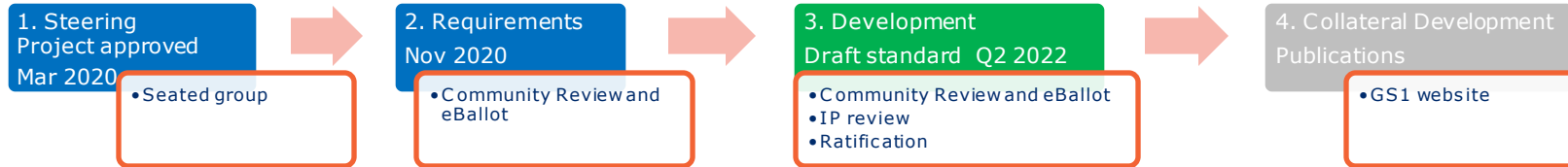


# Digital Signatures Mission-Specific Working Group (MSWG) WR - 20-078

Update for

11 January 2022

## Milestone deliverables – WR 21-307 Deliverable #3



<p><b>Completed last 30 days</b></p> <ul style="list-style-type: none"> <li>Ratified Deliverable #1 Web Vocabulary and Deliverable #2 Link Type WR 21-240</li> <li>Motioned business case deliverable #3 WR 21-307: AI for ISO/IEC 20248</li> </ul>	<p><b>Next steps</b></p> <ul style="list-style-type: none"> <li>Core Team to share comparison document</li> <li>Process deliverable #3 WR21-307: Application Identifiers ISO/IEC 20248</li> <li>Develop DigSig Implementation Guideline</li> </ul>	<p><b>Risks and Issues</b></p> <ul style="list-style-type: none"> <li>There is a need to understand the different mechanism to digital signature.</li> <li>Core team is developing a comparison document on the capabilities provided by different technology. (JSON Web Signature, Verifiable Credentials, ISO/IEC 20248)</li> </ul>																																							
<p><b>Project description</b></p> <p>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.</p> <p><b>Deliverable/Objective</b></p> <ul style="list-style-type: none"> <li>Open Standard Solution</li> <li>Implementation Guideline</li> </ul>	<p><b>Company participation</b></p> <table border="1"> <thead> <tr> <th>Total</th> <th>Actual roster</th> <th>Required roster</th> <th>Minimum votes</th> </tr> </thead> <tbody> <tr> <td>Manufacturer</td> <td>9</td> <td>1</td> <td rowspan="2">2</td> </tr> <tr> <td>Retailer</td> <td>2</td> <td>1</td> </tr> <tr> <td>MO's</td> <td>26</td> <td>5</td> <td>2</td> </tr> <tr> <td>Solution Providers</td> <td>19</td> <td>2</td> <td>2</td> </tr> <tr> <td>Other</td> <td>7</td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td>63</td> <td></td> <td>12</td> </tr> </tbody> </table>	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	<p><b>Stakeholders</b></p> <table border="1"> <tbody> <tr> <td>Sponsor</td> <td>Robert BEIDEMAN (GS1 GO) (not an OGS1M)</td> </tr> <tr> <td>SDL</td> <td>J. John RYU (GS1 GO)</td> </tr> <tr> <td>CE/Sol Liaison</td> <td>Stephanie VAN ROSSUM (GS1 GO)</td> </tr> <tr> <td>SME</td> <td>Neil PIPER, Mark HARRISON, Nadi GRAY (GS1 GO)</td> </tr> <tr> <td>AG Liaison</td> <td>Kevin DEAN (GS1 Canada)</td> </tr> <tr> <td>Chairs</td> <td>Denis O'BRIEN (GS1 Ireland) Bertus PRETORIUS (Tönjes)</td> </tr> </tbody> </table>	Sponsor	Robert BEIDEMAN (GS1 GO) (not an OGS1M)	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 (Tönjes)
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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

## What business challenges are being solved

- **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
<ul style="list-style-type: none"> <li>• Open Standard Solution</li> <li>- Deliverable 1 WR 21-240: GS1 Web Vocabulary <a href="#">gs1:AuthenticationDetails</a></li> <li>- Deliverable 2 WR 21-240 Extra Link Type for JSON Web Signature WR 21-240</li> <li>- Deliverable 3 WR 21-307: Application Identifiers for ISO/IEC 20248 data structure</li> <li>• Deliverable 4 WR 21-TBD Implementation Guideline</li> </ul>	<p>4<sup>th</sup> Quarter 2021</p> <p>4<sup>th</sup> Quarter 2021</p> <p>1<sup>st</sup> Quarter 2022</p> <p>TBD / 3<sup>rd</sup> Quarter 2022</p>	<ul style="list-style-type: none"> <li>• Edited Digital Signature Demo Video</li> <li>• Demonstration Tool recording</li> <li>• Edited Global Forum Digital Signature session recording for education and awareness</li> </ul>	<ul style="list-style-type: none"> <li>• October 2021</li> <li>• July 2021</li> <li>• May 2021</li> </ul>



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