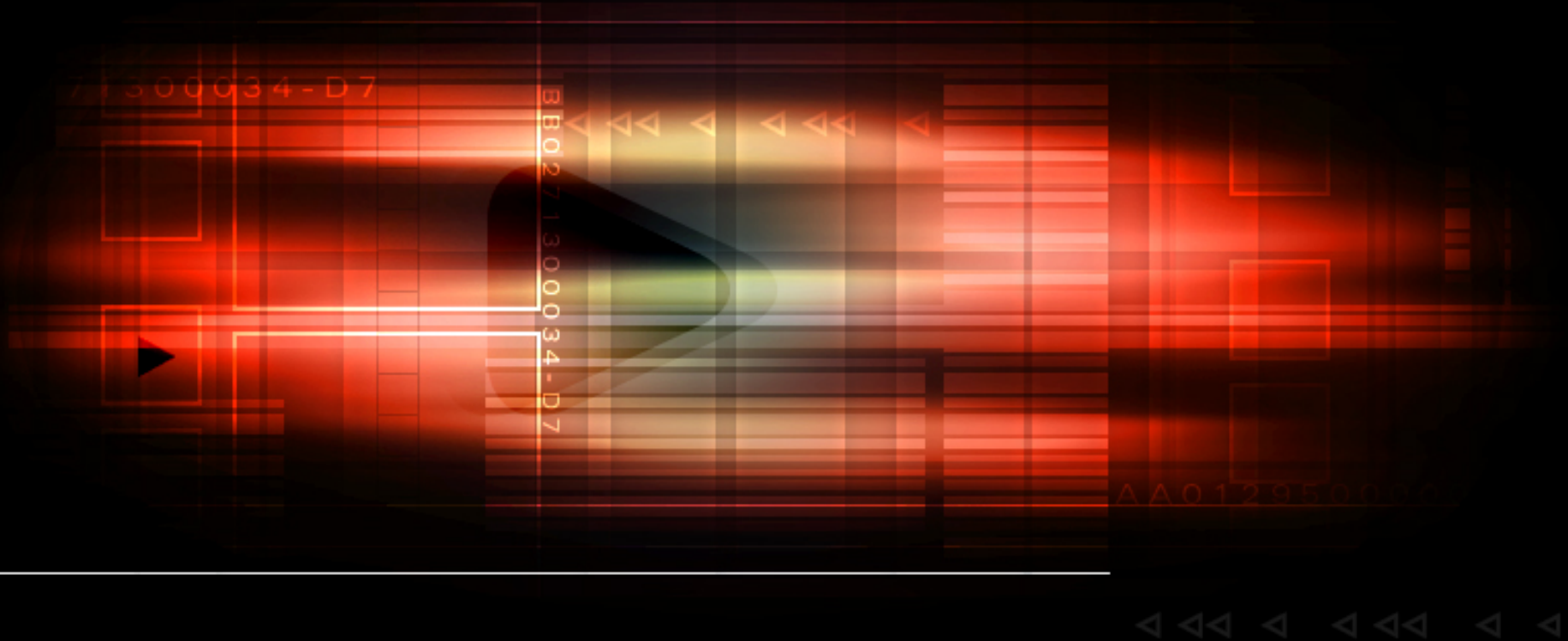# Unique Item Identification

Actions for SC 31

- **Need to ensure appropriate standards for item identification and direct part marking**
  - Data structure
    - New work item for SC 31/WG 2 for Unique Item Identification
    - New work item for SC 31/WG 2 for the use/implementation of Unique Item Identification including appropriate symbology recommendations
  - Data carrier
    - Revise 16022 (Data Matrix) to address Russian Federation concerns and encode algorithm
    - Revise 18004 (QR Code) to include MicroQR Code
    - Complete 19xxx (microPDF417)
    - New work item for RSS - Composite (i.e., pharmaceutical individual unit dose)
    - Support and active liaison to ISO 122/104 JWG (ISO 17367 - Supply Chain Applications of RFID - Product Tagging)
  - Conformance
    - Ensure 15415 will adequately address both additive and subtractive marking techniques; if not revise
    - New work item - Technical Report on how to mark various materials with various marking techniques

Many applications require item identification to include UID

- Direct part marking
- Product traceability
- Repair
- In-service reporting
- Warranty
- Returns processing
- Preventative and predictive maintenance
- Health care unit dose
- . . .

What is it?

- Uniquely identifies an asset (item of value) to permit that identification to be unique from any other item in the world.
  - Choice 1 - A globally acceptable organization to assign unique identification (not likely in today's environment)
  - Choice 2 - A schema permitting industry specific identification of items (more likely)

- Example of uniqueness can be found in ISO 15459 for "license plates"

What makes the number unique

- A flag to denote unique identification of the item or of the assigning registration authority (RA) (an "identifier")

- A unique controlled code assigned by the RA to an issuing agency (Issuing Agency Code - IAC).

- A unique company identification number (CIN) assigned by the Issuing Agency

- A serial number assigned by the organization controlling the CIN

. . .

What makes the number unique

. . .

- The serial number can be unique across the company (preferred); or
- The serial number can be unique with a specific product within the company
- Some products may have either or both a serial number and a lot/batch number
- Some products may have neither a serial number or batch number and may simply have a product code.

Examples of UID (using 15434)

[)>^R_S05^G_S0100098756100013^G_S21MJH80312$^R_S$$^E_O_T$

[)>^R_S05^G_S800400098756MJH80312$^R_S$$^E_O_T$

[)>^R_S05^G_S0100098756100013^G_S10198011$^R_S$$^E_O_T$

[)>^R_S06^G_S25SUN043325711MJH110780$^R_S$$^E_O_T$

[)>^R_S06^G_S18VUN043325711^G_SPABC01^G_SSMJH110780$^R_S$$^E_O_T$

[)>^R_S06^G_S18VUN043325711^G_SPABC01^G_S1T198011$^R_S$$^E_O_T$

Legend

Identifier
CIN
Product
Traceability
Overhead

Examples of UID (ePC)

$b_1 - b_8$ $b_9 - b_{32}$ $b_{33} - b_{56}$ $b_{57} - b_{96}$

Header   Manufacturer   Product   Serial Number
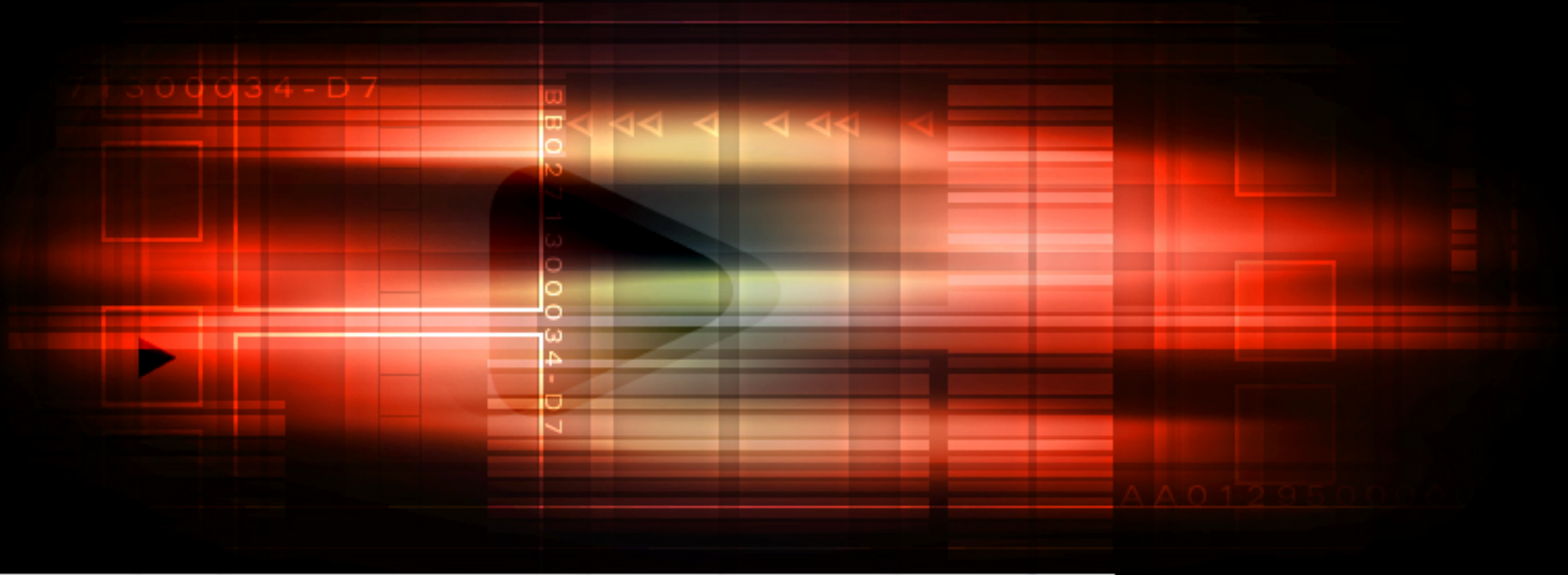
Legend

Identifier
CIN
Product
Traceability

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Thank you!!!

Questions??