Putting it all together
12 September 2018 – Dublin
Transforming business together
Session: Lunch & Learn
Time: 12:30 – 13:30

Who may attend: All

Speakers: Phil Archer, Tim Marsh, Aaron Miller, Gena Morgan, Markus Mueller, Kevin Stark, Elena Tomanovich
Anti-trust caution

• GS1 operates under the GS1 anti-trust caution. Strict compliance with anti-trust laws is and always has been the policy of GS1.
• The best way to avoid problems is to remember that the purpose of the group is to enhance the ability of all industry members to compete more efficiently.
• This means:
  - **There shall be no discussion of prices, allocation of customers, or products, boycotts, refusals to deal, or market share.**
  - If any participant believes the group is drifting toward impermissible discussion, the topic shall be tabled until the opinion of counsel can be obtained.
• The full anti-trust caution is available via the link below, if you would like to read it in its entirety: [http://www.gs1.org/gs1-anti-trust-caution](http://www.gs1.org/gs1-anti-trust-caution).
Meeting etiquette

- **Meetings will begin promptly as scheduled**
- **Be present – avoid multi-tasking**
- **Avoid distracting behaviour:**
  - Place mobile devices on silent mode
  - Avoid sidebar conversations
- **Be considerate**
  - Avoid monologues
  - Keep comments concise
- **Respect work group decisions**
  - Avoid re-opening decisions unless there is a significant quality impact

- **Collaborate** in support of meeting objectives
  - Ask questions
  - Be open to alternatives
- **Be representative**
  - Avoid personal remarks
  - Do not speak for your company or community if you do not clearly understand their needs
  - Votes should reflect the needs of your company or community
GS1 Industry & Standards Event App

1. Get the App by searching your App store for "GS1 Global Events" (If you already have the Global App due to attendance at the Global Forum or Standards Event, you do not need to do this)

2. Once you have the Global App on your mobile device, type GS1IS18 in the search box. Please click the orange (+) to activate the event within your application.

3. Login with the email address you used to register for the event:
   
   Username: (your registered email)  
   Password: GS1events
WiFi internet access

• Select network “GS1events” and connect
• Password:  GS1events
“Putting it all together”

• Traceability, C-IoT, Fresh Foods, Apparel, Blockchain and the Web
  - none of these exist in isolation; they're all part of what GS1 does
  - but how do they all fit together?

• Follow the “quiz” and test your knowledge!
What portion of globally manufactured chemicals are applied in the textile industry?

A. 5%
B. 10%
C. 25%
D. 45%
What portion of globally manufactured chemicals are applied in the textile industry?

A. 5%
B. 10%
C. 25%
D. 45%

• C is the correct answer.
Traceability in Fashion: an urgent need

10% of textile-related substances are of potential concern to human health

25% of chemicals manufactured globally are applied in the textile industry

19% of all insecticides and 9% of all pesticides are used on cotton

Producing 1kg of cotton requires up to 20,000 litres of water
Why are Omni-channel inventory management and stock efficiency the major use-cases in RFID adoption today?

A. It helps speeding up the returns management process.
B. Use of RFID to manage inventory ensures that high margin products are always sold first.
C. By adopting SGTIN & RFID in Omni-channel business industry tries to minimise waste of GTINs.
D. RFID brands & retailers need to better utilise their stock across channels by knowing what product is available in which location in exact amounts.
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D. RFID brands & retailers need to better utilise their stock across channels by knowing what product is available in which location in exact amounts.

• D is the most correct answer.
Omni-channel inventory management

Brick&mortar, separate stores and store concepts, online often are operated independently and stock information is stuck in silos

Click & Collect, return in store etc. cause goods to move across channels Accuracy and transparency help driving sales and reduce cost in Omni-channel

EPC/RFID brands & retailers to better utilise their stock across channels by knowing what product is available in which location in exact amounts
Which statement is FALSE?

A. 10% of world population – an estimated 600 million people - become ill after eating contaminated or unsafe food.
B. The maximum number (count) of concatenating data strings/characters in a GS1-128 barcode is 128.
C. IoT technology enables companies to monitor of food throughout the supply chain and detect or predict the risk of spoilage for perishable foods.
D. Global online sales of food and beverage products is projected to double to €288 Billion by 2023.
Which statement is FALSE?

A. 10% of world population – an estimated 600 million people - become ill after eating contaminated or unsafe food.

B. The maximum number (count) of concatenating data strings/characters in a GS1-128 barcode is 128.

C. IoT technology enables companies to monitor of food throughout the supply chain and detect or predict the risk of spoilage for perishable foods.

D. Global online sales of food and beverage products is projected to double to €288 Billion by 2023.

• B is the statement that is FALSE.
Internet of Things (IoT) includes sensors, machine learning, artificial intelligence and analytics.

Sensors enable companies to monitor quality and movement of temperature sensitive food across the supply chain and predict the risk of spoilage.

Enhancements to EPCIS and CBV standards: capture and share sensor and sensor-based quality data in EPCIS events.

Fresh Foods – Customers want fresh & quality

✓ Cold chain management across the supply chain - and the last mile
✓ Sourcing maybe seasonal, geographically diverse

Globally, online sales of food and beverage products will DOUBLE over the next 5 years to reach €288 billion
What problem does the Digital Link (Web URI) standard solve?

A. It’s about manufacturers linking products to multiple related online resources
B. It’s about moving to QR codes instead of 1D for supply chain
C. It’s about making our offline identifiers relevant in the online world
D. It’s about linking to consumer facing information, including SmartLabel
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• ALL answers are correct.
The very basics

https://id.gs1.org/gtin/09507000009060/
The importance of a common structure

(01)05000123113996(17)141100(10)PX8L(21)1BAAAA2BB3

Interchangeable *without* need for lookup on the Web.

But you can if you want to.

https://id.gs1.org/gtin/05000123113996/lot/PX8L/ser/1BAAAA2BB3?exp=141100
Looking it up...

- Different resolvers may provide different information
- Some will be better in some areas than others (with retail/healthcare as an obvious split)
- No need to sync data between them all, no need for a central repository of all data
The id.gs1.org resolver

'/gtin/5000299212936
The id.gs1.org resolver

Product description page

Recipe ideas

/gtin/5000299212936
The id.gs1.org resolver

Product description page

Recipe ideas

Related videos

/gtin/5000299212936
The id.gs1.org resolver

Product description page
Recipe ideas
Related videos
Product data
Etc.

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When companies take interest in Blockchain, what are they really interested in?

A. Solving complex business problems
B. Placing their products on an immutable digital chain
C. Data sharing
D. Keeping pace with their competitors
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• C is the most correct answer; though A and D are sometimes correct.
Blockchain may enable companies to leverage smart contracts, rapidly exchange certifications, provide supply chain transparency and visibility information and contribute to product traceability...fundamentally it’s really all about SHARING DATA

GS1 standards make it possible to exchange Master Data, Transactional Data and Physical Event Data

GS1 standards enable the efficient sharing of information from trusted and authentic sources
“Farm to Fork” and “Farm to Table” is about?

A. Bringing upstream suppliers into the supply chain
B. Bringing the farm to your house
C. Transparency about the foods we buy and consume
D. Creating a more fair and ethical supply chain for food
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C. Transparency about the foods we buy and consume
D. Creating a more fair and ethical supply chain for food

• C is the most correct answer; A and D are benefits of Farm to Fork initiatives.
Farm to Fork initiatives can bring benefit beyond transparency about the foods we purchase and consume.
$ Trillions of economic impact is predicted to be enabled by IoT. Yet what percentage of data is not being used today?

A. 50%
B. 75%
C. 90%
D. 99%
$ Trillions of economic impact is predicted to be enabled by IoT. Yet what percentage of data is not being used today?

A. 50%
B. 75%
C. 90%
D. 99%

• D is the correct answer – less than 1% of data is being used effectively today.
Exponentiation of Data: Big Challenges for IoT

• How do we create value and ROI from the right data to benefit, brands, retailers, healthcare providers, patients, and consumers?

• Will lack of interoperability prevent growth in IoT?

• Who accesses, owns, and controls all that data?

• Don’t forget about DATA QUALITY!!!
“Putting it all together” – key takeaways

• There’s too much going on for one person to deal with
• We have to split it up into (just about) manageable chunks
• Actually, it’s all one big effort
GS1 standards benefits and value

Trust

Physical/Digital Identification & Interoperability

Transparency & Visibility
Thank you!!! Your feedback is important to us!

For every session you attend, be sure to complete the short survey in the Event App to let us know how we did

1. On the menu, click Programme, find the session
2. Click to open the session
3. Click to complete the survey