

GS1: who we are

- **GS1** is a neutral, not-for-profit standards organisation that helps companies do business across the world:
 - A federation of **116** GS1 Member Organisations
 - Developing standards to support over **2 million companies** worldwide
 - **25** industries served across **150** countries
 - Over **2 billion** products carry the **GS1 barcode**
 - Barcodes scanned more than **10 billion** times a day globally

Source: <https://www.gs1.org/docs/gs1-strategy-booklet-2023.pdf>



Linking physical and digital worlds

Digitalisation of trade processes is a key evolution in order to support improvements in sustainability, circularity and efficiency.

The link between physical and digital worlds is a key factor for these goals and can be achieved by providing a standardised approach for:

- Identify
- Capture
- Share

The data sharing domain

- In the data sharing domain, GS1 provides standards to the industries and communities that we serve for:
 - Master data alignment
 - Transactional and operational data sharing
 - Event data sharing
- In this domain, the collaboration with UN/CEFACT has been strategically important because it has allowed both organizations to further our common objectives of harmonization and interoperability

EANCOM: the first chapter of a collaboration

- In June of 1989, the first release of EANCOM was published.
- The decision was to leverage an existing global standard, UN/EDIFACT, to implement a subset applicable to the GS1 community
- The main messages implemented are:
 - Master data: PARTIN and PRICAT
 - Order to cash: ORDER, ORDRSP, DESADV, INVOIC...
 - Other processes
- In total, EANCOM includes 46 different messages and more than 130.000 identified users



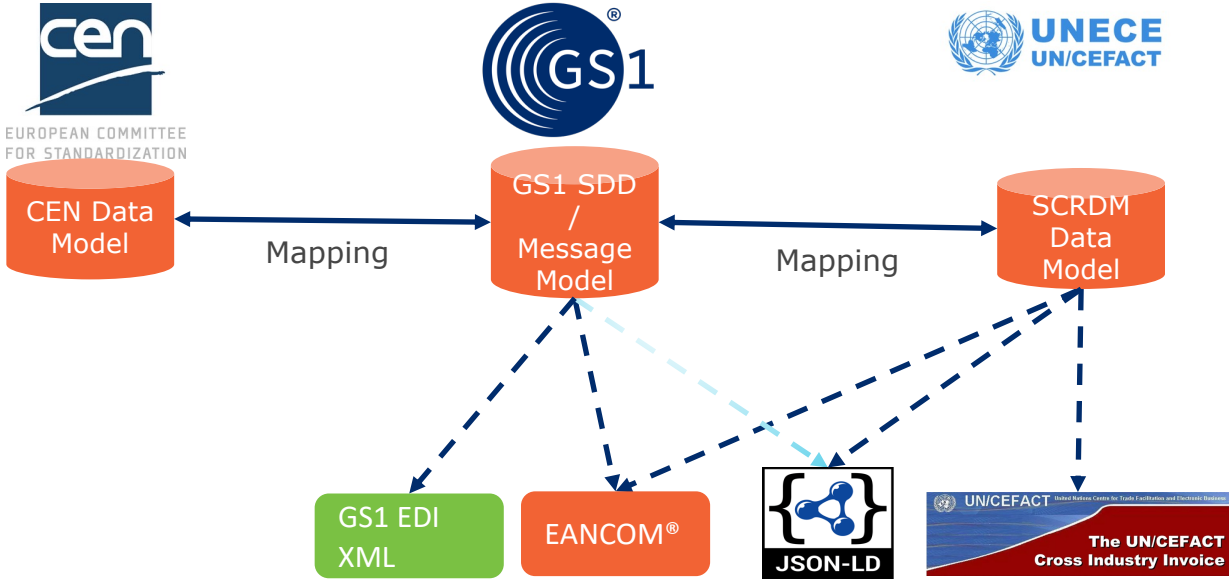
UN/CEFACT CI profiles and Code Lists

- GS1 has released specific profiles based on UN/CEFACT Cross Industry messages
 - The profiles cover the Order-to-Cash process and were specifically intended to cover public sector exchanges
- UN/CEFACT and UNECE code lists play an important role
 - Recommendations 20 and 21 are referenced in many GS1 standards, including GS1 XML, EPCIS, GDSN

Scenario for future collaborations

- The focus is progressively shifting from syntaxes to semantic data models / ontologies
 - Business oriented definitions
 - Syntax neutral modelling
- The complexity of the market makes unlikely a scenario of a «single data model ruling them all»
 - Different industry business requirements
 - Regulators interventions at different levels, from local to global
 - Technology evolution
- The main goal is to be interoperable, being flexible in moving from one technology to another with limited effort

Semantic interoperability



Areas of collaboration development

- GS1 Semantic Data Model mapped to UN/CEFACT SCRDM
- Future potential area of collaboration:
 - subset of UN/CEFACT JSON schemas, based on SCRDM export
 - Interoperability with UN/CEFACT schema.org vocabulary for Linked Data support