



The Global Language of Business

GS1 Sweden Directory 4.0 - API Reference Guide

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1 Introduction

The GS1 Sweden Directory 4 API (Application Programming Interface) allows client applications to manage locations in GS1 Sweden Directory.

2 Audience

This document is intended for programmers who want to write client applications that can create new locations, edit and delete existing locations in GS1 Sweden Directory.

3 Environments

All methods that the service provides requires authentication. WS-Security UsernameToken is used for authentication with password type PasswordText.

To access the GS1 Sweden Directory API you need to have a valid subscription to a GS1 Company Prefix assigned by GS1 Sweden (starts with 73).

You also need a service account to access the web service methods.

3.1 WSDL

The WSDL (Web Services Description Language) is located at the following address:
<https://directory.gs1.se/GlnApi/GlnService.svc/mex>

3.2 Test environment

The test environment can be used to test your client. We recommend mocking the service during development and use this environment for your integration tests.

The test environment is located at the following address:
<https://gs1directory4preprod.azurewebsites.net/GlnApi/GlnService.svc>

3.3 Production environment

The production environment is located at the following address:
<https://directory.gs1.se/GlnApi/GlnService.svc>

4 Operations

This section describes the different method that the API supplies.

4.1 PublishGLN

This method publishes a new location to the directory.

4.1.1 Parameters

Name	Description
Party	A Party object (see 5.1) containing information about the GLN to publish.

4.2 UpdateGLN

This method updates information about an existing location in the directory.

4.2.1 Parameters

Name	Description
Party	A Party object (see 5.1) containing information about the GLN to update.

4.3 UnpublishGLN

This method unpublishes an existing and published location in the directory.

4.3.1 Parameters

Name	Description
GLN	A string containing GLN of the Party to unpublish

4.4 SearchGLN

This method searches information about an existing location in the directory.

4.4.1 Parameters

Name	Description
GLN	A string containing GLN of the Party to unpublish

5 Types

This section describes common types used by the web service.

5.1 Party

The Party type represents information about a GLN in GS1 Sweden Directory 4.

Field	Description	Cardinality	Format	Comment
Gln	Global location number for party	Mandatory	An alphanumeric string including exactly 13 digits.	The GLN must be based on your assigned company prefix (GCP). The length includes the check digit. See https://www.gs1.org/gln for more information.
PartyName	Name of the party	Mandatory	An alphanumeric string including up to 80 characters.	
StreetAddress	A list of street addresses to the location.	Optional	A list of an alphanumeric strings that are including up to 200 characters each.	Up to three address lines can be specified

Field	Description	Cardinality	Format	Comment
POBoxNumber	Number that identifies a PO box	Optional	An alphanumeric string including up to 80 characters.	
PostalCode	Zip or postal code for the address	Optional	An alphanumeric string including up to 80 characters.	
City	Name of the city.	Mandatory	An alphanumeric string including up to 200 characters.	
CountryCode	Country ISO Alpha-2 code that represents the country where the location is located	Mandatory		If used it is the ISO 3166-1 alpha-2 code of the country. Example: SE
GeographicalCoordinates	Geographical position of the location.	Optional, zero or one	GeographicalCoordinates field (see 6.2).	
ExtraInformation	Additional free text information associated with the given location	Optional	An alphanumeric string including up to 512 characters.	Example: Konferensrum
AdditionalPartyIdentifications	A list of an additional location identifications.	Optional, zero or many	A list of AdditionalPartyIdentification fields (see 6.3).	
Contacts	A list of contacts for the location.	Optional, zero or many	A list of Contact fields (see 6.4).	

5.2 GeographicalCoordinates

Represents a geographical location of a GLN.

Field	Description	Cardinality	Format	Comment
Latitude	The latitude that represents the party location / address	Optional	An alphanumeric string including up to 80 characters.	Example: 18.0514115
Longitude	The longitude that represents the party location / address	Optional	An alphanumeric string including up to 80 characters.	Example: 59.3317092

5.3 AdditionalPartyIdentification

Represents an additional information which helps to identify a GLN.

Field	Description	Cardinality	Format	Comment
Identification	Additional identification value.	Optional	An alphanumeric string.	Example: Location identification value to specify the Registration Number: 556667-6770
IdentificationCode	Unique code representing type of the identification	Mandatory	A unique alphanumeric string.	Must be one of the codes specified in 6.1 in chapter Code lists .

5.4 Contact

Represents a contact associated with a GLN.

Field	Description	Cardinality	Format	Comment
Name	Name of the functional contact	Optional	An alphanumeric string including up to 35 characters.	Should not state individual contact first name and last name
CommunicationChannels	A list of communication channels for this contact.	Optional, zero or many	A list of CommunicationChannel fields (see 6.5).	

5.5 CommunicationChannel

Represent a contact associated with a GLN.

Field	Description	Cardinality	Format	Comment
Channel	Number or address for the communication channel.	Optional	An alphanumeric string including up to 70 characters.	
ChannelCode	Type of communication channel	Mandatory		Must be one of the channel codes specified in 6.2 in chapter Code lists .

6 Code lists

6.1 Additional Identification Type Codes

The following table provides a list of supported identification type codes for specifying additional location identification:

Code	Comment
NATIONAL_REGISTRATION_NUMBER	Identification code to specify registration number for the location.
EU_VAT_IDENTIFICATION_NUMBER	Identification code to specify VAT number for the location.

Table 1. Code list for Additional Party Identifications

6.2 Channel Codes

The following table provides a list of channel codes that can be used.

Code	Comment
TELEPHONE	Maximum of 200 characters.
EMAIL	Functional email address for the contact, maximum of 200 characters.
WEBSITE	Maximum of 200 characters.

Table 2. Code list for Channel Codes