



Today's companies generate considerable amounts of data – from production and logistics events to IoT sensor technology and regulatory information. This data is often stored in heterogeneous, organically developed architectures, based on different ontologies, and is often difficult to locate.

At the same time, the environment is changing: the EU Data Act, increasing IoT usage, international supply chains and requirements for transparency and sustainability demand reliable, standardised and efficient data exchange.

GS1 Discovery Service

Find and Exchange Data

The GS1 Discovery Service is an API-based, not-for-profit SaaS platform that registers, makes discoverable and provides standardised events relating to physical objects uniquely identified by GS1 keys.

It combines the strengths of two worlds: data platforms and modern data space principles – based on GS1 standards, open web vocabularies and the EPCIS data model.

What is the GS1 Discovery Service?

The GS1 Discovery Service is a scalable, interoperable and globally connectable data exchange system. It offers:

- **Registry:** Registration of each event with source, GS1 identification key, time stamp and access rights.
- **Discovery:** The Discovery Layer provides a standardised and comprehensive overview of the events you are looking for via a single API.
- **Normalization:** The Normalization Layer automatically translates incoming events into a JSON-LD schema.
- **Exchange:** Finally, the GS1 Discovery Service transmits all events found in its buffer to the data recipient via API.

Benefits of the GS1 Discovery Service



No repository
adaptation required



Fast, reliable
queries



Modular
architecture



API-centric
scalability

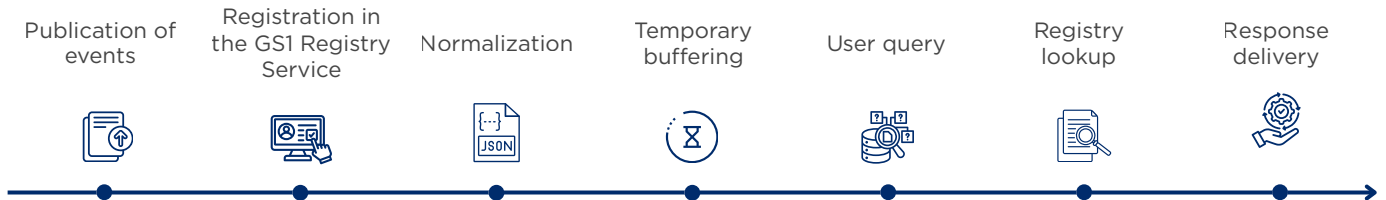


Not-for-profit
model



Established web
vocabularies

How the GS1 Discovery Service works



The data sender first provides an event in the GS1 Discovery Service, which is then registered in the GS1 Registry Service. Incoming information is automatically normalised in the EPCIS data model and temporarily cached to ensure fast and stable response times. Data recipients can use the API to search specifically for available events. If certain information is restricted, a corresponding authorisation request is sent to the owner via the Discovery Service. Once all access rights have been granted, the platform delivers complete, consolidated and standardised results.

4 steps to the GS1 Discovery Service

1. Sign up for the GS1 Discovery Service.
2. Connect to the API.
3. Request access rights as needed.
4. Start the data query.

Why GS1?

GS1 is a globally neutral, non-profit organisation that has been providing standards for identification, data quality and interoperable data exchange for more than 50 years. The GS1 Discovery Service combines these standards with modern web technology to create a trustworthy, globally connectable data infrastructure for businesses and public authorities.

Contact and further information



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