expiration date and lot number using GS1-128

<table>
<thead>
<tr>
<th>No. of digit</th>
<th>2</th>
<th>14</th>
<th>2</th>
<th>6</th>
<th>2</th>
<th>Max. 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents</td>
<td>AI</td>
<td>GTIN</td>
<td>AI</td>
<td>YYMMDD</td>
<td>AI</td>
<td>Manufacturing line</td>
</tr>
<tr>
<td>Example</td>
<td>(01)</td>
<td>08806411123459</td>
<td>(17)</td>
<td>101231</td>
<td>(10)</td>
<td>Q12345</td>
</tr>
</tbody>
</table>

Symbol

GS1-128 encoded with KDC, expiry date and lot number
Data Matrix encoded w/ same information
Manufacturer’s pharmaceutical barcode options

GTIN-13
(All drugs)

GTIN-14
(Logistics Unit)

GTIN + Expiry Date + Lot Number
(Ethical and specified drugs)
Next Steps

Publish a user manual to provide manufacturers with specific examples, which barcode cannot be used due to item’s conditions.

Council formation

- Supervision
  - MHWA

- Management
  - HIRA

Support & Inspection

- KFDA
- GS1 Korea

Support

- KPMA
- KPTA
- Manufacturer & Importer

Council role

- Perform a function as a consulting body
- Collect certain use cases when a barcode cannot be placed
- Establish general specifications for barcodes
- Publish a user manual
MHWA, HIRA, and GS1 Korea continue to educate industry

Pharmaceutical Barcode Education (June 27, 2008)
Next Steps

A verification service for 2D barcodes will be required in order to use GS1 Data Matrix.

Scope of current service
- EAN/UPC, ITF-14, GS1-128

Future service
- All GS1 symbologies, including Data Matrix, DataBar, etc.

Benchmark
- GS1 France, GS1 Germany, GS1 Italy and more
Next Steps

Collaboration

MHWA

HIRA

Build global standards in the healthcare sector in collaboration with regulatory bodies and other similar stakeholders

➢ Next Target: Medical Devices
Special Thanks To…

GS1 Australia
User Manual

GS1 Japan
Medical Devices Operation Manual

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   1.4 GS1 Healthcare Standards and Certification Services
   1.5 GS1 Healthcare Standards and Certification Benefits

2 GS1 Standards
   2.1 GS1 Standards Overview
   2.2 GS1 Standards Implementation
   2.3 GS1 Standards Certification
   2.4 GS1 Standards and Certification Services
   2.5 GS1 Standards and Certification Benefits

3 GS1 Healthcare Services
   3.1 GS1 Healthcare Services Overview
   3.2 GS1 Healthcare Services Implementation
   3.3 GS1 Healthcare Services Certification
   3.4 GS1 Healthcare Services and Certification Services
   3.5 GS1 Healthcare Services and Certification Benefits

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GS1 Healthcare
Serbia & Macedonia

Branislava Mitic, GS1 Serbia
GS1 Healthcare Serbia & Macedonia was established in October 2006.

It gathers representatives of participants in healthcare chain including Serbian Ministry of Health, Medicines and Medical devices Agency, Republic Fund of Health Insurance, etc.
Medicinal products
Since 1993 in Serbia and 1998 in Macedonia regulations for medicinal products oblige all pharmaceutical products to be identified by:
GTIN, Expiry date, Batch number, …

Medical devices must be labeled with their:
GTIN, Batch number, Expiry date (indicated on both individual and batch packaging), …
Records on the type and quantity of imported, exported or sold medicinal products (per package type) in Serbia shall contain … GTIN, …

Demand for and Marketing authorization for a medicinal product itself have to include… GTIN …

ISO&IEC standard 16022 for DataMatrix is translated into Serbian and will be adopted by Serbian Institute for Standardization as a national standard till the end of this year.
Medicines and Medical Devices Agency of Serbia published The National Register of Medicinal Products (2008) in which medicines are identified with GTINs.
Large pharmacy institution, Apoteka Beograd, together with Serbian Fund for Health Insurance and one healthcare center develop the project of coding the data of medical prescription in DataMatrix format using AIs.

It also use electronic messages for invoice and despatch advice. GLNs are used for identification of business partners.
(1) 300339954269
(2) 30
(3) Milutin
(4) Marinkovic
(5) PEKA PAVLOVICA 84
(6) 1311961714027
(7) 1311961714027
(8) 10044937240
(9) 2480000013
(10) 539
(11) 1814
(12) 0
(13) 0
(14) 0
(15) 1402735
(16) 110
(17) 07028547
(18) 20080529
(19) 30006643
(use in one hospital)

1. Patients - GLN
2. Services - GTIN
3. Medicines - GTIN

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... to gather the pharmaceutical manufacturer, wholesaler, pharmacy chain and University hospital and start the pilot project of implementing traceability system in healthcare (in several phases).

- Marking of GTIN, batch number and expiry date in Data Matrix format
- Use of e-messages ORDERS, DESADV, INVOIC
- Help in moving from existing product catalogue to electronic data pool tied to Health Insurance Agency system.
GS1 Healthcare UK

Roger Lamb, GS1 UK
Department of Health and “Coding For Success”

160 NHS CFH hospitals registered

210 delegates attended

GS1 Healthcare UK Conference
September 2008

PaSA NHS Hospital Procurement
Workshops November 2008

NPSA Patient Identification event
Introduction

The pharmacy production unit of Southlands Hospital, part of Worthing and Southlands Hospitals NHS Trust, has implemented GS1 standards for its new bar coding system to uniquely identify medicines. The process of bar coding repackaged and labelled medicines at Southlands Hospital was driven by growing demand from its customers who had implemented robotic dispensing units at their facilities. The pharmacy production unit’s customers include NHS hospitals, private hospitals and community pharmacies.

Southlands Hospital, located in Shoreham-by-Sea in West Sussex, repackages and labels common prescription drugs for its customers. With this service, pharmacies and dispensaries are able to dispense the drugs to patients more quickly and free up staff for patient care. Pre-packed drugs also enable out-of-hours doctors, who have no access to pharmacies, to prescribe and dispense direct to the patient immediately after treatment or diagnosis; ensuring patients are able to start treatment without delay.

With 700 product lines serving 50 customers, Southlands Hospital managed to implement their standardised bar coding system within 3 months.
“GS1 UK are acquiring a reputation for successful implementation into the NHS, more recently in Blood tracking and pharmaceuticals”. - Mary Green, National Innovation Centre, Gateway Manager

“I congratulate GS1 UK on the programme to introduce GS1 standards for NHS manufactured and preparative unlicensed medicines” - Carol Cochrane, Chair, National Advisory Board

“Thank you for your hard work in making the Pharmacy study days so successful - the feedback that I have had is all positive and I believe that we will have made a significant impact in moving the agenda forward.” - Dr. Vic Standing SHA Senior Pharmaceutical advisor

“There has been significant progress concerning the tracking of individual surgical instruments and endoscopes using the GS1 standards which are critical for compliance with the NICE guidelines” - Prof. Nigel Tomlinson, DH Chief Scientific Officer
GS1 Healthcare US

Dennis Harrison, GS1 US
# GS1 Healthcare US – Workgroups

<table>
<thead>
<tr>
<th>Workgroup</th>
<th>Workgroup Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Product Identification (GTIN)®</td>
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<td>2. Location Identification (GLN)</td>
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<td>3. GDSN® Implementation</td>
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<td>4. Traceability Adoption</td>
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<td>5. Application &amp; Implementation</td>
<td>17</td>
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</table>
Industry Associations (13)
• 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
• 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

Distributors (4)
• AmerisourceBergen Drug Corporation
• Cardinal Health
• McKesson
• Owens & Minor

Hospitals (19)
• Ascension Health
• Atlantic Health
• BJC Healthcare
• Carolinas Healthcare System
• Duke University
• Geisinger Health System
• Intermountain Healthcare
• Johns Hopkins Health Systems
• 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 (2)
- DoD/DMLSS - Defense Medical Logistics Standard Support
- Dept. of Veteran Affairs

Group Purchasing Organizations (4)
- Amerinet
- MedAssets
- Novation LLC
- Premier, Inc.

Manufacturers (11)
- Abbott Laboratories, Inc.
- Becton Dickinson
- Boehringer Ingelheim USA
- Bristol-Myers Squibb Company
- Covidien
- Genzyme Corporation
- Johnson & Johnson
- Medline
- Merck & Company, Inc.
- Pfizer, Inc.
- Talecris Biotherapeutics, Inc.

Solution Providers (18)
- Accenture
- Acsis, Inc.
- Authentix Incorporated
- AXWAY
- Clarkston Consulting
- DataPros for Healthcare
- Deloitte Consulting
- GHX
- Inmar (DBA: MedTurn)
- Lawson Software
- Loftware, Inc
- Ontuett
- Product Identification & Processing
- rfxcel Corporation
- Supplyscape Corporation
- Systech International
- Terso Solutions, Inc
- VCG & Associates

Retailers (1)
- Walgreens Co.
Accomplishments

Developed and launched the «U.S. Healthcare Provider Tool Kit»

Published Purdue Pharma GS1 Healthcare US - Success story

Developed "The Foundational Steps" adoption model
Healthcare Provider Tool Kit

How-To Guides to Help Improve Patient Safety and Supply Chain Efficiency with GS1 Standards

The GS1 System of global supply chain standards has delivered proven results in many industries for over 35 years. Now healthcare providers are adopting GS1 standards to achieve the same results. The Healthcare Provider Tool Kit will show you what you need to know to get started today.

Start Here! Read Me First

Global Location Number (GLN)
Standardized Location Identification

Global Trade Item Number® (GTIN®)
Standardized Product Identification

Global Data Synchronization Network® (GDSN®)
Standardized Product Definition

United Nations Standard Products and Services Code® (UNSPSC®)
Products and Services Classification

Additional Educational Offerings

Based on existing GS1 Standards
Accomplishments

Developed and launched the «U.S. Healthcare Provider Tool Kit»

Published Purdue Pharma GS1 Healthcare US - Success story

Developed "The Foundational Steps" adoption model
GS1 Standards: U.S. Healthcare Adoption Model
“The Foundational Steps”
GS1 Standards: U.S. Healthcare Adoption Model
“The Foundational Steps”
“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
“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 scanned at point-of-care
- GTINs registered in a GS1 GDSN-certified data pool
# 2010 GLN Sunrise

“The elimination of Custom Account numbers by 2010”

## Provider/Supplier Implementation Path

<table>
<thead>
<tr>
<th>PHASES</th>
<th>DESCRIPTION</th>
<th>SUPPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase One</td>
<td>An organization’s supply chain leaders and staff understand GLNs, their benefits, and GS1 standards in general.</td>
<td>• GS1 HC US</td>
</tr>
<tr>
<td>Awareness</td>
<td></td>
<td>• Tool Kits</td>
</tr>
<tr>
<td>April 2009</td>
<td></td>
<td>• GPO Education</td>
</tr>
<tr>
<td>Phase Two</td>
<td>An organization accesses the GLN Registry, establishes users and approvers, and reviews their GLN hierarchy.</td>
<td>• Business Cases</td>
</tr>
<tr>
<td>Self Assessment</td>
<td></td>
<td>• Webinars</td>
</tr>
<tr>
<td>December 2009</td>
<td></td>
<td>• Associations</td>
</tr>
<tr>
<td>Phase Three</td>
<td>An organization commits to utilize GLNs and creates a plan to facilitate implementation. Required resources are identified and deployed.</td>
<td>• GS1 HC US</td>
</tr>
<tr>
<td>Commitment</td>
<td></td>
<td>• Tool Kits</td>
</tr>
<tr>
<td>March 2010</td>
<td></td>
<td>• GPOs</td>
</tr>
<tr>
<td>Phase Four</td>
<td>An organization utilizes the GLN Registry for roster maintenance.</td>
<td>• Business Cases</td>
</tr>
<tr>
<td>Implementation</td>
<td></td>
<td>• Prime Distributors</td>
</tr>
<tr>
<td>June 2010</td>
<td></td>
<td>• Manufacturers</td>
</tr>
<tr>
<td>Phase Five</td>
<td>An organization uses GLNs in purchase orders to identify themselves and their trading partners. The use of custom account numbers is eliminated.</td>
<td>• Software Providers</td>
</tr>
<tr>
<td>Transactions</td>
<td></td>
<td>• GS1 HC US</td>
</tr>
<tr>
<td>December 2010</td>
<td></td>
<td>• Tool Kits</td>
</tr>
<tr>
<td></td>
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<td>• GPOs</td>
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<td></td>
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<td>• Software Providers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• GS1 HC US</td>
</tr>
</tbody>
</table>
Next Steps

- Continue to build GS1 Healthcare US membership
- Continue working the workgroup plans
- Grow the GLN Registry for Healthcare®
- Create a Healthcare video
- Continue transitioning DoD GDSN pilot participants into production
- Develop a hospital implementation team (consulting)
- Begin communicating the "GS1 Standards: Healthcare Adoption Model" (Sunrise 2010 and 2012)
- Develop score cards
- Develop Supplier Tool Kits
- Continue to work with global Healthcare user group developing global standards