

Regulatory environment





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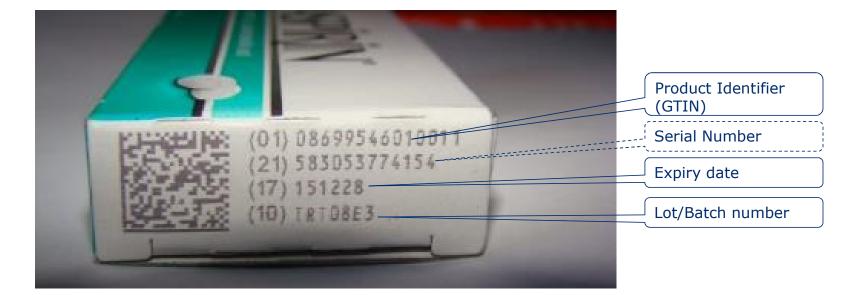
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The big trend: a serialised secondary pack...



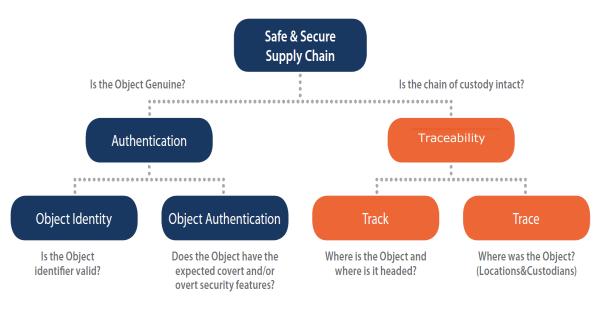


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Different approaches

- Can the product identification features be verified?
- Can the product be tracked to where it is or traced from where it has been?

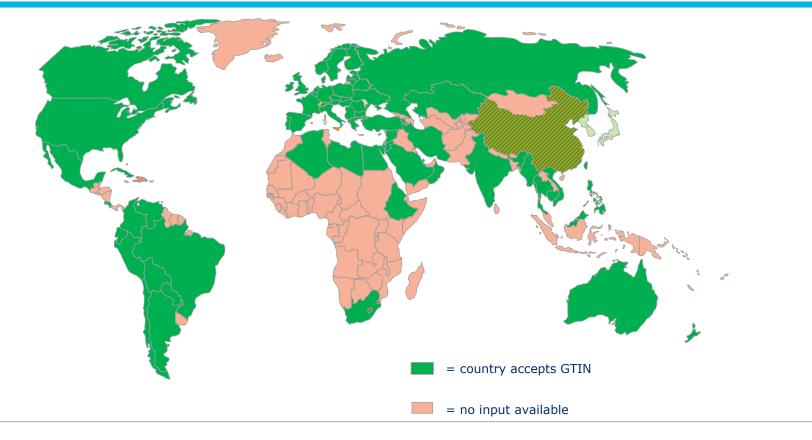




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Harmonisation around the identification of pharmaceuticals



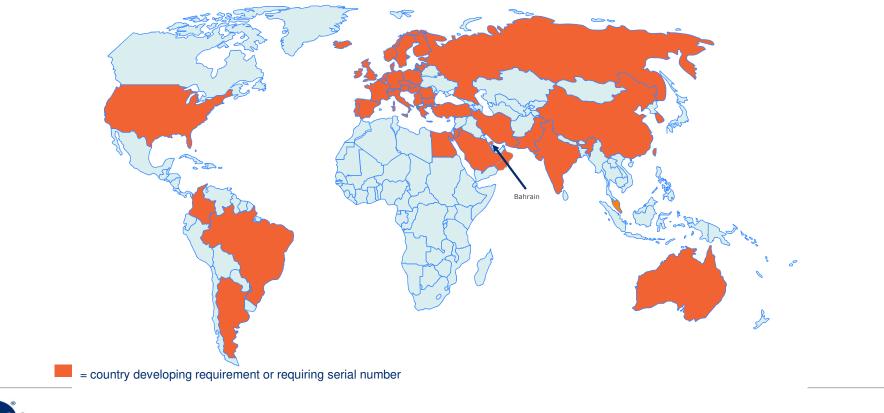




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Serialisation of pharmaceuticals



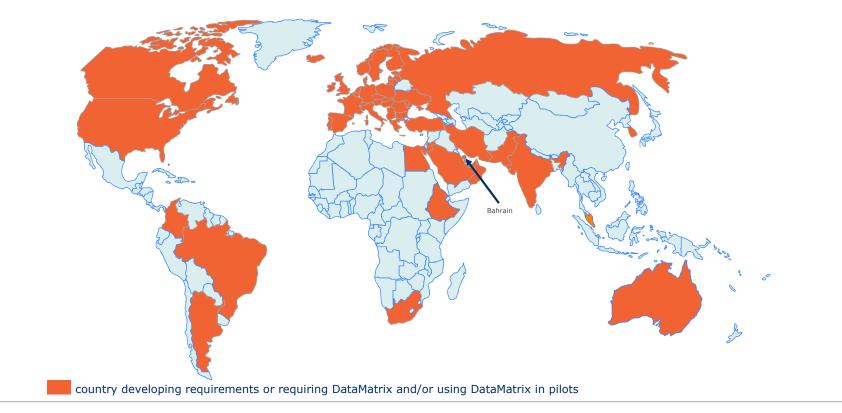




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GS1 DataMatrix on pharmaceuticals







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In the EU - the Falsified Medicine Directive

EU Falsified Medicine Directive 2011/62/EU (FMD) http://ec.europa.eu/health/sites/health/files/files/eudralex/vol-1/dir 2011 62/dir 2011 62 en.pdf

EU Commission Delegated Regulation 2016/161 https://ec.europa.eu/health/sites/health/files/files/eudralex/vol-1/reg 2016 161/reg 2016 161 en.pdf

Prevent the entry into the legal supply of falsified medicinal products by requiring the placing of safety features consisting of a unique identifier and an anti-tampering device on the packaging of certain medicinal products for human use for the purposes of allowing their identification and authentication.



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The Unique Identifier in the Delegated Regulation (EU) 2016/161





Illustrative example – not binding



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European Federation of Pharmaceutical Industries and Associations (EFPIA)



Recommendation for Coding of Pharmaceuticals in Europe

Data Matrix – Coding proposal derived from GS1 standards (EAN 128 syntax with Application Identifiers; DataMatrix ECC200)

Manufacturer Product Code (GTIN): 14 digits Unique Serial Number (randomized): up to 20 alpha-numeric characters Expiry Date: 6 digits (YYMMDD) Batch Number: up to 20 alpha-numeric characters + minimum requirements on quality of randomisation

Example:

GTIN: (01) 07046261398572 Batch: (10) TEST5632 Expiry: (17) 130331 S/N: (21) 19067811811	
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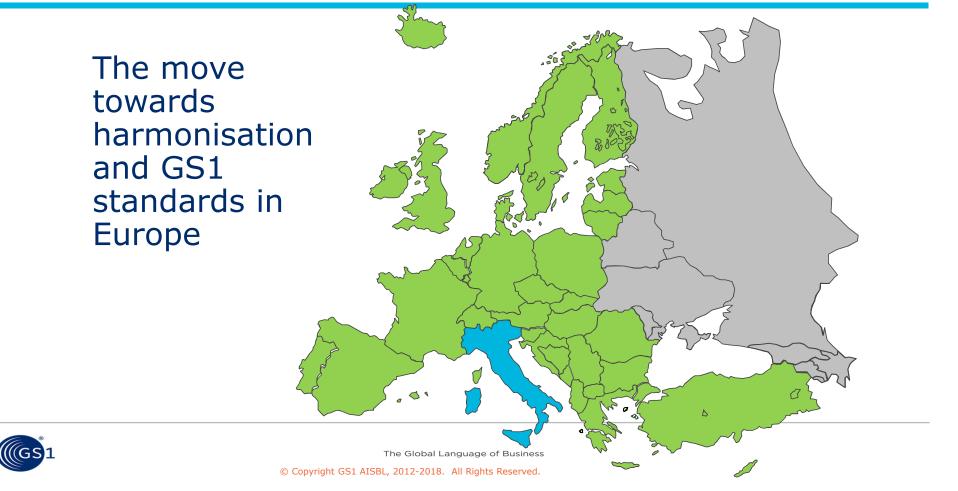
Specifications provided in EFPIA's: "European Pack Coding Guidelines"



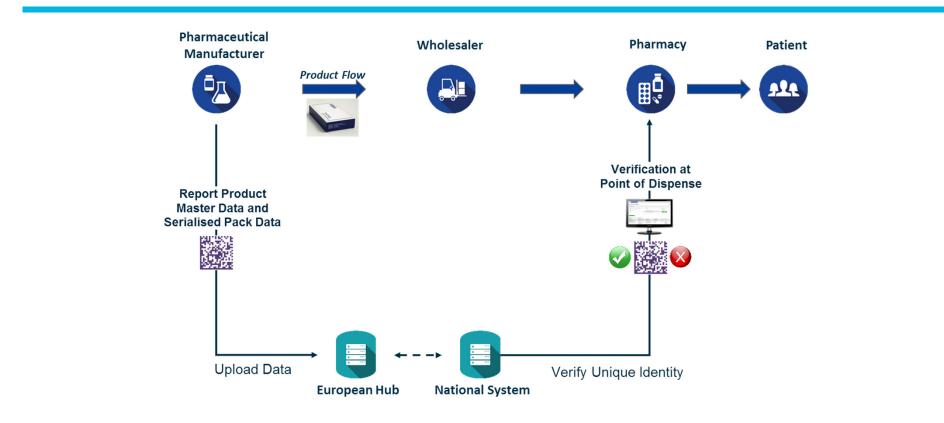


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EU FMD representation - Authentication





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England – NHS





Objectives:

- Deliver efficiency and productivity gains
- Improve data, information and transparency
- Re-think clinical engagement in procurement
- Improve trust capabilities in procurement

Actions:

- Mandate through contracts GS1 standards GTIN, GLN and GDSN – inclusion in tenders
- Six large NHS trusts as "demonstrator sites"
- Standards for eProcurement
- Standards for datasets/classification
- Strong implementation support



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In the rest of the world - traceability





"Traceability is the ability to **track forward** the movement through specified stage(s) of the extended supply chain and **trace backward** the history, application or location of that which is under consideration".



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USA – 2015, 2017, 2023 Drug Supply Chain Security Act (DSCSA)



Scope: Pharmaceuticals (prescription drugs)

Purpose: Traceability, combat counterfeit

Requirements :

- Packaging level: saleable units and homogeneous cases
- Data elements: NTIN, Expiry date, lot/batch number, serial number
- Data carrier: 2D DataMatrix
- Deadlines Full track & trace after 10 years (2023)
- First phase lot based (2015) delayed to 1 March 2016 for dispensers
- Serialisation (SNI) after four years (Nov. 2017)

Traceability Model:

First lot based traceability, full track & trace in 10 years, different guidance documents published US FDA points to EPCIS as one of possible way for exchange of traceability data in their draft guidance, industry alignment around that, several guidance documents published

GS1 US Implementation Guideline: Applying GS1 Standards for DSCSA and Traceability (R1.2)

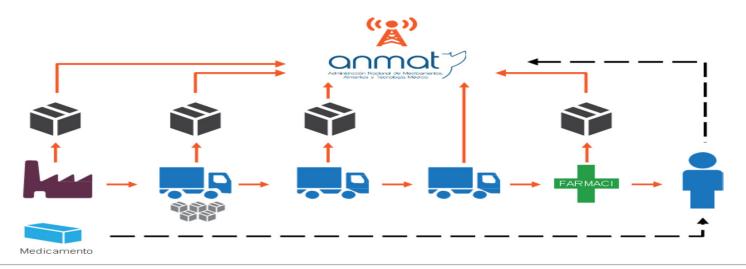
http://www.gs1us.org/industries/healthcare/gs1-healthcare-us-initiative/dscsa/implementation-guide



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Argentina - ANMAT

- Individual and unambiguous identification of each pharmaceutical product to allow its traceability all along the distribution chain. Each time the product moves to a different location, the shipping event data is reported real-time to the ANMAT central repository.
- Products are identified using a GTIN and location using a GLN.
- Phased implementation (2011-2016) by product category based on risk and value.



(GS¹

http://www.gs1.org/docs/healthcare/13_GS1_HC_RefBook2013_All.pdf

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Other LA countries also working on drug traceability





Brazil Pilot on-going Full implementation after 3 years Guideline published



Peru under dev.



Columbia Pilot done Draft resolution released







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Turkey – 2010 Track & Trace C*

Status: Regulation Scope: Pharmaceuticals Requirements as applicable:

- Packaging level: Secondary packaging
- Data elements: GTIN, Expiration Date AI (17), Serial Number AI (21), Batch/Lot Number - AI (10)
- Data carrier: DataMatrix
- Deadlines: June / 2010

Data Submission Portal: Maintained by regulatory authorities **Traceability Model:** Traceability (Track & Trace)



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Turkey – ensuring a safe and reliable supply chain



- The main challenge in Turkey was to ensure and guarantee the reliable supply of drugs to patients
- The solution is traceability, which is defined as full, end to end, actionable visibility of finished pharmaceuticals in healthcare globally, from point of production to point of use.
- Results of Turkey's efforts have been tremendous, and the nation is seeing savings of 1 billion US dollars annually.
- For more information:

http://www.gs1.org/sites/default/files/docs/healthcare/gs1_healthcare_ reference_book_2015-2016.pdf



High level of activities in the MENA region





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GCC – Drug barcoding specifications



Status: Drug barcoding specifications version 0.1 (Sept 2018) **Scope:** Pharmaceuticals

Requirements as applicable:

- Packaging level: secondary packaging
- Data elements: GTIN, Batch/Lot Number, Expiration Date, Serial Number
- Data carrier: DataMatrix
- Aggregation: recommended for packaging stages of the supply chain

Timeframe: Recommendation to the GCC countries



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South Africa Draft barcoding regulation with serialisation



Rwanda Discussions on traceability



Ethiopia See next slide

Developments in Africa



Nigeria Discussions on traceability



Angola Discussions on traceability



OCEAC Conference on PH traceability

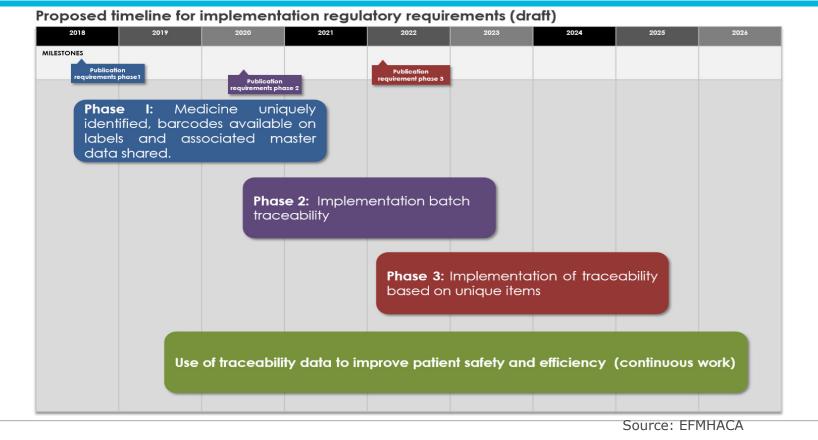


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Ethiopia – 2018 / 2025





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China – new system under development



- CFDA suspended the drug monitoring system in Feb. 2016.
- On 20 July 2016, the new GSP regulation has been released, confirming the transition for a "drug electronic supervision system" to a "drug traceability system" and allowing the use of GS1 standards.
- Beijing Workshop in December 2017 resulted in strong support and alignment around GS1 standards
- 2018: launch of a pilot project in which global and local manufacturers will showcase traceability with GS1 standards from manufacturer to wholesaler (Sinopharm) and retail pharmacies and hospitals. This is largely driven by PSM (Partnership for Safe Medicines), RDPAC (Local association of research-based manufacturers) and CPIA.
- August 24th 2018: CNDA published a drug traceability system guide
- November 2018: new guidance on drug traceability system implementation from China National Medical Products Administration (in Chinese): <u>www.nmpa.gov.cn/WS04/CL2196/331501.html</u>
- All drugs will be in the traceability system in 2022



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And also in Asia Pacific

India

Russia



For export :barcoding since 2013 reporting: on hold For domestic market: ongoing discussions on right approach and technology



South Korea Barcoding and serialization plus reporting

Serialisation, central database, pilot

Indonesia Draft regulation



Pakistan Federal Regulation adopted Barcoding and serialisation



Malaysia Full track & trace under development



Kazakhstan Serialisation pilot



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