

# The Deadline for FMD Was February 2019 – Where Are We Now?

April 2019



# Introductions



Feel free to  
contact me  
directly via email

**Andy Cumming**

**Be4ward**

Andy.Cumming@be4ward.com

- **More than 14 years experience of serialisation**
- **Developed GSK's serialisation strategy, established and led the global team**
- **Work with many pharma and medical devices companies helping them:**
  - Develop strategy
  - Design solutions & select suppliers
  - Implement capabilities
- **Career**
  - Designing and implementation of production facilities for MARS
  - Business Process Design for MARS global SAP implementation
- **Chartered Engineer**
  - Honours Degree in Electrical and Electronic Engineering

*We have a team of experienced serialisation professionals at Be4ward.*

# Topics

- Some terms associated with serialisation
- EU FMD & serialisation legislation
- What has happened since 9<sup>th</sup> February 2019
- Questions

*I am going to assume that everyone at this session has a rudimentary understanding of serialisation.*

# Some terms associated with serialisation



# Some definitions for the purposes of this discussion

## Product Coding

- Putting **machine readable product related information on product and/or packaging**
- Reading this information in the supply chain to improve activities



## Serialisation

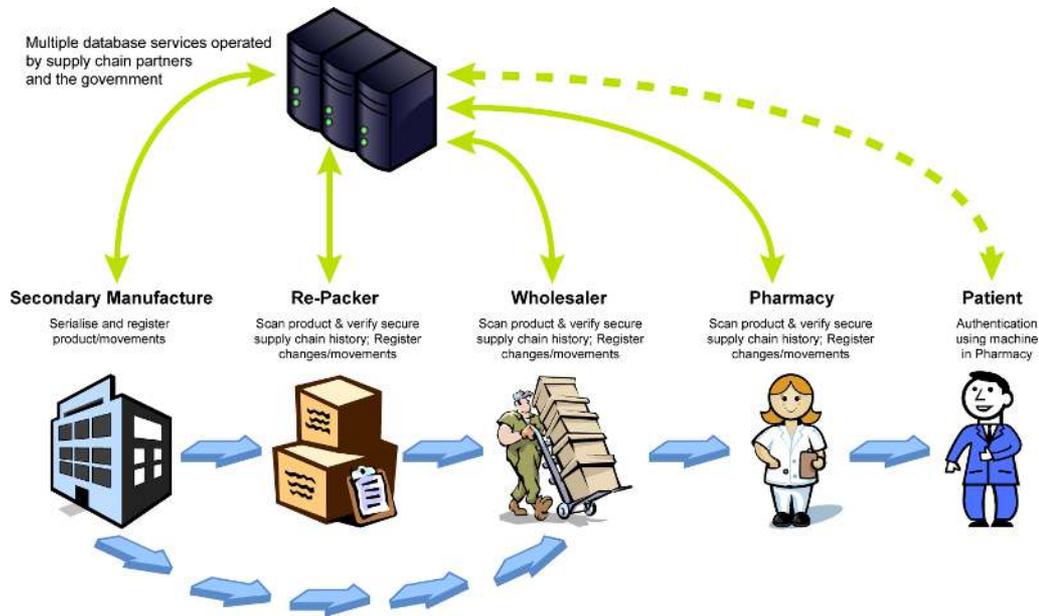
- **Uniquely identifying one or more levels of product and/or packaging** with a unique identifier or serial number
- Using Product Coding to put this information on the product and/or packaging
- **Transmitting serialisation, product and potentially supply chain transaction information to others**
- Reading this information in the supply chain to improve activities
- **Authenticating:**
  - Reading the serialisation information from the product/packaging
  - Retrieving the previously provided information about the product
  - Comparing the product and the information to help verify the product is authentic



***Many companies deal with Product Coding & Serialisation together.***

# It can be useful to think about three models, of which everything else can be considered as a variation

## Illustrative full serialization model:



## Full aggregation is required to achieve this:



## Models for the purpose of this discussion

### 1. Product Coding

- Batch variable product coding

### 2. Serialise and Authenticate

- Unique identification & publish
- Authenticate at point of use

### 3. Track & Trace

- As Serialise and Authenticate, plus...
- Serialise shippers & aggregate
- Supply chain transactions update

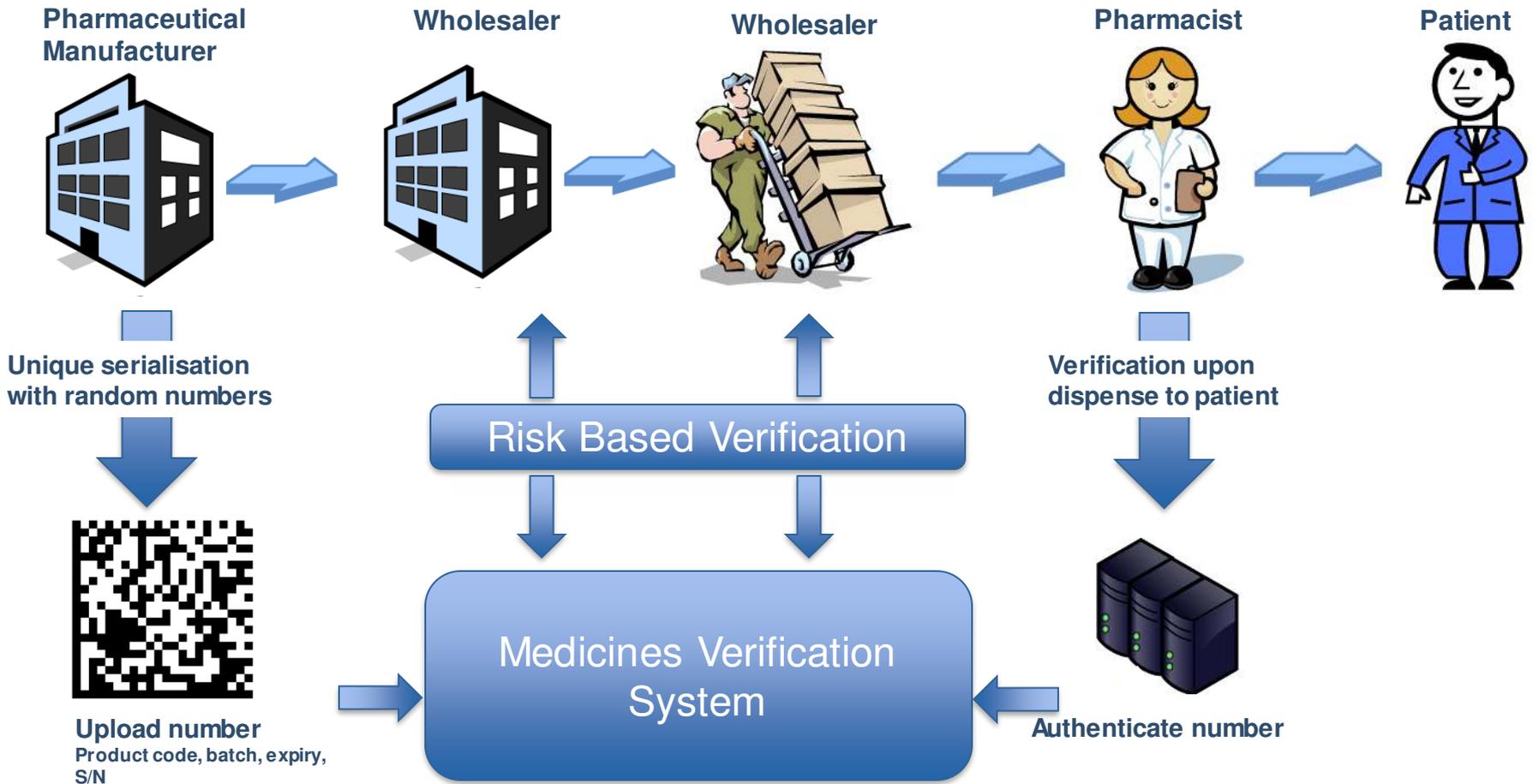
**Examples: France Coding = 1; EU =2; Turkey = 3.**

# EU FMD & Serialisation Legislation



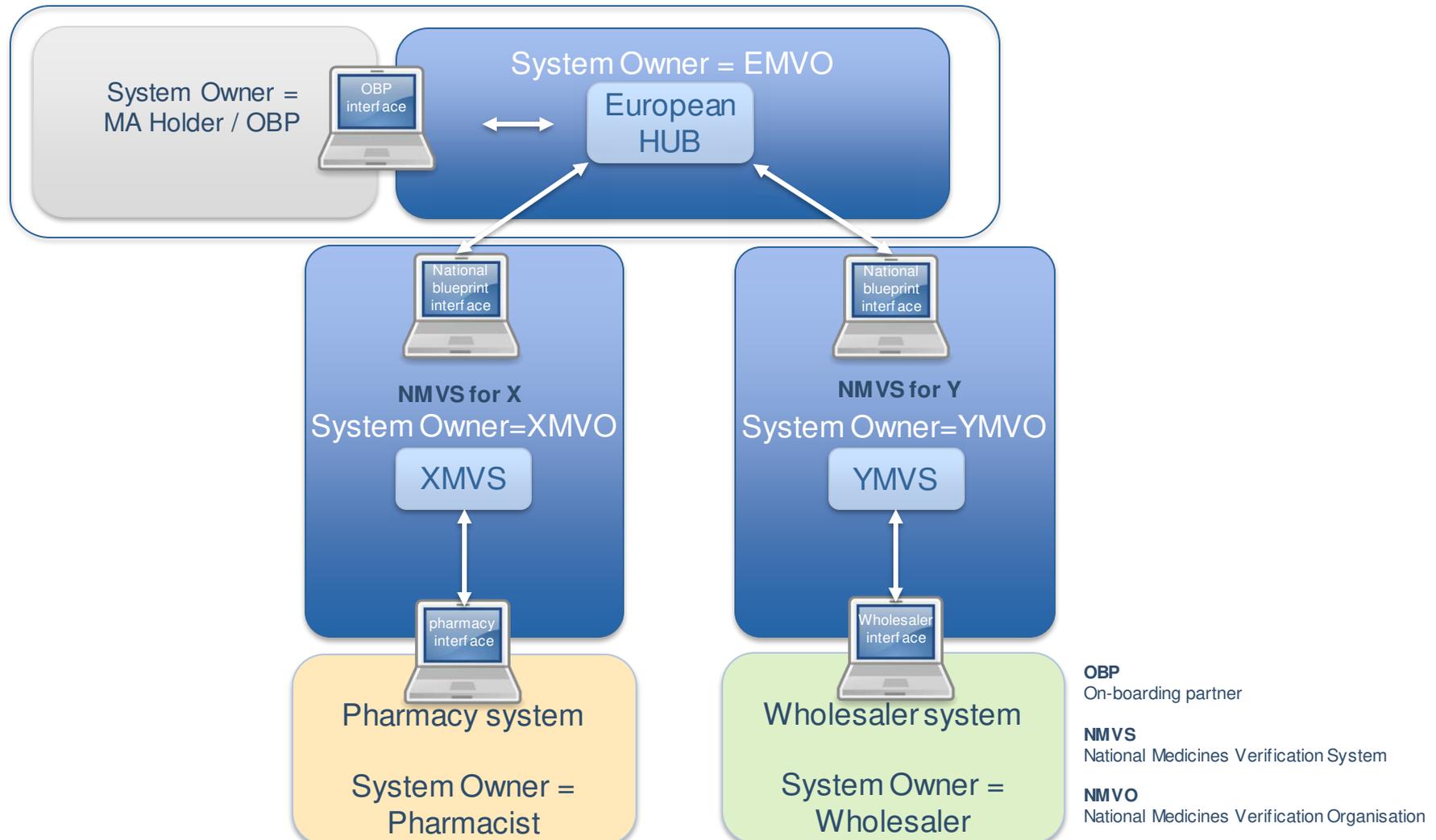
# EMVO Authentication Model

## Product Flow



# EMVO / NMVS Architecture

## System Landscape



# EU FMD Where are we now



# Where are we now?

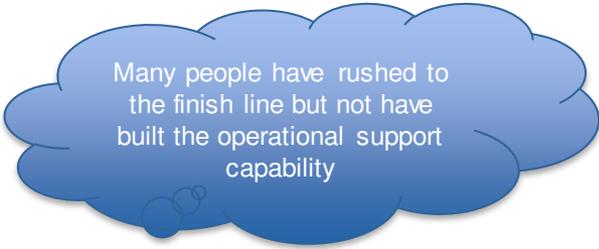
- Systems went live on 9<sup>th</sup> February
  - EMVS
    - OBP / MAH accountabilities (what CMOs can do)
    - Manual upload
    - Alerts
  - NMVS (multiple countries)
    - Reliability of verifications
- Manufacturers are serialising products
  - Change to certification processes
    - Discussion on certification before or after upload
- Where is decommissioning happening?
  - Supply chain (Export – it must not have a UID on not registered with the EMVS)
  - Pharmacy (MAH observation by Client 700 alerts a day)
  - Where should decommissioning be happening (Article 23 – when is a customer article 23, how does the warehouse know) – leads to need for automated decision making
- Tamper Evidence (no standard for Efficacy)
- Multi-Market packs
  - Restrictions less than they could have been

# Some Glitches - if it can go wrong it will...

- Configuration of NTINs
- Usage errors of Serials
- Conflicting Dates in pack / EPCIS
  - What is the right thing to do when no day is in the expiry date human readable.
- Upload of historic data issues
- Make sure that some how you are very clear that the serials are correct complete and accurate before you lose control of the product.



People talk of Turkey being good – almost no alerts  
Europe thousands of alert



Many people have rushed to the finish line but not have built the operational support capability

# Questions



# Be4ward is a niche management consultancy with award winning success in delivering pack change and artwork capability

- Be4ward provides specialist consulting services to the global pharmaceutical industry
- Our team combines operational management experience, subject matter expertise and excellent consulting skills to help our clients deliver successful change
- Whilst we have in depth knowledge of the supply base in our areas of focus, we provide independent advice to our clients
- Our current areas of focus include:
  - **Packaging and artwork management**
  - **Product coding, serialisation and anti-counterfeiting**
  - Product complexity management, late customisation and postponement
  - Secondary packaging supply chain design
  - Post merger legal entity and brand integration
- Contact details:
  - **Andy.Cumming@be4ward.com**
  - London, UK: 0800 098 8795, 0203 318 0395, fax 0203 318 0396
  - Montreal, Canada: 888 308 8657

***Our team have won many awards for their work, including the establishment of a world class global artwork capability for a Top 3 Pharma Co.***

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