GS1 collaborates with other standards development organizations to deliver global interoperable standards

GS1: championing global standards harmonisation

GS1 is committed to the harmonisation and alignment of our standards with those developed by leading standards development organisations (SDOs) worldwide. Through active collaboration with influential bodies—including ISO, IEC, UN/CEFACT (United Nations Centre for Trade Facilitation and Electronic Business), the World Customs Organisation (WCO), the U.S. Food and Drug Administration (FDA), the World Wide Web Consortium (W3C), and many more—GS1 ensures that our standards are interoperable, trusted, and globally recognised.

Strategic partnerships for global impact
Our partnerships are guided by a shared vision: to deliver open, consensus-based standards that address the real-world needs of members, regulators, governments, and industries. These alliances enable GS1 to respond to emerging challenges, support compliance, and foster innovation across supply chains.

Alignment with GS1's future strategy
As we look toward the future, our focus is to strengthen the digital relevance of GS1 by enabling **trusted identification**, **connecting identity to data** and enhancing **data sharing** to support the evolving needs of industries worldwide. GS1 standards are now foundational across a diverse array of sectors—including healthcare, retail, marketplaces, logistics, food and agriculture, technical industries, apparel, and beyond.
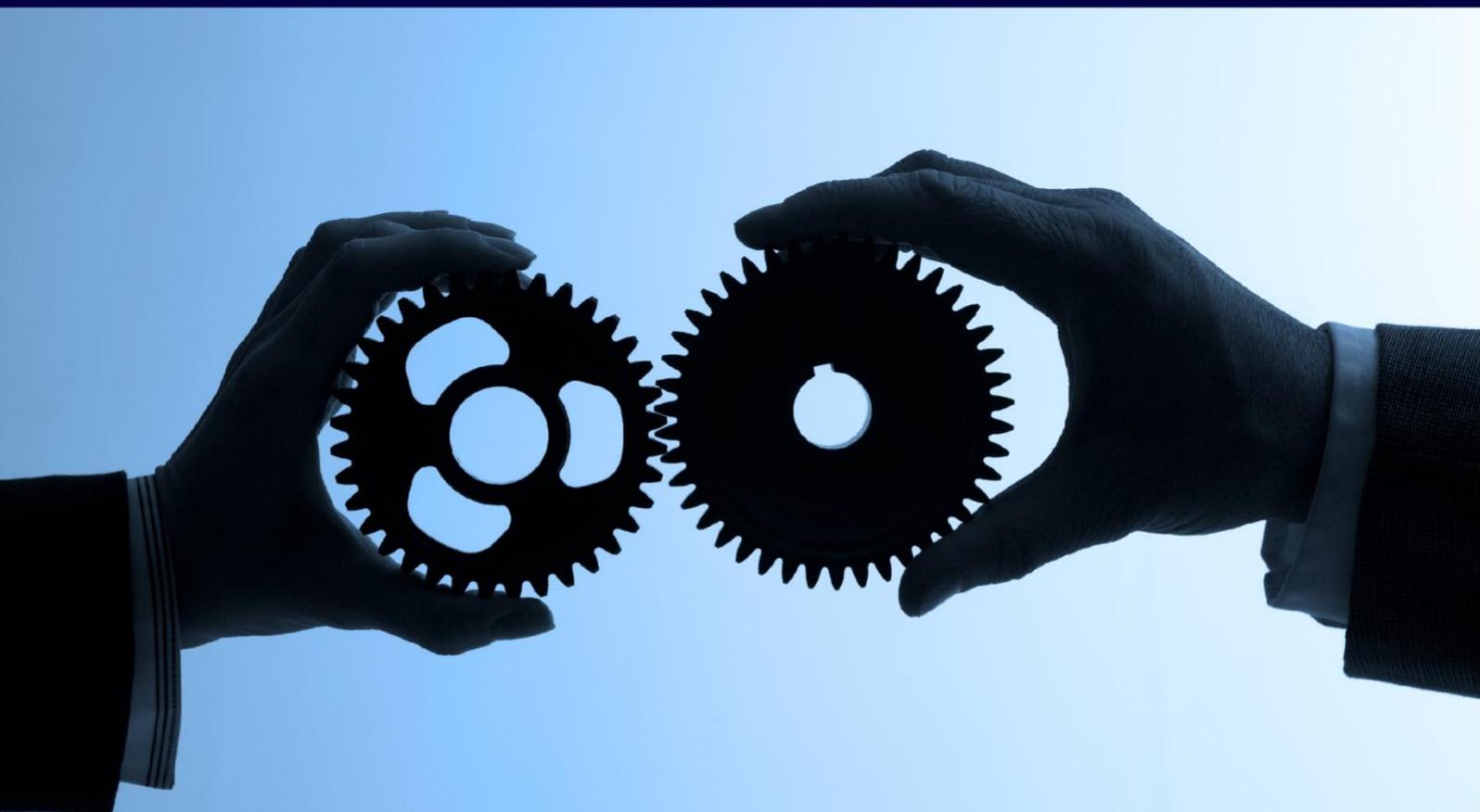
Our standards underpin critical initiatives such as product authentication, traceability, sustainability, digital commerce, and anti-counterfeiting, helping organisations build trust and transparency with consumers, regulators, and partners.

A strong and enduring relationship with ISO/IEC
Central to our harmonisation efforts is our enduring relationship with ISO (International Organization for Standardization), IEC (International Electrotechnical Commission) and ISO/IEC Joint Technical Committee. For more than twenty years, GS1 has worked closely with ISO/IEC, sharing values of neutrality, transparency, and market relevance. GS1 experts play active roles in ISO/IEC standards committees, often serving as chairs or secretariats, to ensure our standards are integrated and aligned with global best practices.
This collaboration is increasingly vital as regulations and laws often reference ISO/IEC standards. Embedding GS1 standards within these frameworks ensures global recognition and compliance, benefiting our members and partners by providing the assurance of international acceptance.

Through strategic alliances and a forward-looking approach, GS1 empowers organisations to operate efficiently, transparently, and securely in a rapidly evolving global marketplace. Our harmonised standards and global strategy ensure that GS1 continues to meet the needs of business, government, and society—now and into the future.

GS1 standards[1] compliant with ISO and other external standards

GS1 component or standard	Compliant with	Identify	Capture	Share
GTIN (Global Trade Item Number)	ISO/IEC 15459[2]	X		
SGTIN (Serialised Global Trade Item Number)	ISO/IEC 15459[2]	X		
GLN (Global Location Number)	ISO/IEC 15459[2]	X		
GLN-Party (Global Location Number for a party)	ISO/IEC 6523[3] and ISO/IEC 15459[2]	X		
SSCC (Serial Shipping Container Code)	ISO/IEC 15459[2]	X		
GIAI (Global Individual Asset Identifier)	ISO/IEC 15459[2]	X		
GRAI (Global Returnable Asset Identifier)	ISO/IEC 15459[2]	X		
GSRN (Global Service Relationship Number)	ISO/IEC 15459[2]	X		
GDTI (Global Document Type Identifier)	ISO/IEC 15459[2]	X		
GINC (Global Identification Number for Consignments)	ISO/IEC 15459[2]	X		
GSIN (Global Shipment Identification Number)	ISO/IEC 15459[2]	X		
GCN (Global Coupon Number)	ISO/IEC 15459[2]	X		
GMN (Global Model Number)	ISO/IEC 15459[2]	X		
GS1 Application Identifiers	ISO/IEC 15418	X		
Character set for AIDC encoding	ISO/IEC 646[4] (subset of)	X		
GS1 Digital Link URI syntax	ISO/IEC 18975 (web-enabled, structured path method)		X	
EANCOM syntax	ISO 9735			X
EANCOM content	UN/EDIFACT (subset of)			X
GS1 XML syntax	W3C XML			X
GS1 XML content	W3C XML			X
GS1 Web Vocabulary	W3C Schema.org and JSON-LD			X
Symbology identifiers	ISO/IEC 15424		X	
EAN/UPC symbology	ISO/IEC 15420		X	
ITF-14 symbology	ISO/IEC 16390		X	
GS1-128 symbology	ISO/IEC 15417		X	
GS1 DataBar symbology	ISO/IEC 24724		X	
GS1 Composite symbology	ISO/IEC 24723		X	
GS1 DataMatrix symbology	ISO/IEC 16022		X	
Data Matrix (GS1 Digital Link URI)	ISO/IEC 16022		X	
GS1 QR Code symbology	ISO/IEC 18004		X	
QR Code (GS1 Digital Link URI)	ISO/IEC 18004		X	
GS1 DotCode symbology	ISS DotCode Symbology Specification 4.0		X	
Global Product Classification (GPC)	ISO 22274			X
EPC UHF Gen2 Air Interface Protocol[5]	ISO/IEC 18000-63		X	
EPC Class-1 HF RFID Air Interface Protocol[5]	ISO/IEC 18000-3 mode 3		X	
Low-level Reader Protocol (LLRP)[5]	ISO/IEC 24791-5		X	
Application Level Events (ALE)[5]	ISO/IEC 24791-2		X	
Reader Management (RM)[5]	ISO/IEC 24791-3		X	
Discovery, Configuration, and Initialization (DCI)[5]	ISO/IEC 24791-3		X	
EPCIS[5]	ISO/IEC 19987			X
Core Business Vocabulary (CBV)[5]	ISO/IEC 19988			X

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[1] GS1 standards are available at: https://ref.gs1.org
[2] ISO/IEC 15459 is an international standard with several parts that defines a globally unique identification system used within automatic identification and data capture technology for trade items, logistics units, and entities across supply chains.
[3] ISO/IEC 6523 defines a structure for uniquely identifying organisations and identification schemes managed by those organisations.
[4] GS1 standards leverage three subsets (consisting of 82, 64, or 39 characters) of ISO/IEC 646.
[5] GS1 standard included in its entirety in ISO or other external standards

GS1, the global language of business

GS1 standards create a common foundation for business by uniquely identifying, accurately capturing and automatically sharing vital information about products, locations and assets.

We enable visibility through the exchange of authentic data.

We empower business to grow and to improve efficiency, safety, security and sustainability.

Five decades of transforming business

Since its creation more than 50 years ago, our federation has welcomed new GS1 Member Organisations in more than 100 countries.

Today, we work with more than a million companies and organisations of all types and every size in retail, consumer packaged goods, apparel, fresh foods, foodservice, healthcare, transport & logistics, humanitarian initiatives, non-profits, technical industries, marketplaces and more.

GS1 Global Office

Avenue Louise, 523
Brussels B-1050, Belgium
T: +32 2 788 78 00
E: helpdesk@gs1.org

www.gs1.org