# Digital Signatures Mission-Specific Working Group (MSWG) WR - 20-078

## Milestone deliverables

**1. Steering**
Project approved
Mar 2020

- Seated group

**2. Requirements**
Nov 2020

- Community Review and eBallot

**3. Development**
Draft standard  Q4 2021

- Community Review and eBallot
- IP review
- Ratification

**4. Collateral Development** Publications

- GS1 website

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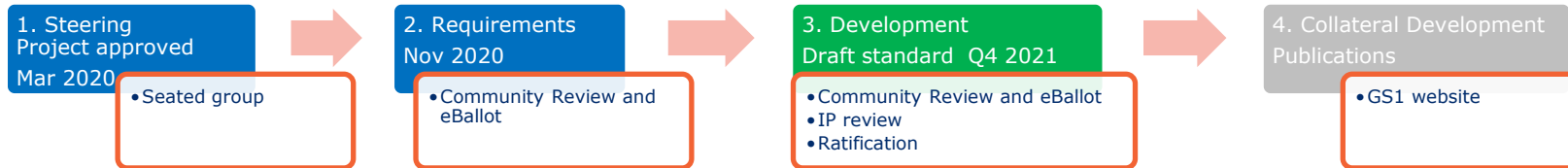
### Completed last 30 days
- Ratified Deliverable #1 Web Vocabulary and #2 Link Type WR 21-240
- Motioned business case deliverable #3 WR 21-307: AI for ISO/IEC 20248
- Initial discussion on DigSig Guideline

### Next steps
- Process deliverable #3 WR21-307: Application Identifiers ISO/IEC 20248
- Develop DigSig Implementation Guideline
- Assess different approaches of digital signature

### Risks and Issues
None

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### Project description
Provide a GS1 standard solution approach to digital signatures. Otherwise, there will be no open, brand owner determined digital signatures to set as an alternative to proprietary digital signature use in barcodes with GS1 standards.

### Deliverable/Objective
- Open Standard Solution
- Implementation Guideline

### Company participation

| Total | Actual roster | Required roster | Minimum votes |
|---|---|---|---|
| Manufacturer | 9 | 1 | 2 |
| Retailer | 2 | 1 | |
| MO's | 26 | 5 | 2 |
| Solution Providers | 19 | 2 | 2 |
| Other | 7 | | |
| Total | 63 | | 12 |

### Stakeholders

| | |
|---|---|
| Sponsor | Robert BEIDEMAN (GS1 GO) (not an OGSM) |
| SDL | J. John RYU (GS1 GO) |
| CE/Sol Liaison | Stephanie VAN ROSSUM (GS1 GO) |
| SME | Neil PIPER, Mark HARRISON, Nadi GRAY (GS1 GO) |
| AG Liaison | Kevin DEAN (GS1 Canada) |
| Chairs | Denis O'BRIEN (GS1 Ireland) Bertus PRETORIUS (Tönnjes) |

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**Legend**

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

# Digital Signatures Mission-Specific Working Group (MSWG) WR - 20-078

- **Counterfeiting is a growing problem** damaging the global economy: $500 Billion of counterfeit goods being trade internationally

- **Increase of regulations on national and regional level**: Various approaches and different emerging solutions are being proposed to combat counterfeiting, diversion and illicit trade. Divergent approaches and solutions pose a risk of adding complexity and cost to the supply chain and they also conflict with GS1 standards and standards-based implementations

- **A common approach to digital signatures for traceability and anticounterfeit business applications is needed** to set a path for future development that is in harmony with the GS1 system.

## Project deliverables status
### (completed documents are hyperlinked)

| Standards | Publication Date | Collateral | Publication Date |
|---|---|---|---|
| • Open Standard Solution<br>- Deliverable 1 WR 21-240: GS1 Web Vocabulary gs1:AuthenticationDetails<br>- Deliverable 2 WR 21-240 Extra Link Type for JSON Web Signature WR 21-240<br>- Deliverable 3 WR 21-307: Application Identifiers for ISO/IEC 20248 data structure<br>• Deliverable #4 Implementation Guideline | 4th Quarter 2021<br><br><br>4th Quarter 2021<br><br>1st Quarter 2022<br><br>TBD / 3rd Quarter 2022 | • Edited Digital Signature Demo Video<br>• Demonstration Tool recording<br>• Edited Global Forum Digital Signature session recording for education and awareness | • October 2021<br>• July 2021<br>• May 2021 |

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