GSMP TDS/TDT 2.0 Mission Specific Working Group (MSWG) WR – 21-319

Milestone deliverables

1. Project approved
April 26, 2021
- Seated group

2. Requirements
Dec 2021
- Com Review & eBallot

3. Development
June 2022
- Com Review & eBallot
- IP review
- Ratification

4. Collateral
Publication June 2022
- GS1 website

Completed last 30 days
- BRAD was approved in eBallot
- Team has been working on the technical assumptions in order to understand what to update in the 2.0 standard

Next steps
- Work to finalise the technical assumptions
- Begin solution document

Risks and Issues
- Potential IP claim by solution provider
- Working with GS1 Legal on how to address

Project Description
TDS/TDT 2.0 MSWG and EPC UHF Gen2 v3 MSWG will work in parallel to develop technical revisions to modernise GS1's EPC "suite" of standards, with focus on increased native interoperability and ease of use.

Deliverable/Objective
The TDS/TDS 2.0 MSWG will produce the following deliverables:
1. Tag Data Standard (TDS) 2.0
2. Tag Data Translation (TDT) standard 2.0
Additionally, the following deployment materials will be created within GS1 to accompany the publication of TDS 2.0 and TDT 2.0:
- Re-launch of the EPC TDS/TDT landing page (currently separate TDS & TDT pages) at gs1.org
- High-level, 2-page "talking points" flyer for the MO and business communities
- High-level, 4-page overview for the RFID solution provider community

Company participation

	Actual roster	Required roster	Minimum votes
Industry Users	7	2	2
MOs	16	4	2
Solution Providers	14	2	2

Stakeholders

OGSM	Yes
Sponsor	Robert Beideman
SDL	Greg Rowe
CE/Sol Liaison	Tim Marsh, Steven Keddie
SME	Craig Alan Repec
AG Liaison	Mark Harrison
Chairs	Jeanne Duckett – Avery Dennison Mark Harrison – Milecastle Media Limited

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Legend

| G | On schedule | Y | Minor Risk/~10% behind schedule | R | Significant risk/10%+ behind schedule | C | Complete |

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The current complexity of Electronic Product Code (EPC) encodings and EPC/RFID data capture procedures is increasingly leading new EPC/RFID users across all sectors to turn to non-standardised encodings. This complexity and the growing development of proprietary systems limit both interoperability and scalability of deployed solutions, raise substantial hurdles to traceability and end-to-end visibility, and make users susceptible to vendor lock-in, all of which increases cost and friction.

The TDS/TDT 2.0 MSWG prioritised scope comprises the simplification of EPC binary encodings in TDS and TDT, at high level:

- One new binary EPC scheme (and corresponding encoding/decoding algorithms) will be created for each of the existing (TDS 1.13) EPC schemes that are based on GS1 identifiers;

- Each new EPC scheme will be assigned a new EPC header value; all existing (TDS 1.13) EPC schemes remain valid and retain their existing EPC header values.

- "EPC + AIDC data" support will be provided for encoding of AI-based "AIDC data" in EPC/UII memory, appended following the EPC

Project deliverables status (completed documents are hyperlinked)			
Standards	Publication Date	Collateral	Publication Date

• EPC Tag Data Standard (TDS) 2.0
• EPC Tag Data Translation (TDT) standard 2.0
	Q2 2022	• Current plans include:
		   • Social media announcement
		   • Re-launch of the TDS/TDT landing page
		   • Publish a brief "quick start" (<4 page) guide to TDS 2.0-compliat encoding
		   • Update "Ken's Tools" in support of TDS/TDT 2.0:
		     • AIDC Translator Library
		     • RFIDcoder
		     • EPC Encoder/Decoder suite
			June 2022

Legend							
G	On schedule	**Y**	Minor Risk/~10% behind schedule	**R**	Significant risk/10%+ behind schedule	**C**	Complete