

#### Implementation Reality "How to fulfill the requirements in California"

24<sup>th</sup> GS1 Global Healthcare Conference San Francisco, 2 October 2013





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# A Manufacturer's Perspective

**Peggy Staver, Pfizer** 





## California Mfg Requirements

- Serialization
- e-Pedigree
- Interoperable Electronic System

## Challenges

## **Best Practices**

## **Open Discussion**





## **Serialization**

- Internal and External (CMO) Network
- Colliding Global Requirements
- Limited Resources
- Aggregation and the Use of Inference

## e-Pedigree

- Basic Architecture Decisions
- DPMS vs. EPCIS
- "Big Data" Issue
- Certification?
- Digital Signatures?



## Interoperable Electronic System

- Doesn't Exist Today
- Remaining Time to Implement
- Limited Pharmacy Engagement
- Varying legacy systems
- Different Solution Providers
- Limited Resources
- Scalability of Piloted Solutions?



#### **Understand Requirements**

- Engage with CA BoP
- Contribute to Regulation Development

## **Secure Senior Management Support**

## **Obtain Funding and Necessary Personnel**

## **Establish Cross Functional Team**

- Develop Your Strategy
- Communicate requirements to internal sites and external partners (CMO's)
- Build flexible solutions to meet global requirements
- Adopt standards-based, non-proprietary solutions

Test, Test and Test Again (End-to-End)!!!



# A Wholesaler's Perspective

**Ron Bone, McKesson** 





- We are 14 months from the first phase of implementation without clear guidance on the interoperable data exchange system.
- There are two incompatible electronic systems (DPMS and EPCIS) being implemented by manufacturers.
- Only a few manufacturers have been in a position to pilot with us.
- We don't have engagement from the provider community in pilots.



- At what point(s) in the warehouse process will unit level scanning be required.
- What will be an acceptable use of inference?
- What is the certification requirement?
- How will our downstream partners gather the pedigree information to be able to process a return – variability in capability?
- Will our downstream partners be allowed to use inference on the totes we ship?



- Shift your thinking about products by SKU/Lot to thinking about products as a unique individual unit.
- Select experienced traceability service provider (best if they can handle DPMS and EPCIS).
- Begin pilots as soon as possible:
  - Readability of 2D Barcode
  - Exchange data between trading partners Our experience is that this is critical
- Find out what works and what does not work before investing Capital.



- Develop open dialog with experienced trading partners.
- Develop SOP's:
  - How will serialized products be handled?
    - When will cases be opened in the warehouse?
    - Steps to be taken when a serial number is not in the database received.
    - Exception processing.
    - How will inference testing be conducted?
- Provide downstream partners clear expectations on submitting returns.



# A SDO's Perspective

**Bob Celeste, GS1 US** 





#### www.gs1us.org/RxGuideline

#### Contents of v1.0:

- Identifying Trade Units (Products, Cases, and Kits):
- Identifying Logistics Units (Cases, Pallets, and Totes)
- Identifying Parties & Locations Encoding GS1 Data Carriers
- Translating Captured Data
- Master Data Management (product and location)
- Applying GS1 Standards for Event Data
- Supply Chain Events to be Captured for Pedigree

#### Continuing work on v2.0

- Exceptions Processing
- · Pilot findings / best practices
- Forward Logistics Examples
- Reverse Logistics Examples
- Potential Architectural Models









The NDC is a 10-digit identifier comprising two segments: a Labeler Code assigned by the FDA and a Product/Package Code assigned by the manufacturer. The Labeler Code is a variable length identifier assigned by the FDA (and encoded into NDCs) to identify a company that manufactures a drug (including



•.		G\$1 Healthcare US – Improvin	Identify Products, Logistics Units and g Patient Safety & SupplyChain Efficiency	
<ul> <li>Extensions used in Commissioning Events:</li> <li>In addition to the EPCIS standard fields shown above, the following extensions are also included in a Commissioning event. (See Section <u>15</u> for general notes about extensions.)</li> </ul>				ode Quality for oducts and otics Units
Element	Usage	Туре	Value	Applying 05: Space Applying 05:
eventID	Optional	String	A universally unique identifier (UUID) as defined by IETF RFC 4122 that uniquely identifies this event, using the URN syntax also defined in RFC 4122.	
			Currently this event ID is added here for the purposes of pilots to test the use and value of an ID for identifying and referencing EPCIS events (void, replace, etc.).	Extending EPCIS (pg 57) Events to share Pedigree Data
			It is possible that this attribute will be adopted into the EPCIS standard and promoted to the standard set of attributes. At that time, this attribute will be removed from the extension as part of a future version of this guideline.	
additionalTradeltemIdentification	Conditional	AdditionalTradeIdentificationType (see below)	The product code associated with all of the EPCs in the <u>epclist</u> of the <u>ObjectEvent</u>	Basic ogistics
tradeltemMasterData	Conditional	Complex Type tradeltemWasterData (see below)	Used for trading partners who do not employ a master data management strategy	Down
lotNumber	Conditional (see notes below)	String	The lot or batch number for all of the EPCs in the <u>epclist</u> of the <u>ObjectEvent</u>	
itemExpirationDate	Conditional (see notes below)	Date	The expiration date for all of the EPCs in the epclipt of the ObjectEvent,	

#### 19.1.1. Ship a full case through the supply chain

The following examples depict a Manufacturer shipping a pallet of cases to a Wholesaler who then breaks the pallet down to its cases and ships a full case to the Dispenser warehouse.

In the Figure 19 scenario, each trading partner captures the correct EPCIS events; however, they only share the *Shipping* event with each other. (If necessary, each trading partner could collect the remaining events from their trading partners to assemble the full history of events for a particular trade item.)

## ORCE



GS1 THE GLOBAL LANGUAGE





#### RX SECURE SUPPLY CHAIN WHAT IS THE SIMPLEST WAY TO SHOW THE CHAIN OF OWNERSHIP OR CHAIN OF CUSTODY?







event Time, transferredByID, TransByDNS, transferredToID, TransToDNS event Time, transferredByID, TransByDNS, transferredToID, TransToDNS

event Time, transferredByID, TransByDNS, transferredToID, TransToDNS







# **Open Discussion**





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