The Global Language of Business

GS1 & ISO
Partnering for Standards

GS1 and ISO, a long and active collaboration

We are proud of our long and active working relationship with ISO, the International Organization for Standardization. Independent and non-governmental, ISO has a membership of 163 national standards bodies.

GS1 and ISO share the same values and the same beliefs in the vital importance of neutral, voluntary, consensus-based, market-relevant global standards.

Our two organisations have had a strong and constructive relationship for more than 20 years. A number of GS1 team members participate actively in ISO standard development committees, or even serve as their Chair or secretariat.

An increasingly important collaboration

GS1 standards are now present in highly regulated sectors such as healthcare, fresh foods and foodservice. They are being used as the foundation for traceability or anti-counterfeiting services. In this context, our collaborative work with ISO is more important than ever before.

Indeed, governmental regulations and laws often refer only to ISO standards, so having normative references to GS1 in ISO standards is very useful.

In addition GS1 enjoys strong working partnerships and alliances with a variety of trade associations, governmental organisations and standards bodies, including 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 W3C (World Wide Web Consortium) and many more.

Working with GS1 standards means working with ISO-compliant standards

GS1 standards recognised by ISO and other standard bodies

GS1 component	External standard
GTIN (Global Trade Item Number)	ISO/IEC 15459-6
SGTIN (Serialised Global Trade Item Number)	ISO/IEC 15459-4
GLN (Global Location Number)	ISO/IEC 6523
SSCC (Serial Shipping Container Code)	ISO/IEC 15459-1
GIAI (Global Individual Asset Identifier)	ISO/IEC 15459-4 & 5
GRAI (Global Returnable Asset Identifier)	ISO/IEC 15459-5
GSRN (Global Service Relationship Number)	ISO/IEC 15418
GDTI (Global Document Type Identifier)	ISO/IEC 15418
GINC (Global Identification Number for Consignments)	ISO/IEC 15418
GSIN (Global Shipment Identification Number)	ISO/IEC 15459-6
GCN (Global Coupon Number)	ISO/IEC 15418
CPID (Component / Part Identifier)	ISO/IEC 15418
Application Identifiers	ISO/IEC 15418
Global Product Classification (GPC)	ISO 22274
EPC URI Syntax	IETF RFC 3986
EANCOM syntax	ISO 9735
EANCOM content	UN/CEFACT UNSMs
GS1 XML syntax	W3C XML
GS1 XML content	W3C XML
Symbology identifiers	ISO/IEC 15424
EAN/UPC	ISO/IEC 15420
ITF-14	ISO/IEC 16390
GS1-128	ISO/IEC 15417
GS1 DataBar	ISO/IEC 24724
GS1 DataMatrix	ISO/IEC 16022
GS1 Composite	ISO/IEC 24723
GS1 QR Code	ISO/IEC 18004
UHF Class 1 Gen 2	ISO/IEC 18000-63
HF Class 1 Gen 2	ISO/IEC 18000-3
EPC Tag Data Standard	ISO/IEC 15962
Low-level Reader Protocol (LLRP)	ISO/ICE 24791-5
Application Level Events (ALE)	ISO/IEC 24791-2
Reader Management (RM)	ISO/IEC 24791-3
Discovery, Configuration, and Initialization (DCI)	ISO/IEC 24791-3
EPC Information Services (EPCIS)	ISO/IEC 19987
GS1 Core Business Vocabulary (CBV)	ISO/IEC 19988

ISO application standards which refer to GS1 standards

ISO 15394	Packaging -- Bar code and two-dimensional symbols for shipping, transport and receiving labels
ISO 22742	Packaging -- Linear bar code and two-dimensional symbols for product packaging
ISO 28219	Packaging -- Labelling and direct product marking with linear bar code and two-dimensional symbols
ISO 17363	Supply chain applications of RFID -- Freight containers
ISO 17364	Supply chain applications of RFID -- Returnable transport items (RTIs) and returnable packaging items (RPIs)
ISO 17365	Supply chain applications of RFID -- Transport units
ISO 17366	Supply chain applications of RFID -- Product packaging
ISO 17367	Supply chain applications of RFID -- Product tagging
ISO/TS 16791	Health informatics — Requirements for international machine-readable coding of medicinal product package identifiers
ISO 11615	Health informatics — Identification of Medicinal Products — Data elements and structures for the unique identification and exchange of regulated Medicinal Product information
ISO/TS 18530	Health Informatics — Automatic identification and data capture marking and labelling -- Subject of care and individual provider identification
ISO 10685-1	Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification — Part 1: Product identification and electronic catalogue product hierarchy
CEN/CLC/ TR 14060	Medical device traceability enabled by unique device identification (UDI)

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.

Four decades of transforming business

Since its creation more than 40 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 and more.

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