

Direct Material Releases
Delphi Saginaw Steering Systems EDI Guidelines
830 Transaction Set

This packet is to provide information to Delphi Saginaw Steering Systems Direct Suppliers who are receiving material releases in version 2003GM from Delphi Saginaw.

The purpose of a material release (830) is to electronically communicate a planning schedule & relate ship based forecasts from Delphi Saginaw Via EDS*Elit (formerly GM-Net).

The Delphi Saginaw Steering Guidelines on the following pages, follow the GM Implementation Guidelines for version 2003GM. The Delphi Saginaw Steering Systems EDI Guideline details how Delphi Saginaw uses the ANSI X-12 transaction set within the Corporate Guidelines. It provides a standardized format for the data to be sent in a planning schedule.

We recommend that the Suppliers code to Standard Version 002003GM. We reserve the right to add or change segments, qualifiers & fields to the 830 transaction set with GM Corporate guidelines. However, notification will be given before changes are made.

The following section provides an interpretation of each segment of the 830 transaction set that will be sent by Delphi Saginaw Steering Systems. Material releases will be sent to EDS*ELIT under the filename EDI830PSRC & destination code SSG.

The Guideline will detail three areas of the transmission - Heading Area, Detail Area & Summary Area. Any exceptions for Delphi Saginaw Steering Systems will be noted where applicable.

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830 TRANSACTION EXAMPLE

	ISA**00* **02*ABC *01*005356878*01*123456789 *020106*2400*U*00200*000000001*0*P*-. GS*PS*005356878*123456789*020106*2400*1*X*002003GM. ST*830*0001.
HEADING	BFR*05**04001*SH*A*020106*021201*020106. N1*MI*SAGINAW*1*005356878. N1*SU**1*123456789. NTE*GEN*BULLETIN VERBAGE.
	LIN**BP*07834567*PO*SAG90I2345*RN*12345. UIT*PC. PER*EX*JOHN SMITH*TE*9897571234. N1*ST**92*07. SDP*A*.
DETAIL	FST*1525*A*D*020106. FST*1525*D*D*020107. FST*1525*D*D*020108. FST*1525*D*D*020109. FST*1525*D*D*020110. FST*1525*D*D*020111. FST*1525*D*D*020113. FST*1525*D*D*020114. FST*1525*D*D*020115. FST*1525*D*D*020116. FST*1525*D*D*020117. FST*1525*D*D*020118. FST*500*D*W*020120. FST*500*D*W*020127. FST*500*D*W*020203. FST*500*D*W*020210. FST*500*D*W*020217. FST*500*D*W*020224. FST*500*D*W*020303. FST*500*D*W*020310. FST*500*D*W*020317. FST*500*D*W*020324 FST*0*D*M*020407. FST*0*D*M*020505. FST*0*D*M*020602. FST*0*D*M*020707. FST*0*D*M*020804. FST*0*D*M*020901. FST*0*D*M*021006. FST*0*D*M*021103. FST*0*D*M*021201. ATH*PQ**0**020106. ATH*FI**0**020106. ATH*MT**20**020106. SHP*01*50*050*020103. SHP*02*2500*050*020106. CTT*2*68700. SE*45*0001. GE*1*1. IEA*1*1.
SUMMARY	

SEGMENT SEQUENCE FOR THE HEADER AREA

ISA Interchange Control Structure
GS Functional Group Header
ST Transaction Set Header
BFR Beginning Segment for Planning Schedule
N1 Name of Material Release Issuer & the Supplier
NTE Note/Special Instruction

SEGMENT SEQUENCE FOR THE DETAIL AREA

LIN Item Identification Detail
UIT Unit Detail
PER Administrative Communications Contact (Expeditor)
N1 Name
REF Reference Numbers
SDP Ship/Delivery Pattern

SEGMENT SEQUENCE FOR THE SUMMARY AREA

CTT Transaction Totals
SE Transaction Set Trailer
GE Functional Group Trailer
IEA Interchange Control Trailer

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SEGMENT: ISA - Interchange Control Header (required)

PURPOSE: The ISA Segment is the Interchange Control Header used to start & identify an interchange of one or more functional groups & interchange related control segments. This is the only “fixed length” record in the ANSI X12 standard.

EXAMPLE: 1 2 3 4 5 6 7 8
ISA*00* **01*ABC *01*005356878*01*123456789

 9 10 11 12 13 14 15 16
*020106*2400*U*00200*000000001*0*P*-.

Elem ID	Elem #	Element Name & Definition
ISA01	I01	Authorization Information Qualifier. Use ‘00’ (zeroes).
ISA02	I02	Authorization Information Segment. Use 10 spaces.
ISA03	I03	Security Information Qualifier. Use ‘01’.
ISA04	I04	Security Information. Use Delphi Saginaw Elit destination code of SSG”.
ISA05	I05	Interchange ID Qualifier. Use ‘01’ indicating use of a Duns number.
ISA06	I06	Interchange Sender ID. Delphi Saginaw will use their Duns number ‘005356878’.
ISA07	I07	Interchange ID Qualifier. Use ‘01’ indicating the use of a Duns number.
ISA08	I08	Interchange Receiver ID. Delphi Saginaw will use the Supplier’s Duns number.
ISA09	I09	Date of the transmission. The date will be in YYMMDD format.
ISA10	I10	Time of the transmission. The time is based on a 24 hour clock & is in the HHMM format.
ISA11	I11	Interchange Standards ID. Delphi Saginaw will send ‘U’ indicating USA.
ISA12	I12	Interchange Version ID. Delphi Saginaw will send ‘00200’.

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SEGMENT: ISA - Interchange Control Header (required) [continued]

- ISA 13 I13 Interchange Control Number. This is a sequential number starting with 1 & incrementing by 1 for each ISA between Sender & Receiver.
- ISA14 I14 Acknowledge Requested Segment. Delphi Saginaw will send '0' indicating that an acknowledgment is not required.
- ISA15 I15 Test or Production indicator. A 'T' will indicate test mode & 'P' will indicate production mode. Data received in Test mode is actual data & a hard copy of the release is mailed. A 'P' will indicate production mode (electronic transmission only).
- ISA16 I16 Sub-element Separator.

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SEGMENT: GS - Functional Group Header (required)

PURPOSE: The GS Segment indicates that beginning of a functional group & provides control information.

EXAMPLE: 1 2 3 4 5 6 7 8
GS*PS*005356878*123456789*020106*2400*1*X*002003GM.

Elem ID	Elem #	Element Name & Definition
GS01	479	Functional Identifier Code. Delphi Saginaw will send 'PS' indicating Planning Schedule with Release capability.
GS02	142	Application Sender's Code. Delphi Saginaw's Duns #.
GS03	124	Application Receiver's Code. Supplier's Duns #.
GS04	29	Data Interchange Date. The format is YYMMDD.
GS05	30	Data Interchange Time. The format is HHMM based on a 2400 hour clock.
GS06	28	Data Interchange Control Number.
GS07	455	Responsible Agency Code. 'X' indicates ANSI ASC X12.
GS08	480	Version/Release/Industry Identifier Code. Delphi Saginaw uses 002003GM.

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SEGMENT: ST - Transaction Set Header

LEVEL: Heading (required)

PURPOSE: The ST Segment indicates the start of a transaction set & assigns a control number.

EXAMPLE: ST*¹830*²0001.

Elem ID	Elem #	Element Name & Definition
ST01	143	Transaction Set ID Code. Must Contain '830' indicating a Material Release transaction.
ST02	329	Transaction Set Control Number. Must contain a unique number that cannot be repeated within the calendar year.

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SEGMENT: BFR - Beginning Segment for Planning Schedule

LEVEL: Heading (required)

PURPOSE: The BFR Segment indicates the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; & related forecast envelope dates.

EXAMPLE: 1 2 3 4 5 6 7
BFR*05**04001*SH*A*020106*021201*020107.

Elem ID	Elem #	Element Name & Definition
BFR01	353	Transaction Set Purpose Code. Delphi Saginaw will send the following Codes: 05-Replace a subsequent transmission of a transaction set for the record Keeping year, replacing all previous transmitted data.
BFR02	328	Release Number. This is a serialized identification of the schedule indicating a new & complete transmission of all active parts applicable to the supplier.
BFR03	675	Forecast Type Qualifier. Delphi Saginaw will use the following codes: SH-Shipment based
BFR04	676	Forecast Quantity Qualifier. Delphi Saginaw will send code 'A' indicating "Replace".
BFR05	373	Forecast Horizon Start Date (Release Date).
BFR06	373	Forecast Horizon End Date (Release Date).
BFR07	373	The Date the Forecast was Generated (Current).
		****All date segments are in YYMMDD format.

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SEGMENT: N1 - Name

LEVEL: Heading (required)

PURPOSE: The N1 Segment is used to identify a part by type of organization, name & code.

EXAMPLE: ¹ N1*²MI*³SAGINAW*⁴1*005356878.

¹ N1*³SU**1*⁴123456789.

Elem ID	Elem #	Element Name & Definition
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N101	98	Entity ID Code. The following codes are mandatory: MI-Material Release Issuer SU-Supplier
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N102	93	This is the Name. Delphi Saginaw will send 'Saginaw'. Currently not sending the Supplier's Name.
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N103	66	ID Code Qualifier. Delphi Saginaw will send code '1' indicating the use of a Duns #.
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N104	67	Id Code. Delphi Saginaw will use Duns #.
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SEGMENT: NTE-Note/Special Instruction

LEVEL: Heading (optional)

PURPOSE: The NTE segment is used to transmit information in a free-form format, if necessary, for comment or special instruction.

EXAMPLE: NTE*¹GEN*²BULLETIN VERBAGE.

Elem Elem

ID # Element Name & Definition

NTE01 363 Note Reference Code. Delphi Saginaw will send code 'GEN' indicating 'entire transaction set'.

NTE02 3 Free Form Message.

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SEGMENT: LIN - Item Identification Detail

LEVEL: Detail (required)

PURPOSE: The LIN segment specifies basic item identification data.

EXAMPLE: 2 3 4 5 6 7
LIN**BP*07834567*PO*SAG90I2345*RN*12345

Elem ID	Elem #	Element Name & Definition
LIN02	235	Product/Service ID Qualifier. Delphi Saginaw will send code 'BP' indicating the part number shown on the contract.
LIN03	234	Product/Service ID. This is the part number shown on the contract.
LIN04	235	Product/Service ID Qualifier. Delphi Saginaw will sent code 'PO' indicating purchase order number.
LIN05	234	Product/Service ID. This is the Purchase Order number.
LIN06	235	Product/Service ID Qualifier. Delphi Saginaw will send code 'RN' indicating use of a release number.
LIN07	234	Product/Service ID. This is the Release Number.

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SEGMENT: UIT-Unit Detail

LEVEL: Detail (required)

PURPOSE: The UIT segment specifies item unit data.

EXAMPLE: UIT*¹PC.

Elem	Elem	
ID	#	Element Name & Definition

UIT01	355	1. Unit of measure code.
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SEGMENT: PER-Administrative Communications Contact

LEVEL: Detail (optional)

PURPOSE: The PER segment identifies a person or office to whom administrative communications should be directed.

EXAMPLE: 1 2 3 4
PER*EX*JOHN SMITH*TE*9897571234.

Elem ID	Elem #	Element Name & Definition
PER01	366	Contact Function Code. Delphi Saginaw will send code 'EX' indicating 'Expeditor'.
PER02	93	Name of the Expeditor.
PER03	365	Communications Number Qualifier. Delphi Saginaw will use code 'TE'.
PER04	364	Communications Number, Telephone Number.

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SEGMENT: NI - Name

LEVEL: Detail (optional)

PURPOSE: The NI segment identifies a party by type of organization name & code.

EXAMPLE: NI*¹ST*³⁴92*07

Elem	Elem
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ID	#	Element Name & Definition
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N101	98	Entity ID Code. Delphi Saginaw will send 'ST' indicating 'Ship to'.
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N103	66	ID Code Qualifier. Delphi Saginaw will send code '92' indicating 'assigned by buyer'.
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N104	67	ID Code. Delphi Saginaw will indicate the 'plant to ship to'. (ex. Plant 7 = 07)
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SEGMENT: REF-Reference Numbers

LEVEL: Detail (optional)

PURPOSE: The REF segment specifies identifying numbers.

EXAMPLE: REF*¹DK*²07

Elem ID	Elem #	Element Name & Definition
REF01	128	1. Reference Number Qualifier. Delphi Saginaw will send code 'DK' indicating 'dock'.
REF02	127	2. Reference Number. Delphi Saginaw will send the 'plant number' to indicate the dock location.

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SEGMENT: SDP-Ship/Delivery Pattern

LEVEL: Detail (required)

PURPOSE: The SDP Segment identifies specific ship requirements. This segment specifies ship patterns, such as, what day of the week, or what time of day the shipment is to be sent. This information is only valid if quantities are released in weekly or monthly buckets & are shipped on the same day each week or month, or are equally spread across specific days or the week or month.

EXAMPLE: SDP¹*A²*A

Elem ID	Elem #	Element Name & Definition
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SDP01	678	Ship Pattern Code.
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SDP02	679	Ship Pattern Time Code.
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SEGMENT: FST - Forecast Schedule

LEVEL: Detail (required)

PURPOSE: The FST segment specifies the forecasted dates & quantities.

EXAMPLE: ^{1 2 3 4}
FST*500*A*D*020106.
FST*500*D*W*020120.

Elem Elem

ID # Element Name & Definition

FST01 380 Quantity-Interpretation of this quantity is based on the code
qualifier in BFR05 which is an “A” indicating “replace”.

FST02 680 Forecast Qualifier-Delphi Saginaw Steering will use the following:
A - Immediate
D - Planning

FST03 681 Forecast Timing Qualifier-Delphi Saginaw Steering will use the
following:
D-Discrete
M-Monthly
W-Weekly

FST04 373 Beginning Date of the specified interval.

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SEGMENT: ATH-Resource Authorization

LEVEL: Detail (optional)

PURPOSE: The ATH Segment specifies resource authorizations in the planning schedule.

EXAMPLE: ¹ATH*³FI**4575**⁵020106
ATH*MT**4575*020106

Elem ID	Elem #	Element Name & Definition
ATH01	672	Resource Authorization Code. This code identifies the resource which the buyer is authorizing the seller to commit to. Delphi Saginaw will send the following codes: FI-Finished (Labor, Material & Overhead/Burden) MT-Material PQ-Cumulative quantity required prior to first schedule period.
ATH03	380	Quantity-Cumulative quantity authorized to date.
ATH05	373	Date-Cumulative quantity start date.

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SEGMENT: SHP-Shipped/Received Information

LEVEL: Detail (optional)

PURPOSE: The SHP Segment specifies shipment &/or receipt information. When this segment is used, it applies to the last shipment received or shipped.

EXAMPLE: 1 2 3 4 6
SHP*01*25000*050*020102
SHP*02*25000*050*020106**020102

Elem ID	Elem #	Element Name & Definition
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SHP01	673	Quantity Qualifier. Delphi Saginaw will send the following codes: 01-Discrete quantity. 02-Cumulative quantity.
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SHP02	380	Quantity.
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SHP03	374	Date/Time Qualifier. Delphi Saginaw will use code “050” indicating ‘received’.
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SHP04	373	Date. The date is dependent on the qualifier used. 01 (Discrete)-This is the last received date. 02 (Cumulative)-Received start/end date.
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SHP06	373	Quantity Qualifier. If the quantity qualifier is 02, cumulative, SHP06 identifies the ‘Last Received Date’.
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SEGMENT: CTT-Transaction Totals

LEVEL: Summary (required)

PURPOSE: The CTT segment transmits a hash total for a specific element in the transaction set.

EXAMPLE: CTT*¹2*²68700

Elem ID	Elem #	Element Name & Definition
CTT01	354	Number of line items. Total number of LIN Segments.
CTT02	347	Hash total. Hash total of quantities.

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SEGMENT: SE-Transaction Set Trailer

LEVEL: Summary (required)

PURPOSE: The SE segment indicates the end of a transaction set & provides the count of the transmitted segments, including the beginning ST & ending SE segments.

EXAMPLE: 1 2
SE*30*0001

Elem ID	Elem #	Element Name & Definition
SE01	96	Number of included segments.
SE02	329	Transaction set control number. This must be the same number contained in ST02 of the ST-Transaction Set Header.

SEGMENT: GE-Functional Group Trailer
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LEVEL: Summary (required)

PURPOSE: The GE segment is the functional group trailer designating the end of a functional group & provides control information.

EXAMPLE: ^{1 2}
GE*1*1

Elem ID	Elem #	Element Name & Definition
GE01	97	Number of transaction sets included. This is the total count of transaction sets (ST through SE) included in this functional group.
GE02	28	Group Control. This number is identical to the number in GS06 in the functional group header.

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SEGMENT: IEA-Interchange Control Trailer

LEVEL: Summary (required)

PURPOSE: The IEA segment defines the end on an interchange of one or more functional groups & interchange related control segments.

EXAMPLE: IEA*¹²1*1

Elem ID	Elem #	Element Name & Definition
IEA01	I16	Number of included groups. This is the number of functional groups (GS/GE Pairs) between the ISA & the IEA.
IEA02	I12	Interchange control number. This control number must match the ISA control number.