GENERAL MOTORS IMPLEMENTATION GUIDELINES

FOR

INTERCHANGE CONTROL

CORPORATE INFORMATION STANDARDS
INFORMATION SYSTEMS & SERVICES
GENERAL MOTORS CORPORATION

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GENERAL INFORMATION

PURPOSE

This Implementation Guideline details how General Motors recommended way in which to use the UN/ECE Interchange Control Segments. This Guideline was developed in order to provide EDS ELIT with a means of routing transactions utilizing the Interchange Control Segments. This routing is accomplished through use of General Motors Standard File Names in the UNB Interchange Control Header.

APPLICATION

This Implementation Guideline is to be used by all General Motors trading partners using EDS ELIT to transfer any EDIFACT Messages. The Version/Release level of the UNB/UNZ Segments, the envelope is independent of the Version/Release level of the transaction Set (s) contained within the envelope; and therefore, may be used with any message.

STRUCTURE OF THE GM IMPLEMENTATION GUIDELINE

The GM Implementation Guideline appearing on the following pages, include the Segment explanations and an appendix. The Segment information requirements for data element usage are also defined. GM will use the following symbols in the left column:

>>   GM requires that information is provided

X   GM does not expect to receive this information

(blank)   Some GM locations may expect to receive this data.

The Attributes column, located on the right side of the Segment information, provides the EDIFACT element size. GM plans to conform to the EDIFACT field parameters.

MAINTENANCE

Changes to this document will be reviewed by Information Systems & Services Group and will be subject to corporate approval through the ECBPT. The change process can only be initiated by individuals/organizations within the General Motors Corporation.

INTERCHANGE CONTROL

Tag: UNA – Service String

Purpose: To define the characters selected for use as delimiters and indicators used for the rest of the interchange.

GM plans, whenever possible, to utilize the default character set, so that the UNA service segment is not needed. But to insure a consistent interpretation, when UNOB character set is initiated, a UNA Service String Segment will be transmitted that insure the consistent use of the same characters. Following is the format that will be employed:

UNA:+.? '

Service String Characters are defined as follows:

Position	Definition	Character	Actual
1	component data element separator	Colon	:
2	Data element separator	Plus sign	+
3	Decimal Notation	Period	.
4	Release indicator	Question mark	?
5	Defined as a blank	(blank)	
6	Segment terminator	Apostrophe	'

TAG: UNB - Interchange Header
Purpose: To start, identify and specify an interchange

TAG: UNZ - Interchange Trailer
Purpose: To end and check the completeness of an interchange

This implementation guide specifies GM's requirements for use of the EDIFACT Interchange Control Structure (UNB). The UNB/UNZ provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of the envelope.

Following the guidelines, information presented in the UNB section will provide EDS ELIT with the capability of creating routing information for the transfer of data within the EDS ELIT network.

FUNCTIONAL CONTROL

TAG: UNG - Functional Group Header
Purpose: To start, identify and specify a Functional Group

TAG: UNE - Functional Group Trailer
Purpose: To end and check the completeness of a Functional Group

This implementation guide specifies GM's requirements for use of the EDIFACT Functional Group Control Structure (UNG). The UNG/UNE provides the interchange functional group header and trailer for the electronic interchange through a data transmission. It allows for the communication of multiple functional groups within an interchange. ***This business practice should be used ONLY when the GM application system owner has required the use of Functional Interchange Enveloping.***

Segment Directory

Segment:	**UNB** Interchange Header		
Usage:	Conditional		
Max Use:	1		
Purpose:	To start, identify and specify an interchange		
Syntax Notes:			
Semantic Notes:			
Comments:			
Notes:	UNB+UNOA:4+QES:ZZ+AAU:ZZ+19990825:1353+00000000000011++++++1'		

Data Element Summary

	Data Element	Component Element	Name	Attributes
>>	S001		**Syntax identifier**	**M**
			Identification of the agency controlling the syntax and indication of syntax level.	
>>		0001	**Syntax identifier**	**M a4**
			UNOA UN/ECE level A - The default character set.	
			UNOB is approved as an alternate character set for use with the GENRAL Message, but should only be used if advised by the GM trading partner.	
			Service String Characters:	
			Apostrophe ('): segment terminator;	
			Plus sign (+): segment tag and data element separator;	
			Colon (:): component data element separator;	
			Question mark (?): release character.	
>>		0002	**Syntax version number**	**M n1**
			Version number of the syntax identified in the syntax identifier (0001).	
			2 – Syntax Version Level defined by ISO 9735	
			4 – Syntax Version Level defined in ISO 9735	
			Contact your GM trading partner to determine which syntax version level will be exchanged.	
X		0080	**Service code list directory version number**	**C an..6**
X		0133	**Character encoding,coded**	**C an..3**
>>	S002		**Interchange sender**	**M**
			Identification of the sender of the interchange.	
>>		0004	**Sender identification**	**M an..35**
			Name or coded representation of the sender of a data interchange.	
			Communication Code/mailbox number of the party originating the message	
		0007	**Partner identification code qualifier**	**C an..4**
			1 – D-U-N-S Number	
			12 – Telephone number	
			14 – EAN (European Article Numbering Association)	
			30 – ISO 6523: Organization identification	
			ZZZ – Mutually Defined	
X		0008	**Address for reverse routing**	**C an..35**

Address specified by the sender of an interchange to be included by the recipient in the response interchanges to facilitate internal routing.

X		0042	**Interchange recipient internal sub-identification**	C	an..35
>>	S003		**Interchange recipient**	M	

Identification of the recipient of the interchange.

>>		0010	**Recipient identification**	M	an..35

Name or coded representation of the recipient of a data interchange.

Communication Code/mailbox number of the party receiving the message

		0007	**Partner identification code qualifier**	C	an..4

> 1 – Duns Number
> 12 – Telephone number
> 14 – EAN (European Article Numbering Association)
> 30 – ISO 6523: Organization identification
> ZZZ – Mutually Defined

X		0014	**Routing address**	C	an..35

Address specified by the recipient of an interchange to be included by the sender and used by the recipient for routing of received interchanges inside his organization.

X		0046	**Interchange recipient internal sub-identification**	C	an..35
>>	S004		**Date/time of preparation**	M	

Date/time of preparation of the interchange.

>>		0017	**Date of preparation**	M	n8

Local date when an interchange or a functional group was prepared.

Information will be formatted as CCYYMMDD

>>		0019	**Time of preparation**	M	n4

Local time of day when an interchange or a functional group was prepared.

Information will be presented as HHMM (assume 24 hour clock)

>>	0020		**Interchange control reference**	M	an..14

Unique reference assigned by the sender to an interchange.

Control Number for the Interchange. Must also appear in the UNZ.

X	S005		**Recipients reference password**	C	

Reference or password as agreed between the communicating partners.

		0022	**Recipient's reference/password**	M	an..14

Unique reference assigned by the recipient to the data interchange or a password to the recipient's system or to a third party network as specified in the partners interchange agreement.

		0025	**Recipient's reference/password qualifier**	C	an2

Qualifier for the recipient's reference or password.

Refer to D.97A Data Element Dictionary for acceptable code values.

	0026		**Application reference**	C	an..14

RESERVED FOR NETWORK USE
Identification of the application area assigned by the sender, to which the messages in the interchange relate e.g. the message identifier if all the messages in the interchange are of the same type.

X	0029		**Processing priority code**	C	a1

Code determined by the sender requesting processing priority for the interchange.
Refer to D.97A Data Element Dictionary for acceptable code values.

X	0031		**Acknowledgment request**	C	n1

Code determined by the sender for acknowledgment of the interchange.

Refer to D.97A Data Element Dictionary for acceptable code values.

X	0032		**Communications agreement id**	C	an..35

Identification by name or code of the type of agreement under which the interchange takes place.

0035	Test indicator	C	n1
	1 Interchange is a test file		

Note -1: When a GM trading partner is responding to an EDI communication from GM, the UNB prepared by the trading partner **must** contain the same Interchange Sender/Receiver IDs received in the GM UNB, but reversed in position (Sender ID moved to Receiver ID and Receiver ID moved to Sender ID). Transaction sets intended for a different GM destination (system or organizational unit) **must not be** contained in this specific UNB/UNZ envelope; they **must** be placed in a separate UNB/UNZ envelope with the appropriate destination code and the correct GM Standard File Name.

GM is composed of many different systems and organizational units that operate independently from each other, and each must be kept independent of the others as far as sources and destinations of data.
All Functional Groups within a single UNB/UNZ envelope must be of the same type so they will be routed properly.

Note -2: Your GM EDI contact **must** be notified if the data is test data.

Segment: # UNG Functional Group Header

Level: 0
Usage: Conditional
Max Use: 1
Purpose: To head, identify and specify a Functional Group
Syntax Notes:
Semantic Notes:
Comments:
Notes: UNG+GMCARD+ QES:ZZ+AAU:ZZ+19990825:1353+AES14+UN+D:97A'

Data Element Summary

Data Element	Component Element	Name	Attributes	
>>	0038	**Functional group identification**	M	An…6
		Identification of the one type of messages in a functional group.		
>>	S006	**Application sender's identification**	M	
		Identification of the sender's division, department etc. from which a group of messages is sent.		
>>	0040	**Application sender's identification**	M	an..35
		Name or code identifying the originating division, department etc. within the sender's organization..		
		Communication Code of the party originating the transaction		
	0007	**Partner identification code qualifier**	C	an..4
		1 – Duns Number 12 – Telephone number 14 – EAN (European Article Numbering Association) 30 – ISO 6523: Organization identification ZZZ – Mutually Defined		
>>	S007	**Application recipients identification**	M	
		Identification of the recipient's division, department etc. for which a group of messages is intended.		
>>	0044	**Application recipient's identification**	M	an..35
		Name or code identifying the division, department etc. within the recipient's organization for which the group of messages is intended. Communication Code of the party receiving the transaction		
	0007	**Partner identification code qualifier**	C	an..4
		1 – Duns Number 12 – Telephone number 14 – EAN (European Article Numbering Association) 30 – ISO 6523: Organization identification ZZZ – Mutually Defined		
>>	S004	**Date/time of preparation**	M	
		Date/time of preparation of the interchange.		
>>	0017	**Date of preparation**	M	n8
		Local date when an interchange or a functional group was prepared.		
		Information will be formatted as CCYYMMDD		
>>	0019	**Time of preparation**	M	n4
		Local time of day when an interchange or a functional group was prepared.		
		Information will be presented as HHMM (assume 24 hour clock)		
>>	0048	**Functional group reference number**	M	an..14
		Reference number for the functional group assigned by and unique within the sender's division, department etc. Control Number for the Functional Group.		
>>	0051	**Controlling agency**	M	an..3

Code identifying the agency controlling the specification, maintenance and publication of the message type.

UN	UN/ECE/TRADE/WP.4	

United Nations Economic UN Economic Commission for Europe (UN/ECE), Committee on the development of trade (TRADE), Working Party on facilitation of international trade procedures (WP.4).

>>	S008	**Message version**		**M**

Specification of the type of messages in the functional group.

>>	0052	**Message version number**	**M**	**an..3**

Version number of a message type.

D	Draft version/UN/EDIFACT Directory

Message approved and issued as a draft message (Valid for directories published after March 1993 and prior to March 1997). Message approved as a standard message (Valid for directories published after March 1997).

>>	0054	**Message release number**	**M**	**an..3**

Release number within the current message type version number (0052).

97A	Release 1997 – A

Message approved and issued in the first 1997 release of the UNTDID (United Nations Trade Data Interchange Directory).

X	0057	**Association assigned code**	**C**	**an..6**

Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.

X	0058	**Application password**	**C**	**an..14**

Password to the recipient's division, department or sectional system.

Segment: **UNE** **Functional Group Trailer**

Level:	0
Usage:	Conditional
Max Use:	1
Purpose:	To end and check the completeness of a Functional Group
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	UNE+5+AES14'

Data Element Summary

	Data Element	Component Element	Name	Attributes	
>>	0060		**Number of messages**	**M**	**n..6**
			A count of the number of messages in a functional group.		
>>	0048		**Functional group reference number**	**M**	**an..14**
			Reference number for the functional group assigned by and unique within the sender's division, department etc.		
			Control Number for the Functional Group. Must also appear in the UNG.		

Segment: **UNZ** **Interchange Trailer**

Level:	0
Usage:	Conditional
Max Use:	1
Purpose:	To end and check the completeness of an interchange
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	UNZ+1+00000000000011'

Data Element Summary

	Data Element	Component Element	Name	Attributes
>>	0036		**Interchange control count**	M n..6
			Count either of the number of messages or, if used, of the number of functional groups in an interchange.	
>>	0020		**Interchange control reference**	M an..14
			Unique reference assigned by the sender to an interchange.	
			Control Number for the Interchange. Must also appear in the UNB.	

APPENDIX

STANDARD FILE NAMES

		GM REQUIRED
EDIFACT DOCUMENT		FILENAMES

APERAK	Application Error and Acknowledgment	GMAPERAK
DELFOR	Delivery Schedule	GMDELFOR
DELJIT	Delivery Just In Time	GMDELJIT
DESADV	Despatch Advice	GMDESADV
RECADV	Receiving Advice	GMRECADV
GENRAL	Genral Purpose	GMGENRAL
INVRPT	Inventory Report	GMINVRPT

These filenames are used in the *THS record of the transmission.
When data files are transferred through a value-added network, the
filenames may also appear in the UNB segment, component element 0026.

Interchange Guideline Change Log

Item Number	Segment Group	Segment	Composite Code	Component	Code Values	Detail of Change
98.1.1		UNB	S001	0002	2	Added code value '2' to UNB to clarify version GM will be using
98.1.2		UNB	S001	0001	UNOB	Added code value 'UNOB' for use with the GENRAL Message only.
98.1.3		UNB	S002	0004 0007	1	Added code value '1' to allow for Duns number as communication qualifier ID
98.2.1		UNG/UNE				Financial Area requires the use of Functional Groups
98.2.2		UNB	S001 S004	0002 0017	4	Migrated to syntax version 4 to support 8 position date. Additional data elements within the message will not be used at this time.
98.2.3		UNB	S002	0004		Updated gray note to clarify communication source
98.2.4		UNB	S003	0010		Updated gray note to clarify communication source
99.2.1		UNB	S003	0042		Replace 0042 with data element 0046. Documentation was based on preliminary draft release information. This data element will remain "X" - not used.
00.1.1		UNB	S001	0001	UNOC	Added code value 'UNOC' for use at the discretion of the GM Unit.
00.1.2		UNB & UNG	S002 & S003	0007	12 14 30	The following codes are needed to support European Business Processes: 12 – Telephone number 14 - EAN (European Article Numbering Association) 30 - ISO 6523: Organization identification
00.2.1		UNB	S001	0001	UNOC	Removes code value 'UNOC' from use.
00.2.2		UNB	S001	0002	2	Adds syntax version '2' as an allowable value.