

The Global Language of Business

Traceability: How to get started? Learnings form the APEC toolkit

African GS1 Healthcare Conference 2018 Breakout Panel II @ 14:30 – 15:45hrs - Tuesday 09 May 2018 Addis Ababa, Ethiopia



Your Panelists

















The Global Language of Business

Traceability - the basics

Ulrike Kreysa - Senior Vice-President Healthcare - GS1 Global Office



A key driver in the Healthcare sector for

- Patient Safety
- Preventing counterfeiting
- Enabling correct patient records
- Enabling effective product recalls
- Traceability down to the patient
- Enabling regulatory compliance
- Enhancing business processes (e.g. inventory management, optimized supply chain efficiency, eProcurement)





Driven by many regulations worldwide



- From Turkey to Argentina, South Korea, USA, Europe, Saudi-Arabia and many other MEMA countries
- Different data base models, but all with the basic data elements





APEC Roadmap for Global Medical Product Integrity and Supply Chain Security

- 5 year project (Jan. 2013 Dec. 2018)
- APEC sponsors:
 - APEC Life Sciences Innovation Forum
 - APEC Regulatory Harmonization Steering Committee
- Objective:
 - examine current practices and regulatory requirements
 - develop recommendations to regulators
 - develop training programs which will be made publically available through the APEC website
- Track & Trace Work Group (TTWG) with 10 work streams
- Published by APEC Harmonization Center at
 <u>http://www.nifds.go.kr/apec/SupplyChain/APEC_SupplyChainToolkit_170317.pdf</u>









TTWG - members







TTWG – Six recommendations



- All three overarching Recommendations apply irrespective of the geography, economy or regulatory issue being addressed :

 1st Recommendation: define clear objective to be achieved
 2nd Recommendation: collaborate with stakeholders
 3rd Recommendation: recommend the use global data standards (GDS)
- All three secondary-Recommendations apply over time as traceability systems are incrementally implemented:
 - Identify
 - Capture
 - Share





Define clear objectives to be achieved

The solution required by a regulation should be based on the regulatory objective to be achieved

What issue is being addressed?





The dilemma created by lack of clear objectives



- Strategic alignment of stakeholders may not occur differing interpretations and implementation
- Missed opportunity to leverage global learnings
- Unclear what the solution is addressing and if it will work too onerous / costly? not addressing the issue?
- Processes become complex
- Timelines may extend
- Costs can increase



Clear objectives will facilitate the achievement of regulatory needs and costs can be minimized



Defining clear objectives

- Provides stakeholders certainty so able to focus on task rather than being sidetracked by ambiguity
- Supports development of common approaches/standardisation to issue being addressed
- Leverages committed industry stakeholders who possess the skill, creativity, dedication and tenacity to create appropriate solutions to address the issue









Second Recommendation

Collaborate with stakeholders

- A collaboration of the drug supply chain partners and regulators should define the implementation approach (i.e. timing and phasing) and governance model, including data management and privacy.
- Collaboration should be ongoing due to the changing and/or evolving nature of the situation.







The benefits of collaborating with stakeholders

- Strategic alignment of stakeholders across geographic networks
- Multiple economies facing common challenges moving towards the same approach for a shared supply chain network
- Globally unique/globally interoperable solutions are implemented
- Reduce complexity, timelines and costs









Recommend the use of global data standards (GDS)

The use of global data standards would enable global interoperable product identification, capture and sharing of data. This may support efficient and cost effective management of the pharmaceutical supply chain globally. This may also facilitate harmonised implementation of regulatory requirements.





The dilemma created by lack of Global Data Standards

- Multiple economies facing common challenges create different approaches for identification and data exchange
- Disparate and proprietary solutions are implemented and expensive to maintain
- Internal applications that serve several geographic networks require complex logic
- External systems can not be shared across regional boundaries
- Processes become very complex
- Costs increase

Without Global Data Standards, health care costs rise and time to deliver product to the market increases







Global Data Standards



- GS1 standards enable traceability
- The result: Prevent counterfeit drugs entering the market, gain efficiency, have the right product in the right place at the right time, more effective recalls and more...







What is the Traceability Matrix?

A tool to assist you in selecting the appropriate system (process & model) for traceability to meet the objective(s) defined earlier in the decision making process (1st Recommendation)



Driver / Objective	Issue	TRACEABILITY (aka track and trace) PROCESS APPROACH				
		Chain of Ownership (Finished Goods)	Chain of Custody (Finished Goods)	Point of Dispense Verification	End consumer/ patient verification	Applicable IT System choreography models
Improve Patient Safety	Counterfeit or stolen product detected in the legitimate supply chain	~	~	~		Centralised, Semi- Centralised, Distributed
	Counterfeit or stolen product obtained/consumed by the patient	~	~	~	×	Centralised, Semi- Centralised, Distributed
	Inefficient reverse logistics processes (e.g. returns, recalls)	v	~			Centralised, Semi- Centralised, Distributed
	Lack of visibility of status of product (e.g. expired, recalled)	~	~	~	~	Centralised, Semi- Centralised, Distributed
Improve payment monitoring	Inefficient payment and payment monitoring processes	v		~		Centralised
	Reimbursement fraud	~	~	~		Centralised
Improve supply chain efficiency	Lack of knowledge of where the product is across the supply chain	~	~			Centralised, Semi- Centralised, Distributed
	Inefficient inventory management	~	~	×		Centralised, Semi- Centralised, Distributed
	Inefficient reverse logistics processes (e.g. returns, recalls)	~	~			Centralised, Semi- Centralised, Distributed
	Lack of harmonised trade/ customs clearance procedure	~	~			Centralised, Semi- Centralised, Distributed

Note: the objectives are not presented by order of importance or preference.

THIS TRACEABILITY MATRIX IS AN INTEGRAL PART OF THE APEC TRACK & TRACE WORK GROUP TOOL KIT IT SHOULD ONLY BE READ OR USED AS A PART OF THAT TOOL KIT IT SHOULD NOT BE READ OR USED SEPARATETLY OR INDEPENDENTLY OF THAT TOOL KIT







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- \checkmark
 - There is Internal and External Traceability
- Inputs (e.g. receipt) must be linked to outputs (e.g. shipments / dispensing) \checkmark

Fundamental to traceability: In parallel with the flow of product

there **has to be** a flow of information about the product

Stakeholders can have varying roles \checkmark

Traceability – definition

- Traceability is the ability to identify and trace the history, distribution, location, and use of products. A traceability system records and follows the trail as products come from suppliers and are processed and ultimately distributed/dispensed as final products.

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The traceability "building blocks"









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Traceability: How to get started

Francoise Hirth, Roche



Traceability: how to get started?

Françoise Hirth

F.Hoffmann-La Roche Itd

Serialization Coordinator EU & EEMEA





What does Roche want to achieve with serialization/traceability? (1/2)

Fight against counterfeits



Counterfeiting

- endangers the lives of patients;
- undermines confidence in healthcare systems and health professionals;
- damages public confidence in authentic pharmaceutical products
- is a threat to the reputation of the legitimate healthcare business







What does Roche want to achieve with serialization/traceability? (2/2)

> Keeping the supply chain safe for the patients



Back and forth route due to:

- → Obsolete stocks
- → Returns
- → Loses
- Incorrect deliveries
- → Payment issues, etc.





What does Roche want to achieve with serialization/traceability? (2/2)

 \rightarrow Increasing healthcare supply chain efficiency is highly necessary





Work **Together** with All Stakeholders to Codevelop the National Verification / Traceability



Success through a **collaborative approach** Manufacturers, Health Authorities, Associations, Peers, Trading Partners, Solution Vendors... eploy



What Roche's approach towards emerging regulation is in the area of Supply Chain Integrity



• We welcome Health Authoritie's efforts to secure drug supply to the benefit of our patients

 Roche & Industry is willing to work with Health Authorities to achieve longer term patient safety goals

It is important that regulators engage key stakeholders in the definition process (of the regulation)



Do or Will you have draft regulations ? For which problem ?







Implementation Workload can be More or Less **High, Requiring Sufficient Time**



an extension in case of deviation to defined standards





Doing now what patients need next





The Global Language of Business

Implementing Serialization and End-to-End Traceability using GS1 Standards

Dirk Van den Wouwer, Johnson & Johnson

Johnson Johnson SUPPLY CHAIN

Implementing Serialization and End-to-End Traceability using GS1 Standards A global company perspective

Dirk Van den Wouwer EMEA Serialization & Traceability Leader Johnson & Johnson Supply Chain

Regional GS1 Healthcare Conference, Addis Ababa, Ethiopia May 2018

Johnson & Johnson

- Global science & technology company focused solely on healthcare
- More than 275 operating companies in 60 Countries
- Selling products in more than 175 Countries
- Approximately 130,000 employees worldwide



צעמוד שי שרכירס, כל שאמ ששים תייב לחיות באיכות סעולה. עלימו לשאווף באוטן מחתיד להפחיד את העליות בתטרה לשמור על מתירים סבירים. בהזמנות הלקוח יש לטופי באוטן חדיוק וחתיר לספקים ולחפיצים שלח

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Nosso Credo

Johnson & Johnson Portfolio

Consumer

Baby Care • Body Care • Facial Skin Care • Sun Care • Feminine Personal Care • Allergy Care • Compromised Skin Care • Cough and Cold Care • Digestive Health • Oral Care • Pain Care



Medical Devices

Wound Closure & Surgical Devices • Minimally Invasive Surgery • Joint Replacement • Sterilization • Eye Health • Diabetes Care

Pharmaceuticals

Oncology • Infectious Diseases & Vaccines • Immunology • Cardiovascular & Metabolism • Neuroscience & Pain • Pulmonary Hypertension





7 Billion Reasons to Care



GS1 Global Standards Will Benefit Patients and Consumers Everywhere

Benefits of Serialization

- Enables patient safety
- Allows for continued product access
- Creates end-to-end transparency
- Reduces threat of counterfeiting, theft, diversion
- Allows better control of reimbursement
- Minimizes errors
- Improves logistics efficiency and order accuracy





Regulations Deployed Globally

Protect patient safety and product integrity



* Some regulations require anti-tampering solutions as part of the regulations

Over 45 Countries Have Legislated Serialization/Track & Trace

Number of countries increasing and time window for deployments reducing





Deploying for Regulations Requires Managing Through Complex Organizational Structures

Organizing in a global, end-to-end, cross-functional context



Key Deliverables in Getting Started

Getting started for the implementation



Obtain Capital Resources

Complete Package & Obtain Funding

Drive Appropriate Communications and Engagement

Streamlined audiences, messages and lots of communication!



Stakeholder Engagement

Set-up expert groups that pilot each phase

Trade Organizations Industry Organizations osnitals Wholesalers Pharmacies Health Care Authorities Distributors

Leverage Existing Standards & Expertise

Phased approach with realistic timings is recommended



Phase 1: Product Identification GTIN 01234567890128 DataMatrix including GTIN, Batch #, Expiry date FXP 12-2018 • Suggested Timing: ~6 to 12 months as of I OT 123456 MFG (Optional) publication Phase 2: Unique Identification of Secondary Pack PC 01234567890128 Include serial number in DataMatrix SN 123456789012 FXP 12-2018 • Suggested Timing: ~6 to 18 months as of LOT 123456 MFG (Optional) publication Phase 3: End-to-End Traceability / Verification Including reporting to Health Authorities Suggested Timing: ~24 to 36 months as of publication 348

Key Attention Points

Build on the toolkit & experience gained in other countries



Audience Q&A time...







...and THIS WEEK do not miss...



...the "Q&A with the Experts" panels related to Traceability:

Thursday – 10 May

• 14:00 to 15:00 hrs

Getting started with traceability – Geraldine Lissalde-Bonnet, Director Public Policy, GS1 GO/Dirk Van Den Wouwer, Johnson & Johnson

Choosing a traceability model – Ulrike Kreysa, SVP Healthcare, GS1 Global Office, Pascal Aulagnet, Pfizer

• 15:00 to 16:00 hrs

GS1 standards for sharing traceability information – Craig Alan Repec, Senior Manager, Supply Chain Visibility, EPCIS &RFID, GS1 GO, Dirk Van Den Wouwer, Johnson & Johnson

Traceability implementation in the hospital – Tania Snioch, Director

Healthcare, GS1 GO/Feargal McGroarty, St. James's Hospital, Ireland

