

CBP and Trade Automated Interface Requirements

Global Business Identifier (GE) Enrollment

Create/Update

December 17, 2022 Revision 2



U.S. Customs and
Border Protection



This chapter provides records pertaining to Global Entity Identifier (GBI) processing.

Note to reader:

This document is not intended to be a stand-alone handbook to conducting business with U.S. Customs and Border Protection (CBP).

This CATAIR chapter provides direction on format and syntax for submitting the Global Business Identifier (GBI) transaction dataset. Information included regarding definitions, business rules and input parameters is present for the purpose of facilitating the implementation of various statutes, regulations, directives, and policy.

While primarily a technical document, this text is written with the presumption that the reader has some familiarity with applicable CBP laws, regulations, policies and procedures.

Be Advised:

A filer who transmits data or information through any electronic means to CBP certifies, by the act of transmitting such data or information, that the data or information transmitted is true and correct to the best of the filer's knowledge and belief. The filer also declares that all statements in an electronically transmitted entry, entry summary, invoice, claim, or other filing and all other information or data filed with the entry are true and correct to the best of the filer's knowledge and belief, and that the filer will produce at once any data or information showing that the statements are not true and correct.

NOTE: *“This guidance is subject to change based on modifications to the Global Business Identifier Evaluative Proof of Concept (GBI EPoC) Test.”*

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Table of Changes

Revision Number	Date of Change	Section(s) Affected	Brief Description of Change
2	December 17, 2022	All	Changes now available in Production
1.2	May 20, 2022	All	With respect to "D" Action: This term has been changed from "Cancel" to "Delete" throughout the document for consistency.
1.1	May 5, 2022	Output Record Usage Map	Adjustments to Req. Column values for GE30, GE31, GE32, GE40, GE41, and GE50 to "C" (Conditional).
1	April 5, 2022	All	Document created

GBI Enrollment

This chapter contains sections pertaining to GBI Enrollment.

Transaction Processing

GBI enrollment processing in this submission will be available to importers and customs brokers acting on behalf of an importer. The transaction set identifier for this input set is GE, and the response from CBP will be in the GX output transaction set. The GBI processing status from CBP will be in the GO output transaction set described in the GO chapter of the CATAIR.

Key Data Elements To Be Filed

Data Element Name	Record Identifier	Requirement
Action Code	GE10 record	Mandatory
Entity Name	GE10 record	Mandatory
GBI Identifier Qualifier	GE20 record	Mandatory
GBI Identifier	GE20 record	Mandatory
Role (Manufacturer, Shipper, Seller, Exporter, Packager, Distributor)	GE21 record	Mandatory
Entity Address (Line 1)	GE30 record	Optional
Entity Address (Line 2)	GE31 record	Optional
City	GE32 record	Conditional
State/Province	GE32 record	Optional
Country	GE32 record	Conditional
Postal Code	GE32 record	Optional
Phone Number	GE40 record	Optional
Website	GE41 record	Optional
Reference Identifier Type	GE50 record	Optional
Reference Identifier Value	GE50 record	Conditional

Record Layout Key

This sub-section provides the record layout key for the GBI CATAIR chapter. It describes the columns of the record layout definitions contained in the chapter.

Data Element:

Contains the name of the reported data field.

Length:

Indicates the maximum, allowed length of the reported data element.

Class:

Defines the domain of values accepted for the data element. The class definition represents the accepted domain to be used in **all** filing scenarios. Class codes are:

- S** = Space ONLY.
- A** = Alphabetic Data. Consists of characters A through Z (uppercase ONLY).
- N** = Numeric Data Only. Consists of numerals 0 through 9.
- (S)N** = Numeric Data Variation. May contain 'Numeric Data Only' **or** may consist of one or more spaces followed by numerals 0 through 9. Must consist of at least one right justified numeral. This variation of numeric class may be used for amounts, rates, and counts (where specified).
- AN** = Alphanumeric Data. Consists of characters A through Z (uppercase ONLY), numerals 0 through 9, and space.
- D** = Known Date. Consists of numerals 0 through 9 (format MMDDYY).
- X** = Special Data. Consists of characters A through Z (uppercase ONLY), numerals 0 through 9, space, and any other character found on a standard keyboard. The following characters are accepted:

! @ # \$ % ^ & * () - _ = + [{] } \ | ; : ' " , < . > / ? ` ~

Generally, the numeric data class is reserved for a data element used as an integer. It may also include a data element used as a sequencer (e.g., a line number).

Generally, any identifier or code is classed as alphanumeric. Note that this would include an identifier or code that may be required to be reported as all numerals.

Position:

Indicates the beginning and ending position, respectively, of the reported data element within the 80-character record.

Designation:

Indicates the reporting requirement as follows:

- M** = Mandatory. A value conforming to the listed class is required in all filing scenarios.
- C** = Conditional. A value conforming to the listed class may or may not be required for a particular filing scenario. The usage notes will describe the specific cases in which the data element is required or not allowed to be reported.
- O** = Optional. A value conforming to the listed class will be conditionally accepted if provided. An optional data element may be subject to validation, however.

Description:

Defines the data element and provides a further description of how it is to be reported. May include a list of acceptable values, an exception or further specification of the data class, and/or various rules regarding format, justification, and truncation.

Note:

Points to a further discussion regarding the reporting of the particular data element.

Additional Record Key Layout Rules

Unused fields, which are defined as numeric, should not be zero-filled. These fields should be space filled or data errors may result.

Data should not be placed in fields defined as filler. If data is present in filler fields, an error message may be system generated.

When transmitting data, all letters must be upper case. While some applications may not return specific error messages when detecting lower-case letters, CBP cannot guarantee the consistency of processing results for data transmitted in lower case.

All data elements are in fixed-length format. If all positions are not filled, the formatting rules are:

Code	Description
A	Left justify and Space fill.
AN	Left justify and Space fill.
N	Right justify and zero-fill.
X	Left justify and Space fill.

Note: Unless otherwise specified, if there is no data to insert in a field, Space fill.

Input Record Usage Map for “A” Add Actions

The following tables illustrate how the automated interface expects repeating groups to be structured within an input message.

Record ID	Name	Req.	Max Use	Notes
	Transaction Control Headers (A, B)	M	1	1
GE10	Action Code and Entity Name	M	1	
GE20	GBI Identifier Qualifier and Identifier	M	3	2
GE21	Entity Role	M	1	
GE30	Entity Address (Line 1)	O	1	
GE31	Entity Address (Line 2)	O	1	
GE32	Entity City, State/Province, Country, Postal Code	C	1	3
GE40	Entity Phone Number	O	1	
GE41	Entity Website	O	1	
GE50	Reference Identifier Type and Value	O	2	
	Transaction Control Trailers (Y,Z)	M	1	1

Designation: M = Reporting Mandatory; C = Reporting Conditional; O = Reporting Optional

Note 1

Transaction Control Headers and Trailers must conform to the requirements set out in the ACE CATAIR ABI Batch & Block Control Chapter.

Note 2

It is mandatory that a **minimum of three** GE20 Records be reported in each Add Action submission.

Note 3

A GE32 Record is mandatory if a GE30 or GE31 Record is being reported in the submission.

“D” Action to Delete a GBI Enrollment Transaction

Record ID	Name	Req.	Max Use	Notes
	Transaction Control Headers (A, B)	M	1	1
GE10	Action Code and Entity Name	M	1	
GE20	GBI Identifier Qualifier and Identifier	M	3	2
	Transaction Control Trailers (Y,Z)	M	1	1

Designation: M = Reporting Mandatory; C = Reporting Conditional; O = Reporting Optional

Note 1

Transaction Control Headers and Trailers must conform to the requirements set out in the ACE CATAIR ABI Batch & Block Control Chapter.

Note 2

In a Delete Action submission, it is mandatory that all three GE20 records from the original Add Action submission be present.

“U” Action to Update a GBI Enrollment Transaction

Record ID	Name	Req.	Max Use	Notes
	Transaction Control Headers (A, B)	M	1	1
GE10	Action Code and Entity Name	M	1	
GE20	GBI Identifier Qualifier and Identifier	M	3	2
GE21	Entity Role	M	1	
GE30	Entity Address (Line 1)	O	1	
GE31	Entity Address (Line 2)	O	1	
GE32	Entity City, State/Province, Country, Postal Code	C	1	3
GE40	Entity Phone Number	O	1	
GE41	Entity Website	O	1	
GE50	Reference Identifier Type and Value	O	2	
	Transaction Control Trailers (Y,Z)	M	1	1

Designation: M = Reporting Mandatory; C = Reporting Conditional; O = Reporting Optional

Note 1

Transaction Control Headers and Trailers must conform to the requirements set out in the ACE CATAIR ABI Batch & Block Control Chapter.

Note 2

In an Update Action submission, it is mandatory that all three GE20 records from the original Add Action submission be present.

Note 3

A GE32 Record is mandatory if a GE30 or GE31 Record is being reported in the submission.

Output Record Usage Map

The following tables illustrate how the automated interface will structure repeating groups within an output response message.

Record ID	Name	Req.	Max Use	Notes
	Transaction Control Headers (A, B)	M	1	
GE10	Action Code and Entity Name	M	1	
GE90	Error Record	C	99	
GE20	GBI Identifier Qualifier and Identifier	M	3	
GE90	Error Record	C	99	
GE21	Entity Role	M	1	
GE90	Error Record	C	99	
GE30	Entity Address (Line 1)	C	1	
GE90	Error Record	C	99	
GE31	Entity Address (Line 2)	C	1	
GE90	Error Record	C	99	
GE32	Entity City, State/Province, Country, Postal Code	C	1	
GE40	Entity Phone Number	C	1	
GE90	Error Record	C	99	
GE41	Entity Website	C	1	
GE90	Error Record	C	99	
GE50	Reference Identifier Type and Value	C	2	
GE90	Error Record	C	99	
GE90	Transaction Disposition Record	M	1	
	Transaction Control Trailers (Y, Z)	M	1	

Designation: M = Reporting Mandatory; C = Reporting Conditional; O = Reporting Optional

General Rules

Unused fields, which are defined as numeric, should not be zero-filled. These fields should be space filled or data errors may result.

Data should not be placed in fields defined as filler. If data is present in filler fields, an error message may be system generated.

When transmitting data, all letters must be upper case. While some applications may not return specific error messages when detecting lower-case letters, CBP cannot guarantee the consistency of processing results for data transmitted in lower case.

Data Elements

The data element descriptors are defined as:

Code Description

- A** The data element is alphabetic only.
- AN** The data element is alphanumeric only.
- C** The data element is special characters.
- N** The data element is numeric only.
- X** The data element is alphanumeric or special characters.

All data elements are in fixed-length format. If all positions are not filled, the formatting rules are:

Code Description

- A** Left justify and space fill.
- AN** Left justify and space fill.
- C** Left justify and space fill.
- N** Right justify and space fill.
- X** Left justify and space fill.

Note: Unless otherwise specified, if there is no data to insert in a field, Space fill.

Record Identifier GE10 (Input)

This is a mandatory input record that provides data pertaining to the action code and entity name.

Record Identifier GE10 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE10	
Action Code	1A	5	M	A code representing the type of transaction.	1
Entity Name	75X	6-80	M	The name of the entity represented by the identifier submitted.	

Note 1

Valid Action Codes are:

Code	Description
A	Add
D	Delete
U	Update

Record Identifier GE20 (Input)

This is a mandatory input record that provides data pertaining to the GBI type and GBI value.

Record Identifier GE20 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE20	
GBI Identifier Qualifier	4A	5-8	M	Identifies the type of identifier submitted. (LEI, GLN, DUNS)	1
GBI Identifier	20AN	9-28	M	A unique numeric or alphanumeric entity identifier.	
Filler	52S	29-80	M	Space fill.	

Note 1

Valid GBI Identifier Qualifiers are:

Qualifier	Description
LEI	GLEIF
GLN	GS1
DUNS	Dun & Bradstreet

Record Identifier GE21 (Input)

This is a mandatory input record that provides data pertaining to the potential role(s) that the commercial entity may act as in import transactions.

Record Identifier GE21 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE21	
Manufacturer Role	2A	5-6	O	If reported this field must always equal MF. This field is reported to indicate that commercial entity may act as Manufacturer/Producer.	1
Shipper Role	2A	7-8	O	If reported this field must always equal SH. This field is reported to indicate that commercial entity may act as Shipper.	1
Seller Role	2A	9-10	O	If reported this field must always equal SE. This field is reported to indicate that commercial entity may act as Seller.	1
Exporter Role	2A	11-12	O	If reported this field must always equal EX. This field is reported to indicate that commercial entity may act as Exporter.	1
Packager Role	2A	13-14	O	If reported this field must always equal PK. This field is reported to indicate that commercial entity may act as Packager.	1
Distributor Role	2A	15-16	O	If reported this field must always equal DR. This field is reported to indicate that commercial entity may act as Distributor	1
Filler	64S	17-80	M	Space fill.	

Note 1

A minimum of one of the following roles must be reported in the GE21 Record:

Code	Description
MF	Manufacturer/Producer
SH	Shipper
SE	Seller
EX	Exporter
PK	Packager
DR	Distributor

Record Identifier GE30 (Input)

This is an optional input record that provides data pertaining to Line 1 of the entity address.

<i>Record Identifier GE30 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE30	
Entity Address (Line 1)	76X	5-80	M	Line 1 address corresponding to the entity provided.	

Record Identifier GE31 (Input)

This is an optional input record that provides data pertaining to Line 1 of the entity address.

<i>Record Identifier GE31 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE31	
Entity Address (Line 2)	76X	5-80	M	Line 2 address corresponding to the entity provided	

Record Identifier GE32 (Input)

This is a conditional input record that provides data pertaining to entity city, state/province, country, postal code.

Record Identifier GE32 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE32	
City	35X	5-39	M	The city portion of the address where the entity is located.	
State/Province	24X	40-63	O	The state/province portion of the address where the entity is located.	
Country	2A	64-65	M	The International Standards Organization (ISO) country code representing the country portion of the address. A list of ISO country codes is found in CATAIR Appendix B.	
Postal Code	15X	66-80	O	Postal Code	

Record Identifier GE40 (Input)

This is an optional input record that provides data pertaining to the entity phone number.

<i>Record Identifier GE40 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE40	
Phone Number	22X	5-26	M	Phone number corresponding to the entity provided.	1
Filler	54S	27-80	M	Space fill.	

Note 1

This is an open text field. The phone number should be reported in a format that is easily readable, *not* a single unbroken string of digits.

Here are some examples for *possible* formatting:

<u>Phone Number</u>	Example from (Country)
54 11 4771-2000	<i>Argentina</i>
61 3 9678 3227	<i>Australia</i>
(514) 840-0910	<i>Canada</i>
86 21 5049 1234	<i>China</i>
49 7332-4819-0	<i>Germany</i>
(972) (74) 746-6453	<i>Israel</i>
39 0473 265100	<i>Italy</i>
52 844 137 8024	<i>Mexico</i>
212 52540-8080	<i>Morocco</i>

Record Identifier GE41 (Input)

This is an optional input record that provides data pertaining to the entity website.

<i>Record Identifier GE41 (Input)</i>					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE41	
Website	76X	5-80	M	Website corresponding to the entity provided.	

Record Identifier GE50 (Input)

This is an optional input record that provides data pertaining to the reference identifier type and reference identifier value.

Record Identifier GE50 (Input)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE50	
Reference Identifier Type	3A	5-7	M	The type of identifier being reported.	1
Reference Identifier Value	15AN	8-22	M	A unique numeric or alphanumeric entity identifier.	
Filler	58S	23-80	M	Space fill.	

Note 1

Valid Reference Identifier Types are:

Type	Description
MID	Manufacturer Identification Code
AEO	Authorized Economic Operator

Record Identifier GE90 (Output)

This is a mandatory output record that provides either an error or acceptance message.

NOTE: There are two types of GE90 records; a record-level GE90 and a message-level GE90. The record-level GE90 provides a description of the error related to a specific record/field. The message-level GE90 provides the status of the GBI Enrollment filing.

Record Identifier GE90 (Output)					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	4AN	1-4	M	Must always equal GE90.	
Message Type Code	2AN	5-6	M	01 = Message Rejected 02 = Message Accepted 11 = Record Rejected	
Message Identifier Code	3AN	7-9	C	A code that identifies the message.	
Narrative Message Text	70X	10-79	M	Narrative message text.	
Filler	1S	80	M	Space-fill	