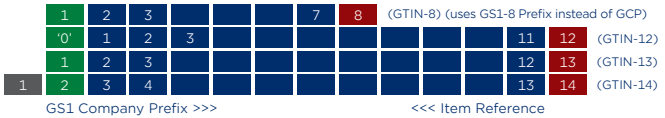
GS1 IDENTIFICATION KEYS AT YOUR FINGER TIPS

KEY	IDENTIFY	TO ADD VALUE IN
GTIN Global Trade Item Number	**Products** such as consumer goods, pharmaceuticals, medical devices, raw materials at any **packaging level** (e.g., consumer unit, inner pack, case, pallet). **Services** such as equipment rental, car rental, ... **Individual trade item instance(s)** and related usage instructions by combining the GTIN with attributes such as batch / lot number, serial number, best before date, expiry date, net weight. COMPATIBLE WITH ISO/IEC 15459 - PART 4: INDIVIDUAL PRODUCTS AND PRODUCT PACKAGES	Point-of-Sale, Point-of-Care, Production, Shipping & receiving, Inventory management, Border procedure management, Order-to-cash, B2C digital information, Customs procedures
GLN Global Location Number	Physical Locations: An organisation's geographical addresses such as Ship From, Ship To, Read Point. In combination with the GLN extension also **internal physical locations** such as storage bins, dock doors, bar code scan / read points. Parties: An organisation's legal and functional entities engaging in business transactions. RECOGNIZED IN ISO STANDARD 6523, INTERNATIONAL CODE DESIGNATOR (ICD) FOR GLN IS '0088'	Order-to-Cash, Transport management, Shipping & receiving, Inventory management
SSCC Serial Shipping Container Code	**Logistic units** such as unit loads on pallets or roll cages, and parcels. The SSCC enables the unique identification of any combination of trade items packaged together for storage and/or transport purposes. COMPATIBLE WITH ISO/IEC 15459 – PART 1: UNIQUE IDENTIFIERS FOR TRANSPORT UNITS (THE ISO LICENCE PLATE)	Order-to-Cash, Shipping & receiving, Transport management, Inventory management, Customs procedures
GSIN Global Shipment Identification Number	**Shipments,** comprised of one or more logistic units intended to be delivered together. The logistic units belonging to a particular shipment keep the same GSIN during all transport stages, from origin to final destination. MEETS THE WCO REQUIREMENTS FOR UCR (UNIQUE CONSIGNMENT REFERENCE). COMPATIBLE WITH ISO/IEC 15459 – PART 8: GROUPING OF TRANSPORT UNITS.	Order-to-Cash, Transport Management, Inventory Management, Customs procedures
GINC Global Identification Number for Consignment	**Consignments** comprised of one or more logistic units (potentially belonging to different shipments) intended to be transported together for part of their journey. Logistic units may be associated with different GINCs by carriers or freight forwarders during subsequent transport stages.	Transport Management
GRAI Global Returnable Asset Identifier	Mostly used to identify **Returnable Transport Items (RTI)** such as pallets, roll containers, crates. The GRAI identifies the **type** of **returnable asset**, and if needed also the **individual instances** of the returnable asset via the optional serial number.	Asset management, Transport management, Shipping & receiving
GIAI Global Individual Asset Identifier	**Fixed assets** such as office equipment, transport equipment, IT equipment, vehicles. The GIAI identifies **individual asset instances** regardless of the type of asset.	Transport management, Inventory management, Asset management
GSRN Global Service Relation Number	**Service provider relationships** of an organisation and the provider of the service, such as the doctors employed by a hospital. **Service recipient relationships** of an organisation offering a service and the recipient of the service such as the loyalty account of a customer with a retailer, the registration of a patient at a hospital, the account of a customer with an electricity company. In combination with the Service Relation Instance Number (SRIN) it can identify service encounters, such as the phases of a medical treatment.	Point-of-Care, Consumption reporting, Invoicing
GDTI Global Document Type Identifier	**Physical documents** such as certificates, invoices, driving licenses. **Electronic documents** such as digital images, EDI messages. The GDTI identifies the **type of the document**, and if needed also the **individual document instances** via the optional serial number.	Document tracking, Archiving, Document authentication
GCN Global Coupon Number	**Digital Coupons.** The GCN identifies the **coupon offer**, and if needed the **individually issued coupons** via the optional serial component.	Coupon Management (distribution, validation, redemption, settlement)
CPID Component / Part Identifier	**Components and parts** such as drive motor for washing machine, fan assembly for a jet engine, starter motor for vehicle, wheel axle. **Individual components or parts**, by combining CPID with a serial number. THE CPID IDENTIFIER SHALL NOT BE USED IN OPEN SUPPLY CHAINS. IT IS RESTRICTED TO USE BY MUTUAL AGREEMENT.	Component / part production, procurement, and after sales processes

GTIN



EAN-8
UPC-A, UPC-E
EAN-13
ITF-14 , GS1-128, GS1 DataBar, GS1 DataMatrix, GS1 QR Code (*)
(*) these symbols support all GTIN formats by adding leading zeroes where needed

EPC: urn:epc:id:sgtin:CompanyPrefix.ItemReference.SerialNumber
GS1 XML: string \d{14}
EANCOM: n..14; DE7140(DE7143=SRV)

AI (01) GTIN, AI (02) CONTENT, AI (8006) GCTIN - attributes (e.g): AI (10) BATCH/LOT, AI (21) SERIAL, AI (17) USE BY OR EXPIRY, AI (37) COUNT

GLN

GS1-128

e.g. AI (410) SHIP TO LOC, AI (411) BILL TO attribute: AI (254) GLN EXTENSION COMPONENT

EPC: urn:epc:id:sgln:CompanyPrefix.LocationReference.Extension
GS1 XML: string \d{13}
EANCOM: n13; DE3039(DE3055=9)

SSCC

GS1-128

AI (00) SSCC - attributes (e.g.): AI (330n) GROSS WEIGHT (kg), AI (335n) VOLUME (l), AI (340n) GROSS WEIGHT (lb), AI (363n) VOLUME (g)

EPC: urn:epc:id:sscc:CompanyPrefix.SerialReference
GS1 XML: string \d{18}
EANCOM: an..35; DE7402(DE7405=BJ)

GSIN

GS1-128

AI(402) GSIN

EPC: user memory
GS1 XML: string \d{17}
EANCOM: an..70; DE1154(DE1153=SRN)

GINC

GS1-128

AI (403) GINC

EPC: user memory
GS1 XML: string [-!»%&'()*+,./0-9:;<=>?A-Z_a-z]{4,30}
EANCOM: an..70; DE1154(DE1153=CU)

GRAI

GS1-128, GS1 DataMatrix

AI (8003) GRAI

EPC: urn:epc:id:grai:CompanyPrefix.AssetType.SerialNumber
GS1 XML: string \d{14}[-!»%&'()*+,./0-9:;<=>?A-Z_a-z]{0,16}
EANCOM: an..35; DE7140(DE7143=SUE) or DE7402(DE7405=RAG)

GIAI

GS1-128, GS1 DataMatrix

AI (8004) GIAI

EPC: urn:epc:id:giai:CompanyPrefix.IndividualAssetReference
GS1 XML: string [-!»%&'()*+,./0-9:;<=>?A-Z_a-z]{4,30}
EANCOM: an..35; DE7402(DE7405=CU)

GSRN

GS1-128, GS1 DataMatrix

AI (8017): GSRN PROVIDER, AI (8018): GSRN RECIPIENT attribute: AI (8019) SRIN

EPC: urn:epc:id:gsrn:CompanyPrefix.ServiceReference
GS1 XML: string \d{18}
EANCOM: an..70; DE1154(DE1153=SNR)

GDTI

GS1-128, GS1 DataMatrix

AI(253) GDTI

EPC: urn:epc:id:gdti:CompanyPrefix.DocumentType.SerialNumber
GS1 XML: string [-!»%&'()*+,./0-9:;<=>?A-Z_a-z]{13,30}
EANCOM: an..35; DE1004

GCN

GS1 DataBar

AI(255) GCN

EPC: coming soon
GS1 XML: not defined
EANCOM: not defined

CPID

GS1-128, GS1 DataMatrix

AI(8010) CPID - attribute: AI(8011) CPID SERIAL

EPC: urn:epc:id:cpi:CompanyPrefix.ComponentPartReference.Serial
GS1 XML: not defined
EANCOM: not defined

Check Digit
Numeric
Alphanumeric
Start of GS1 Company Prefix
Filler digit
Extension Digit / Indicator Digit

<<< variable start position
>>> variable length
<= less than or equal to
n = variable position number

Available bar codes, see GS1 General Specifications for application rules.

available application identifiers

syntax formats