APPLICATION OF ANSI X12

Identification of partners

AIAG recommends the use of Duns number (Dun & Bradstreet) as an existing code system for identification of partners.

The Duns numbers are sometimes at such high level, that we need a suffix to determine the exact sender or recipient.

The qualifier 14 indicates that Duns number with suffix is used.
In the EDI messages we identify partners with other identities, each message type has specific guidelines about the valid codes.

Interchange ID (ISA06/ISA08)

Together with the qualifier, these data elements produce a unique global identity for the sender or recipient.
See Application Agreements for the correct addresses.

Qualifier (ISA05/ISA07)

The Interchange ID “ISA06/ ISA08” level of significance is given to the Interchange ID, depending on the value allocated to the qualifier. A value of 1, or 14 shows that Duns number is used.

1.2 Detailed application

The following list a detailed example of the relevant service segments (ISA, GS, GE and IEA). The example refers to the Material Release for the Volvo Car Corporation Torslanda plant(VCC).

The syntax follows the same principles when dealing with applications of advanced shipping notice and invoices.
The difference is that the sender and receiver change places, and also that other application references are used. For more detailed information see message description.

Segment: **ISA Interchange Control Header**
Option: **Mandatory**
Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

Ref. Des.	Data Element	Name/Description/Values	Attributes		
ISA01	**I01**	**Authorization Information Qualifier** **Valid Code:** **00 No Authorization Information Present**	**M**	**ID**	**2/2**
ISA02	**I02**	**Authorization Information** Use 10 spaces	**M**	**AN**	**10/10**
ISA03	**I03**	**Security Information Qualifier** **Valid Code:** **00 No Security Information Present**	**M**	**ID**	**2/2**
ISA04	**I04**	**Security Information** Use 10 spaces	**M**	**AN**	**10/10**
ISA05	**I05**	**Interchange ID Qualifier** **Valid Codes:** **01 Duns (Dun & Bradstreet)** **09 X.121 (CCITT)** **12 Phone (Telephone Companies)** **14 Duns plus Suffix**	**M**	**ID**	**2/2**
ISA06	**I06**	**Interchange Sender ID** Use Dun & Bradstreet number with or without suffix, fill with spaces if needed	**M**	**ID**	**15/15**

ISA07	**I05**	**Interchange ID Qualifier** **Valid Codes:** **01 Duns (Dun & Bradstreet)** **09 X.121 (CCITT)** **12 Phone (Telephone Companies)** **14 Duns plus Suffix**	**M**	**ID**	**2/2**
ISA08	**I07**	**Interchange Receiver ID** Use Dun & Bradstreet number with or without suffix, fill with spaces if needed	**M**	**ID**	**15/15**
ISA09	**I08**	**Interchange Date** Date of creation - Format YYMMDD	**M**	**DT**	**6/6**
ISA10	**I09**	**Interchange Time** Time of creation - Format HHMM	**M**	**TM**	**4/4**
ISA11	**I10**	**Interchange Control Standards ID** **Valid Code:** **U US**	**M**	**ID**	**1/1**
ISA12	**I11**	**Interchange Control Version No** **Valid Code:** **00305**	**M**	**ID**	**5/5**
ISA13	**I12**	**Interchange Control Number** Unique interchange control number, can not be repeated within one year.	**M**	**NO**	**9/9**
ISA14	**I13**	**Acknowledgment Requested** **Valid Codes:** **0 No Ack. Requested** **1 Ack. Requested**	**M**	**ID**	**1/1**

ISA15	**I14**	**Test Indicator** **Valid Codes:** **T Test Data** **P Production Data**	**M**	**ID**	**1/1**
ISA16	**I15**	**Sub element Separator** The separator used to separate component data elements.	**M**	**AN**	**1/1**

EXAMPLE:
```
ISA*00*          *00*        *14*35416430301003
01 *098765432    *970221*0250*U*00305*000000128*
0*P*:.
```

Segment: GS Functional Group Header

Option: **Mandatory 1 per functional group**

Purpose: To indicate the beginning of a functional group and to provide control information.

Data Element Summary

Ref. Des.	Data Element	Name/Description/Values	Attributes		
GS01	**479**	**Functional identifier Code** **Valid Codes:** **IN 810** **AG 824** **PS 830** **SH 856**	**M**	**ID**	**2/2**
GS02	**142**	**Application Sender's Code** Use the number in ISA 06	**M**	**ID**	**2/15**
GS03	**124**	**Application Receiver's Code** Use the number in ISA 08	**M**	**ID**	**2/15**

GS04	**29**	**Data Interchange Date** Date of creation - Format YYMMDD	**M**	**DT**	**6/6**
GS05	**30**	**Data Interchange Time** Time of creation - Format HHMM	**M**	**TM**	**4/8**
GS06	**28**	**Data Interchange Control Number** Unique number within this interchange.	**M**	**NO**	**1/9**
GS07	**455**	**Responsible Agency Code** **Valid Code:** **X ASC X12 formats**	**M**	**ID**	**1/2**
GS08	**480**	**Version/Release/Industry ID Code** **Valid Code:** **003050 For this version**	**M**	**ID**	**1/12**

EXAMPLE: `GS*PS*354164303010003*098765432*970221*0250*128*X*003050`.

Segment: **GE** **Functional Group Trailer**
Option: **Mandatory 1 per functional group**
Purpose: To indicate the end of a functional group and to provide control information.

Data Element Summary

Ref. Des.	Data Element	Name/Description/Values	Attributes
GE01	**97**	**Number of Transaction Sets Included** Total number of ST segments in group	**M NO 1/6**
GE02	**28**	**Data Interchange Control Number** Must be identical to **GS06**.	**M NO 1/9**

EXAMPLE: **`GE*1*128.`**

Segment: **IEA** **Interchange Control Trailer**
Option: **Mandatory 1 per Interchange**
Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

Ref. Des.	Data Element	Name/Description/Values	Attributes
IEA01	**I16**	**Number of Included Functional Groups** Number of GS segments Included between ISA and this IEA.	**M NO 1/5**
IEA02	**I12**	**Data Interchange Control Number** Must be identical to **ISA13**.	**M NO 1/9**

EXAMPLE: `IEA*1*000000128.`