

# **GS1** in Defence





- 1. Intro Defence
- 2. GS1 & NATO
- 3. NCS (NATO Codification System)
- 4. Next Steps



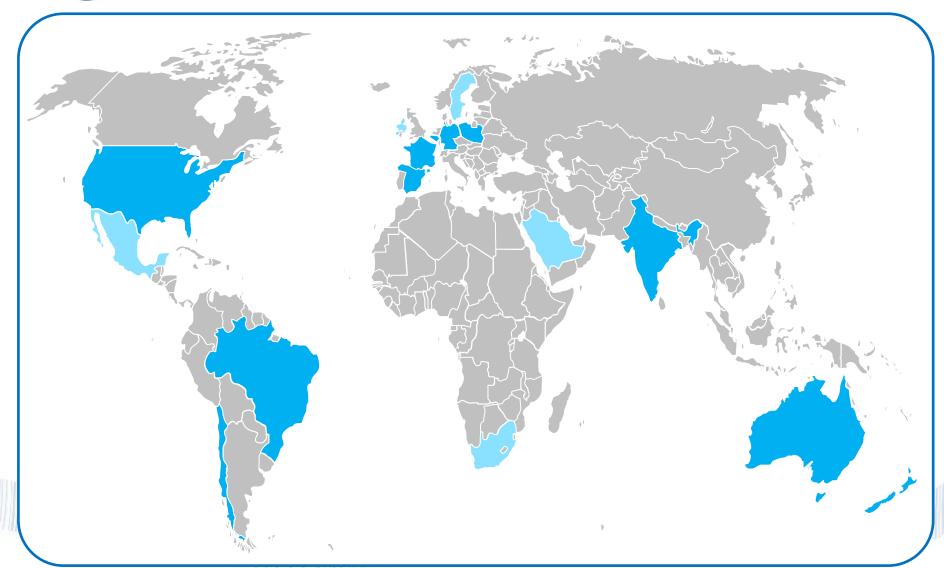
- Areas of interest for standardization (first line)
  - Identification of equipment (internal logistics)
    - Acquisition
    - Warehousing, mgt and distr. of resources
    - Maintenance
      - Spare parts change ID yearly, but not communicated
    - disposal
  - Relationship with (civilian) suppliers
  - Logistics during operations (interoperability)



- Drivers for linking NCS & GS1
  - Efficient logistics
  - Defence budgets shrinking
- External drivers
  - Enhance technical dialogue amongst users & contractors
  - Promote (international) co-operation / intensify contacts
  - Facilitate effort of standardization agencies
  - Focus on UID

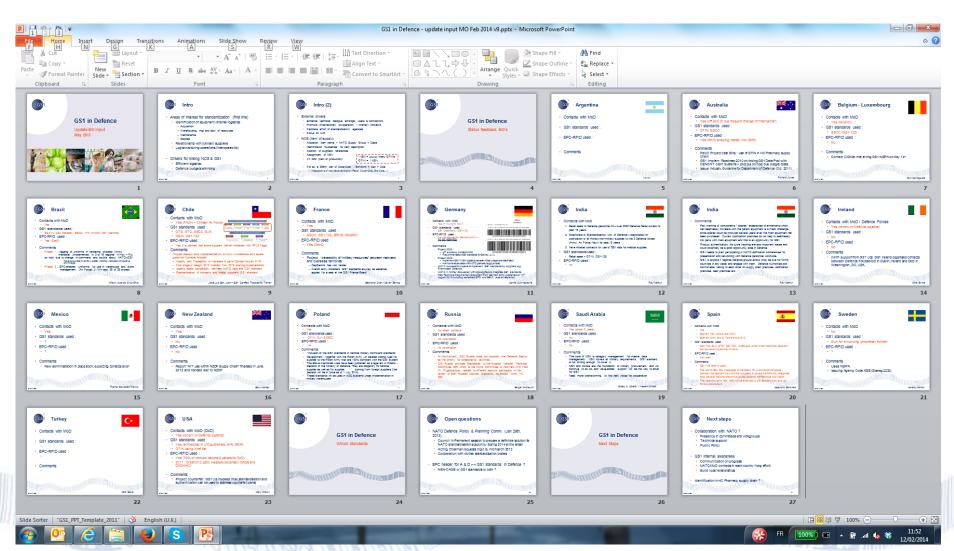


# MOs involved with / interested by Defence





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### **GS1** and **NATO**

Engaging RE-Engaging







- 1999-2002 : NCS/EAN/UCC working group (5 meetings)
- 2006: Techn. Coop. Agreement NATO & GS1
  - Intro of GS1 standards (EPC/RFID) in some NATO standards
- 2008 : NATO policy to use suitable civilian standards joint meetings started with GS1 and 8 other standard bodies
- 2009 : STANAG 2290 (1<sup>st</sup> edition)
  - Standardise the Unique Identification of Items (UID) using a Unique Item Identifier (UII)
  - GS1 is mentioned as an Issuing Agency and the GCP as an authorised identifier of a company
  - Recognised UII equivalents: GRAI (8003) & GIAI (8004)
  - Reference to GS1 Gen Specs
  - Over time some references to GS1 were taken out
- 2011 : Strategy Paper on NATO relationship

....regular contacts faded out since...



- 2013 (January): we have actively picked up the relationship
- Two high level meetings (April & August 2013) with NSPA
- GS1 Workshop @ NATO World Codification Forum (Nov 2013)
- Proposal to AC/135 for joint GDSN pilot (Dec 2013 March 2014)



### AC/135 and NSPA





- Re-engagement with NATO through AC/135 and NSPA (NATO Support Agency)
- NCS is managed and run by
  - National Directors on Codification Allied Committee 135 (AC/135).
    - NCB National Codification Bureau
  - Committed to increase effectiveness and efficiency of global logistics systems and operations

### NSPA

provides specific technical and administrative support



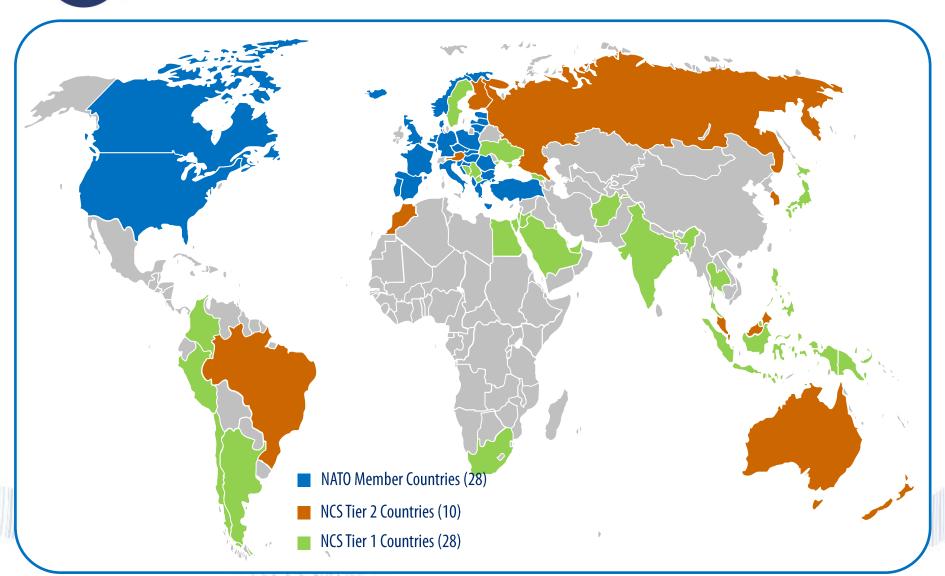
## **NCS**

NATO
Codification
System





# NCS (NATO Codif. System) Countries



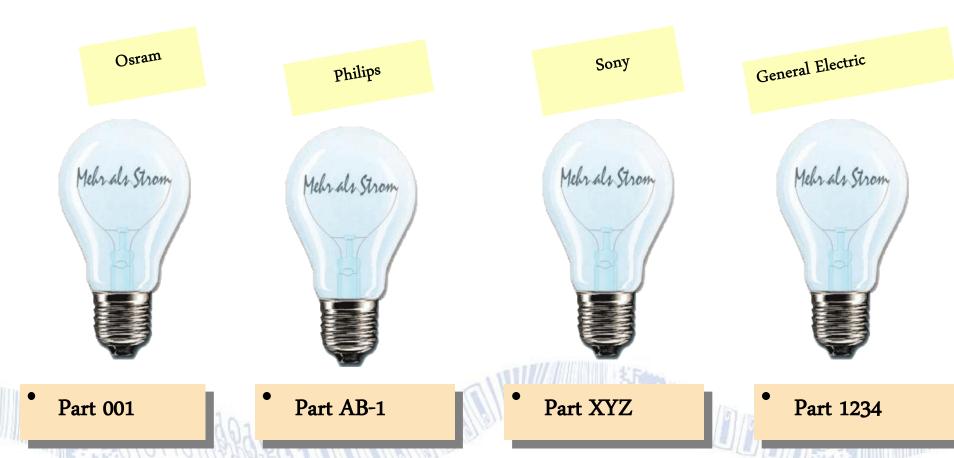


### **NSN** and GTIN

- The NATO Stock Number (NSN) identifies a type of article
  - Item of supply ("same form / fit / function")
  - Allocation item name + NATO Supply Group + Class
  - Identification Guidelines for item description
  - Addition of suppliers references
  - Assignment of NSN
  - For ex. a 355ml can of Coca-Cola: Softdrink > Can > Cola
    - Irrespective of manufacturer/brand (Pepsi, Coca-Cola, Afro-Cola,...)
- The Global Trade Item Number identifies actual products that are traded
  - Item of production
- One NSN typically corresponds to several GTINs (but 1 GTIN = 1 NSN)
- Maintaining the relationship between NSN and GTINs can facilitate trade and logistic processes
- GTIN may meet the requirements of the NATO Supplier Source Codification (SSC)



# **Many Items of Production**



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# One Item of Supply



**5306 - 99 - 123 - 4567** 

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### **GS1 Standards in use at NATO**

 Several GS1 Identifiers meet the requirements of STANAG 2290 (NATO Unique Identification of Item)

#### **UID**

- → (S)GTIN for "civilian" products
- → GIAI /CPID : for individual asset or part of it
- → GRAI : for returnable/exchangeable asset
  - (transport equipment such as container, pallet, case, crate,..)
- Standard NATO Agreements based on GS1 standards:
  - STANAG 4329, NATO Standard for Bar Code Symbology
  - STANAG 4281, NATO Standard for Marking for Shipment and Storage
- Application Identifier 7001 and 241 indicates that the GS1 data field contains an NSN-NATO stock number (7001) or NCAGE/Part nr. (241)
- SSCC, GLN, GSIN

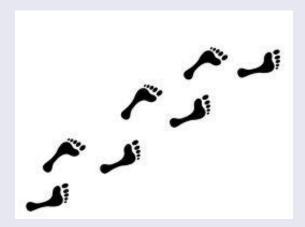


### Other coding / messaging opportunities

- The ATC (Anatomical Therapeutic Chemical) Code is an optional attribute of GDSN
- GS1 Electronic Product Code (EPC) formats are used extensively by Defence organisation in some countries for applications using RFID
- eCom (EDI, EanCom, XML) use of electronic messages by various Defence organisations worldwide
  - PRICAT, DESADV, RECADV, Invoice, etc...)



# **Next Steps**





## **Next Steps**

- Proposal Joint GDSN Pilot (GS1 NCS)
  - 1. Determine the range of data that could be exchanged based on the following procedure:
    - a) Review the level of crossover in item types between GDSN and NCC (Network Coordination Centre) and
    - b) Determine the range of data that could be exchanged between GDSN and NCS based on the common Item Types.
  - Create a protocol for automated data exchange between GDSN and the NCS and do some tests with transaction requests for data
  - most significant task of this project will be to map data between GDSN and NCS. The mapping would include classes (item names) and properties and property values.



# **Cross reference GPC & NSG**

**30 NSG** 

out of

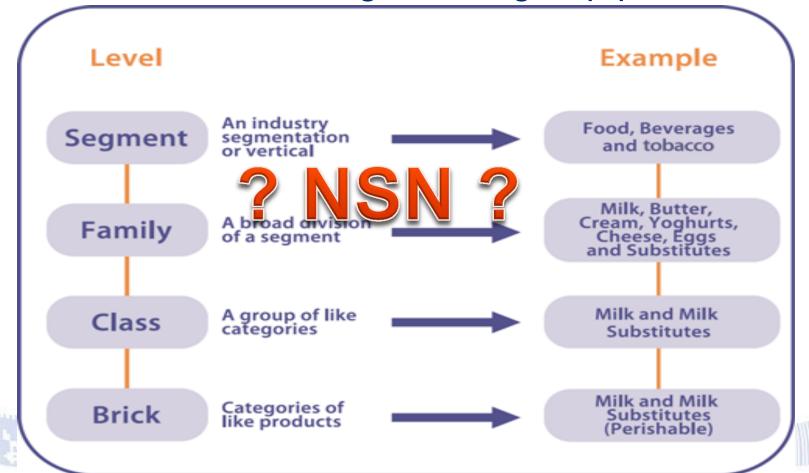
**36 GPC** 

GPC Segments	NATO Supply Groups (NSGs)
Arts/Crafts/Needlework	
Audio/Visual/Photography	67 – Photographic Equipment
Automotive	23 - Ground Effect Vehicles, Motor Vehicles, Trailers, and Cycles
Baby Care	
Beauty/Personal Care/Hygiene	85 - Toiletries
Building Products	56 - Construction and Building Materials
Camping	Textiles, Leather, Furs, Apparel and Shoe Findings, Tents, and Flags
Cleaning/Hygiene Products	79 - Cleaning Equipment and Supplies
Clothing	84 - Clothing, Individual Equipment, and Insignia
Communications	58 - Communication, Detection, and Coherent Radiation Equipment
Computing	70 - Automatic Data Processing Equipment (Including Firmware), Software, Supplies and Support Equipment
Electrical Supplies	59 - Electrical and Electronic Equipment Components
Food/Beverage/Tobacco (FBT)	89 - Subsistence
Footwear	84 - Clothing, Individual Equipment, and Insignia
Fuels	91 - Fuels, Lubricants, Oils, and Waxes
Healthcare	65 - Medical, Dental, and Veterinary Equipment and Supplies
Home Appliances	73 - Food Preparation and Serving Equipment
Household/Office Furniture/Furnishings	71 – Furniture
Kitchen Merchandise	73 - Food Preparation and Serving Equipment
Lawn/Garden Supplies	37 - Agricultural Machinery and Equipment
Live Animals	88 - Live Animals
Lubricants	91 - Fuels, Lubricants, Oils, and Waxes
Music	77 - Musical Instruments, Phonographs, and Home-Type Radios
Personal Accessories	
Pet Care/Food	
Plumbing/Heating/Ventilation/Air Conditioning	47 - Pipe, Tubing, Hose, and Fittings
Safety/Security/Surveillance	42 - Firefighting, Rescue, and Safety Equipment; and Environmental Protection Equipment and Materials
Safety Protection - DIY	
Sports Equipment	78 - Recreational and Athletic Equipment
Stationery/Office Machinery/Occasion Supplies	75 - Office Supplies and Devices
Storage/Haulage/Containers	81 - Containers, Packaging, and Packing Supplies
Textual/Printed/Reference Materials	76 - Books, Maps, and Other Publications
Tool Storage/Workshop Aids	51 – Hand Tools
Tools Equipment - Hand	51 - Hand Tools
Tools Equipment - Power	51 – Hand Tools
Toys/Games	



### **Global Product Classification**

Set of common categories to group products





# Next Steps (2)

### Some reflections on GDSN:

- NCS database has been designed to meet the needs of defence, but approx. 25 to 33% of items that have NSNs are also sold at retail and thus may be found in the GDSN network.
- One outcome of this study would be to define with more precision the crossover between GDSN and NCS data and develop a list of commodities that comprise the crossover.
- Potential for GS1 to draw more sectors into the GS1 Member community and into GDSN

### Independent of these NATO/NSPA and GO activities

→ Continue liaising locally with MoD and the NCB (National Codification Bureaus)



# **Thank You**



### **Questions?**





### **Contact Details**

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# **GS1** Australia

GDSN Pilot in Australia





# **Update EPC for Logistics**





# **GS1 Germany**

## TLB for (S)GTIN and AIT





# **GS1 United States**

### **Authentication Study**

