Identification and Marking of multi-market packs

Ask the expert: Grant Courtney

Introductions

- Grant Courtney

    - Member of GS1 Healthcare Leadership Team

    - Co-author of the GS1 discussion paper on Multi-market packs

    - 20 Years experience in healthcare

Lets start with some basics . . .

- What is a multi-market pack
  - A product which is designed to be supplied and used in more than one country

- What are the key terms I need to understand
  - **GTIN** – The GS1 Identification Key used to identify trade items. The key comprises a GS1 Company Prefix, an Item Reference and Check Digit

  - **NTIN** – A coding scheme, administered in the Healthcare sector by a national organisation for which a GS1 Prefix has been issued to permit its uniqueness within the GTIN pool but without assurance of full compatibility with GTIN functionality.

  - **NHRN** – National and/or regional identification numbers for product registration purposes and/or for the management of Healthcare provider reimbursement

Why do we need a discussion document ?

GTIN = 09504000059101

- 1 GTIN country
- 2 GTIN country
- 3 GTIN country
- 4 GTIN country

- NTIN country
- National country
- National country

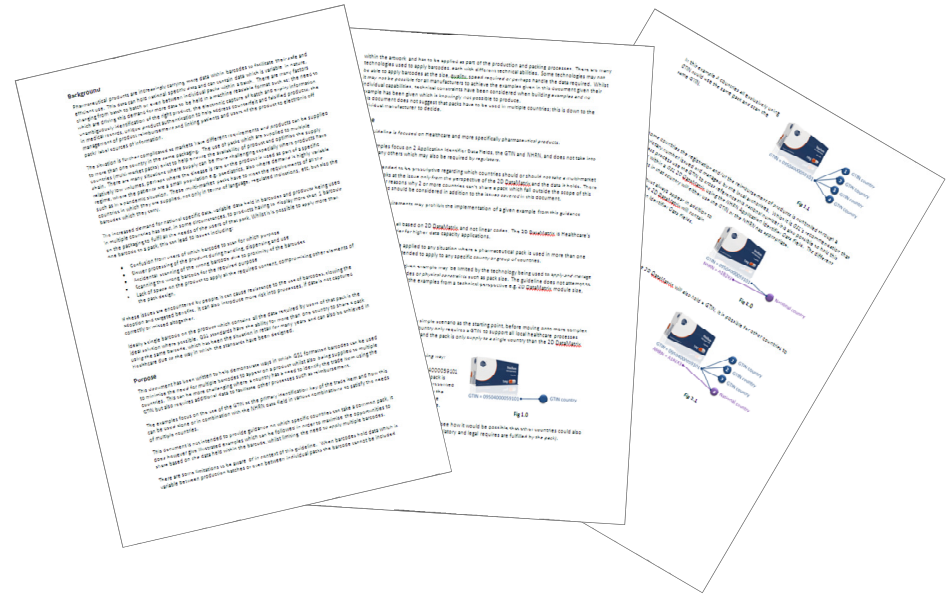**We will look at this in some of our scenarios**

- If all countries identify the product using a GTIN then its easy

  - One Multi-Market pack
  - One barcode
  - One GTIN
  - Many countries

- But what if they don't use GTIN or also use other identifiers ?

The Discussion Paper

- The discussion paper was written to help demonstrate ways in which GS1 bar codes can be used to minimise the need for multiple bar codes to appear on product packaging while still enabling products to be supplied to multiple countries.

- Including how GTIN, NTIN and NHRNs can be used together

Lets look at the second scenario

NTIN = 00334000059101 — • NTIN country

- A country uses an NTIN

- Can this pack be shared with other countries ?

NTIN = 00334000059101 —
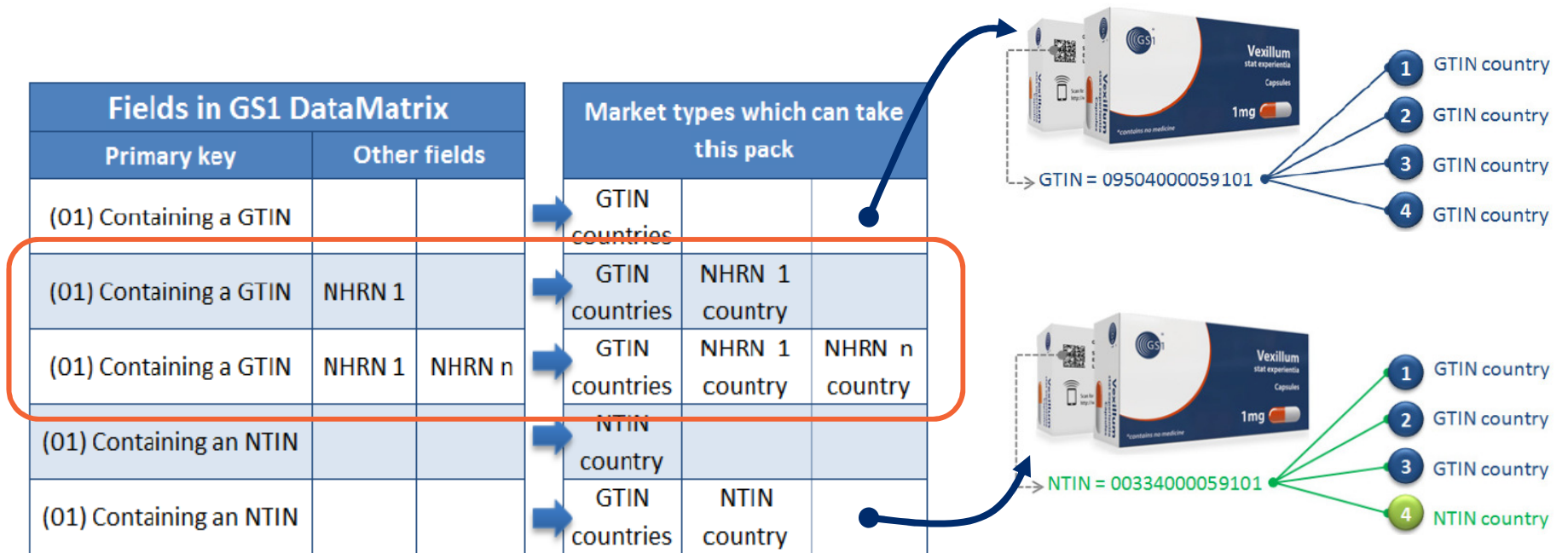1. GTIN country
2. GTIN country
3. GTIN country
4. NTIN country

- Yes, this pack can also be taken (in principle) with other GTIN countries*

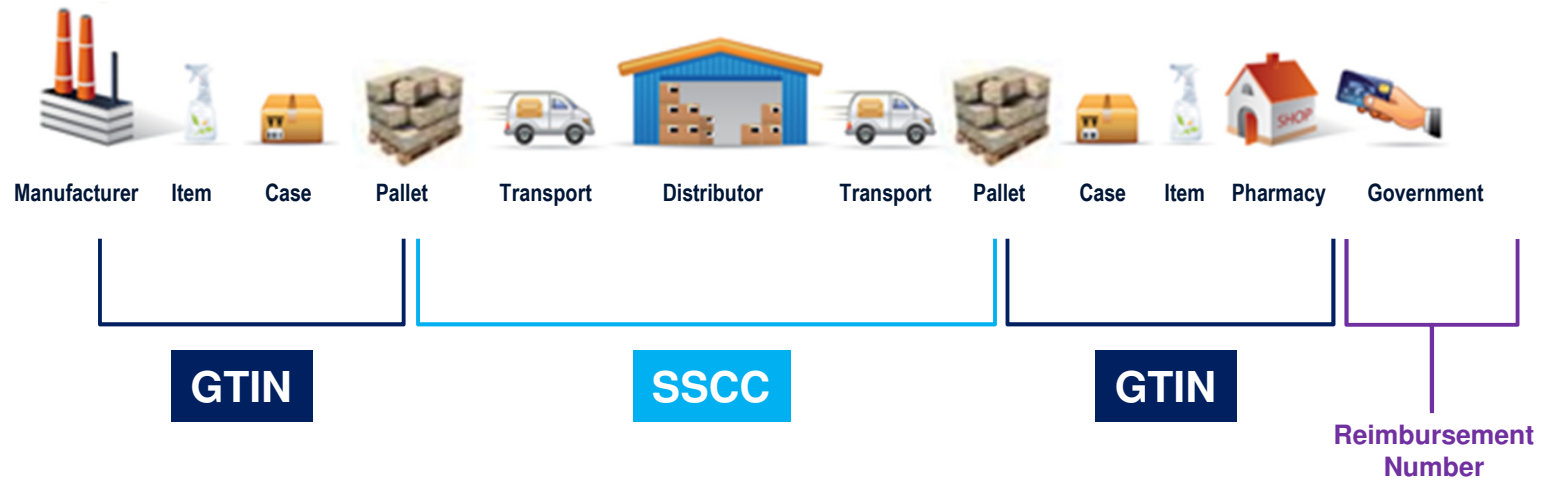* The government's host system must be configured to use the correct AI

The document works its way through different scenarios

Fields in GS1 DataMatrix				Market types which can take this pack		
Primary key	**Other fields**					
(01) Containing a GTIN			→	GTIN countries		
(01) Containing a GTIN	NHRN 1		→	GTIN countries	NHRN 1 country	
(01) Containing a GTIN	NHRN 1	NHRN n	→	GTIN countries	NHRN 1 country	NHRN n country
(01) Containing an NTIN			→	NTIN country		
(01) Containing an NTIN			→	GTIN countries	NTIN country	

Vexillum
stat experientia
Capsules
1mg
*contains no medicine

GTIN = 09504000059101

1 GTIN country
2 GTIN country
3 GTIN country
4 GTIN country

Vexillum
stat experientia
Capsules
1mg
*contains no medicine

NTIN = 00334000059101

1 GTIN country
2 GTIN country
3 GTIN country
4 NTIN country

Lets examine some of the slightly more complex scenarios

Why do other identifiers exist ?

Manufacturer | Item | Case | Pallet | Transport | Distributor | Transport | Pallet | Case | Item | Pharmacy | Government

GTIN | **SSCC** | **GTIN** | **Reimbursement Number**

- Processes exist in countries which are controlled by numbers other than GTIN

- Reimbursement is sometimes an example of this

Multi market example

Example of the actual pack	Data encoded in the GS1 DataMatrix	Countries taking the pack

Example of the actual pack

GTIN (01) 09504000059101
Reg No (713) 1312345678913

SN (21)   12345678p901
Lot (10)   1234567P
EXP   20 Nov 2014

Scan for online product information or go to:
http://www.gs1.org/demo/09504000059101

Data encoded in the GS1 DataMatrix

(01) 09504000059101
(17) 141120
(10) 1234567P
(21) 12345678p901
(713) 1312345678913
(8200) http://www.gs1.org/demo/

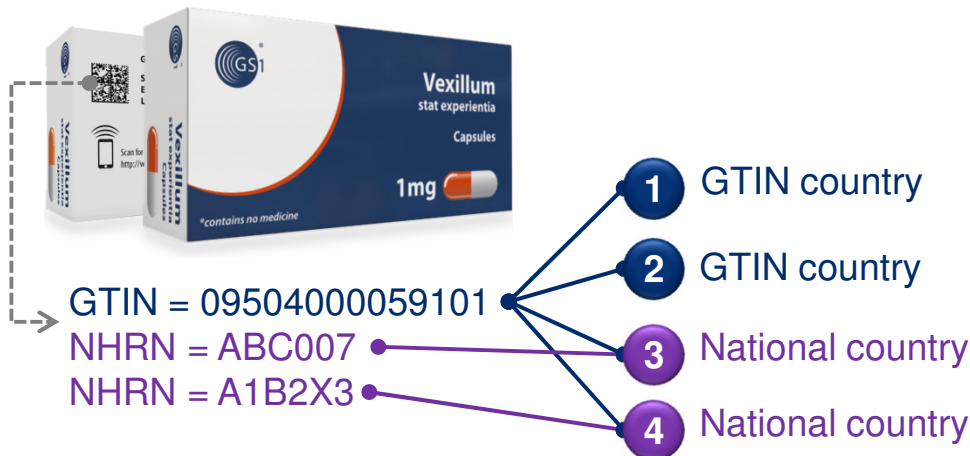**Countries taking the pack**

1 GTIN country
2 GTIN country
3 GTIN country
4 National country

- The reimbursement number can be encoded in the NHRN field as an attribute of the GTIN
- This example also includes a serial number and URL to show how different keys can be combined

More than 1 NHRN can be encoded within a GS1 DataMatrix

GTIN = 09504000059101
NHRN = ABC007
NHRN = A1B2X3

1. GTIN country
2. GTIN country
3. National country
4. National country

- It is possible to encode multiple NHRN's into the data carrier*

- Several countries with NHRN's can therefore share the same pack

* There may be technical constraints which limit a manufacturers' ability to encode multiple NHRNs, also the government's host system must be configured to use the correct AI
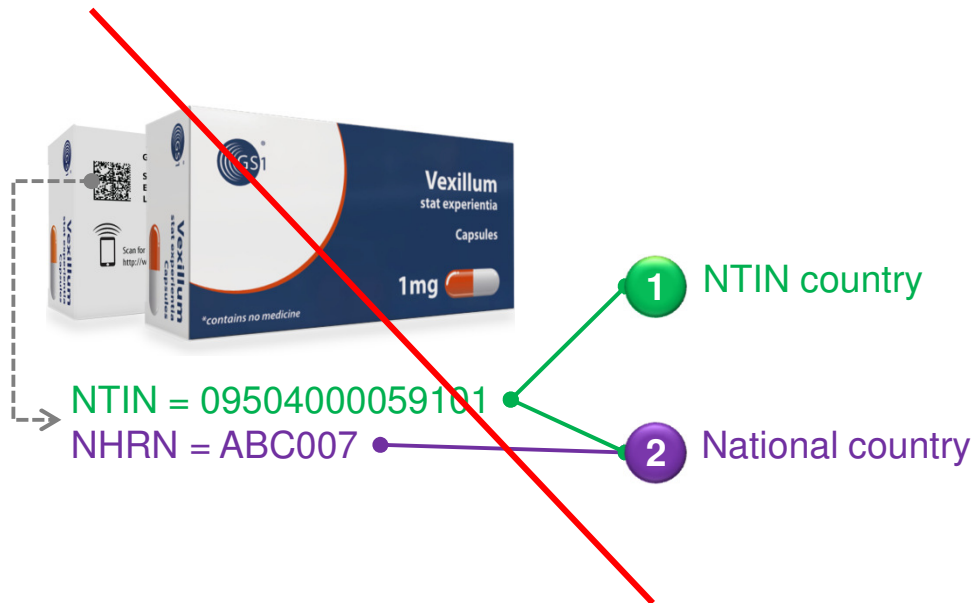
What if a country does not use GTIN

National = A1B2X3

4 National country

- If a country uses a national number and this is not encoded as an NHRN then the pack can not be shared or would have to carry multiple data carriers

You can not combine an NTIN and NHRN

NTIN = 09504000059101
NHRN = ABC007

1 NTIN country

2 National country

- You should not combine an NTIN and NHRN*

- The NHRN is always a GTIN attribute

*As the global usability of an NTIN is not assured it is not advised to use NHRN with NTIN

Where can I get more information ?

- Discussion Paper Product Identification in Healthcare

  http://www.gs1.org/sites/default/files/docs/healthcare/20140319%20Discussion%20Paper%20Multi-Market%20Pack%20Guideline.pdf

- Position Paper (II), Healthcare Provider Advisory Council, Implementation in hospitals hindered by bar code symbol issues

  http://www.gs1.org/docs/healthcare/20121017_FINAL_HPAC_Position_Paper_Bar_Code_Issues.pdf

- GS1 General Specifications

  http://www.gs1.org/genspecs

Questions

Thank you

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