

### The European Union's Directive on falsified medicines

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#### **Agenda**

**Background** 

Detailed rules for a unique identifer

Next steps



### Background: the new European Union (EU) Directive 2011/62/EC - main contents

Obligatory safety features

Actors in the supply chain

Quality of active substances <u>,Online</u> <u>pharmacies</u>'



## Background: new rules on 'safety features'

- The rules for ,safety features' for medicines are going to be harmonised at EU level
- Legislator has mandated the Commission to work out all technical aspects in a 'delegated act'
- This delegated act is scheduled for adoptoin in 2014



## **Background: Content of the safety features**

#### a. Unique identifier on the packaging:

- Authenticity feature identifying individual packs ('serialisation number')
- "Repositories system": database where the serialisation numbers are stored
- Verification

#### b. Anti-tampering device



## **Background: Scope of the safety features**

- > All prescription medicines (with possibility of exception on the basis of risk)
- > Over-the-counter medicines excluded (with possibility of inclusion on the basis of risk)
- Inclusion / exclusion by way of Commission legal



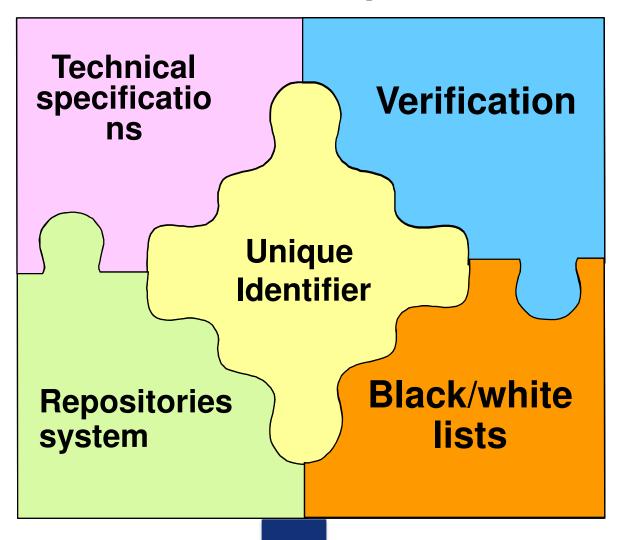
## Background: concept paper on the unique identifier

Public consultation on the detailed rules for a <u>unique identifier</u> ended on 27 April 2012 About 90 contributions (published on Commission website)

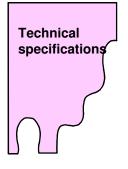
- analysis on-going.
- consultation of Member State experts
- impact assessment ongoing



#### **Detailed rules for a unique identifier**







## Detailed rules for a unique identifier

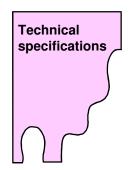
#### **Policy option No 1/1:**

Leaving the choice of the technical specification to the individual manufacturer

#### Policy option No 1/2:

Harmonisation through regulation

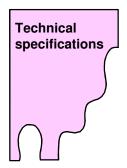




# Stakeholders' input Policy option No 1/2: Harmonisation through regulation

- Ensure interoperability across EU MS of the repository system between different manufacturers and MS
- Uniform application of the system across the EU
- Allow common standard readers and software
- Minimal costs for companies which already have a system of serialization in place
- Crucial for WD and pharmacies to receive products with harmonised machine readable data
- → Unanimously in favour of this option



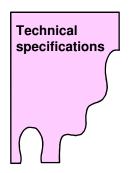


#### Stakeholders' recommendation

 Use established <u>harmonised and internationally recognised</u> <u>standards</u> for identification of products e.g use of ISO standards which are overarching standards such as GS1

- 1) It facilitates the uniqueness of the medicine codes on a global scale
- 2) It is suggested to reach a balance among interoperability between countries and national requirements





### Regulation of the composition of the unique identifier

Manufacturer product code (+prefix code)

Random number= serial number

or

Manufacturer product code (+ prefix of the country)

Serial number of the pack

National reimbursement number

Expiry date

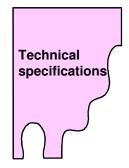
Batch number







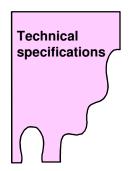




#### Stakeholders' input Additional product information: batch number and expiry date

- **Facilitates** requirement for distributors to **record the batch number** (Art. 80(e) of Directive 2011/62/EU) (savings of 13.2 million euros of labour costs per year)
- Provides traceability of medicines in the supply chain
- Improves recall processes
- Improve stock management of the supply chain according to expiry dates
- Enhance patient safety (beneficial for pharmacovigilance purpose)
- Help healthcare providers to prevent medical errors



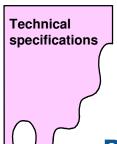


# Stakeholders' input Additional product information: batch number and expiry date

#### **Disadvantages:**

- Requires the use of a 2D Barcode which is not readable by all pharmacies so far (info could be retrieved through the repository system when the medicines are scanned)
- Additional costs for generic companies that use preprint cartons

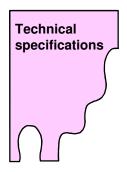




#### Stakeholders 'input Additional product information: National Reimbursement Number

- National numbers required in some countries in a machine readable format
- Prevent the packaging from being cluttered by 2 sets of coding
- Facilitate reimbursement and logistic processes
- This option potentially allows the inclusion of more than one national number in the same code → additional benefit for multi-country packs
- → A cost-effective option



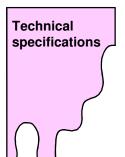


### Regulation of the technical characteristics of the carrier

#### **Options**

- Linear Barcode
- 2D- Barcode
- Radio- Frequency identification device (RFID)





#### Stakeholders 'input Linear Barcode

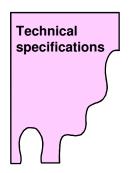
#### **Benefits**:

- Currently widespread (including in healthcare systems)
- Pharmacies can read them
- Sufficient to be in line with the scope of the Directive

#### **Disadvantages**:

- Not suited to hold more than 1 or 2 data elements
- Size pack problem
- More difficult to print
- More prone to damage
- Have lower read rates than the 2D-Barcode

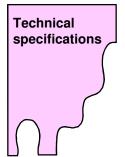




#### Stakeholders 'input 2D - Barcode

- Start to be widely spread in the industry and in other sectors
- Can carry a large quantity of data on a relatively small area/label
- No excessive requirements on printing and scanning technology
- Readable in all the directions on different supports and with other technology (e.g. smartphone)
- → More reliable and affordable



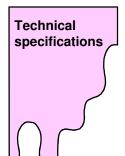


#### Stakeholders 'input 2D - Barcode

#### **Disadvantages**:

- Not possible to pre-print of the UI on cartons. Require additional change of manufacturing lines (input from generic companies)
- New reading devices needed for certain wholesale distributors, hospital pharmacies, pharmacies and retail points
- → impact on the logistic chain and in the packaging lines





#### Stakeholders 'input RFID

#### **Benefits**:

- Allows to "read" the tag when it is out of the line of sight, but within the range used by the antenna
- Can carry a lot of information within fixed information

#### **Disadvantages:**

- High costs (5 times higher compared to 2D Barcode, € 0.10 to 0.15 per tag, reading device: € 3000)
- Not suitable for routine use
- Concern over a possible interference with product quality
- Not appropriate given the current state of RFID technology



#### **Next steps**

#### 2013

- Impact assessment
- Next meeting of the expert group
- Meeting with stakeholders

#### 2014

Adoption of the delegated act



### Thank you!