



# Infor BMW SPAB (BX)

Traditional

**Copyright © 2018 Infor**

### **Important Notices**

The material contained in this publication (including any supplementary information) constitutes and contains confidential and proprietary information of Infor.

By gaining access to the attached, you acknowledge and agree that the material (including any modification, translation or adaptation of the material) and all copyright, trade secrets and all other right, title and interest therein, are the sole property of Infor and that you shall not gain right, title or interest in the material (including any modification, translation or adaptation of the material) by virtue of your review thereof other than the non-exclusive right to use the material solely in connection with and the furtherance of your license and use of software made available to your company from Infor pursuant to a separate agreement, the terms of which separate agreement shall govern your use of this material and all supplemental related materials ("Purpose").

In addition, by accessing the enclosed material, you acknowledge and agree that you are required to maintain such material in strict confidence and that your use of such material is limited to the Purpose described above. Although Infor has taken due care to ensure that the material included in this publication is accurate and complete, Infor cannot warrant that the information contained in this publication is complete, does not contain typographical or other errors, or will meet your specific requirements. As such, Infor does not assume and hereby disclaims all liability, consequential or otherwise, for any loss or damage to any person or entity which is caused by or relates to errors or omissions in this publication (including any supplementary information), whether such errors or omissions result from negligence, accident or any other cause.

Without limitation, U.S. export control laws and other applicable export and import laws govern your use of this material and you will neither export or re-export, directly or indirectly, this material nor any related materials or supplemental information in violation of such laws, or use such materials for any purpose prohibited by such laws.

### **Trademark Acknowledgements**

The word and design marks set forth herein are trademarks and/or registered trademarks of Infor and/or related affiliates and subsidiaries. All rights reserved. All other company, product, trade or service names referenced may be registered trademarks or trademarks of their respective owners.

### **Publication Information**

Release: Infor BMW SPAB

Publication date: October 2018

# Contents

<b>Contents.....</b>	<b>3</b>
<b>Table of Changes .....</b>	<b>4</b>
General Information .....	5
Transaction Sets and Versions .....	5
SPAB Bill-of-Material .....	5
Reorders.....	5
Security .....	6
File Archiving / Auto Print and Process .....	6
Implementation.....	7
Identification Code File .....	7
Machine Readable - Destination Abbreviation .....	8
Model Year.....	8
Parts Cross Reference.....	9
Requirement File - Clear and Report Flags.....	15
CUM Required Prior.....	16
Requirement File.....	17
Application Control File .....	22
Transmission Status Report.....	22
Orphaned Records Report.....	22
Shipper Maintenance .....	38
VL0 Menu.....	39
Print Method.....	40
Print Requirements (830, 862, 866).....	40
Process Requirements (830, 862, 866) .....	42
ASNS.....	43
Maintain ASNs .....	44
<b>How to Use This Document.....</b>	<b>47</b>
General Information .....	47
Security .....	47
Implementation.....	47
VL0 Menu.....	47
ASNs .....	48
Electronic Invoice Menu.....	48

## Table of Changes

Changed By	Date	Reason	Update#	Section Changed
K. Radtke	10/20/17	New Application Control record for transmission report	A117112010	Application Control Keyword
K. Radtke	10/6/17	Add 3 new keywords, DELFOR and new DELJIT processing, SPAB Packing List & SPAB Rack Sheet	A117100203	Application Control Keyword

# General Information

## Transaction Sets and Versions

BMW SPAB supports the following transaction sets:

- 830 Material Release Version 2000
- ASN --- (Flat File)
- DELFOR
- DELJIT TOD Version 96A
- DELJIT SCO Version 97A
- DELJIT REORDERS Version 96A

## SPAB Bill-of-Material

SPAB is a "Standardized Production Call-Off System," which provides fine-tuned material planning information to suppliers for sequenced materials within one day of a vehicle's production. Order-related SPAB is a standardized sequence call-off system available for use in all BMW vehicle production plants.

BMW defines parts and components in terms of Part Family, Supply Group, and Part Numbers. Part Family is a group of closely linked parts that are treated in one way. Supply Group further defines the subcategories under a Parts Family. Supply Group consists of multiple Part Numbers.

The SPAB system at BMW has the ability to call off parts by Vehicle Order Number. In the SPAB system, the Customer Order is created and total Order BOM is generated based on parts release. The TOD (Technical Order Data), which is the supplier-specific BOM, is created in SPAB and is transmitted to the supplier as a DELJIT. BMW sends the complete configuration (Part Family, Supply Group associated with Part Family, and Part Numbers associated with Supply Group) in the TOD. The supplier will receive a Sequence Call-Off DELJIT after the daily TOD package for those orders, indicating when to deliver parts to BMW. The Call-Off transmits only the Supply Groups, along with Delivery Date and Time.

Since with every Order Number the configuration/Bill-of-Material for the Supply Group can change depending on the Order, the user must set up a SPAB Bill-of-Material linking component part numbers to a finished product. Every incoming order will be verified against the Bill-of-Material File to ensure that the order contains a valid configuration.

## Reorders

When reordering an entire Supply Group, BMW does not send line items in the file; only the Part Family and Supply Group are sent.

There are two types of reorders: those with line items and those without line items.

The Bill of Material is not sent on a reorder. The Bill of Material for a reorder is retrieved from the Shipping History. If the original order is not found in Shipping History, the reorder is not processed in.

When only a sub-assembly of a finished part has to be reordered, the Reorder File is sent with Part Numbers making up that sub-assembly. The combination of the Part Numbers is verified against the SPAB Bill-of-Material File to verify it is a valid sub-assembly.

When the entire finished part is reordered, the Reorder File is sent with the Part Family and Supply Group only. The finished part to be manufactured and the individual components are retrieved from the Shipping History File.

# Security

## Communication Method

BMW SPAB communicates through the ACM (Advanced Communications Module) component.

For more information on ACM, see Chapter 17 of the AutoRelease Main Manual. Enter security requirements (identification codes, passwords, etc.) before attempting to receive or transmit. Network security is entered one time, but may be accessed by multiple trading partners.

Note: When establishing communication set up either with a VAN or direct, the following must exist:

Wrap Data? YES - 80

Start New Record on New Interchange? YES

BMW SPAB FTPs through CLEO using FTP/S to receive DELJIT and 830 data.

BMW requires the flat file ASN to be transmitted to BMW using MQS. The supplier must create a generic FTP script to transmit the ASN to an IFS directory. MQS software will retrieve the file from the directory and transmit it to BMW.

## File Archiving / Auto Print and Process

(Option 3 on the AZ10 Menu - ACM)

AZD2008	PROCESS PROFILE SETUP
OEM .....	
Company .....	
Auto Print .....	
Auto Process.....	
Auto 997.....	
Days To Archive.....	

- Auto Print (Y/N) - Enter "Y" if using AutoReceive and Breakdown (scheduled through ACM), to perform an automatic Print after the Breakdown. Enter "N" if not using AutoReceive, or, if using AutoReceive and Breakdown, if the Print option is not to be run automatically after the Breakdown.
- Auto Process (Y/N) - Enter "Y" if using AutoReceive and Breakdown (scheduled through ACM) and if also using Auto Print, to perform an automatic Process after the Receive, Breakdown and Print. Enter "N" if not using AutoReceive, or, if using AutoReceive, Breakdown, and Auto Print, if the Process option is not to be run automatically after the Print.
- Auto 997 (Y/N) – Enter "Y" and a 997 will automatically be sent back to the OEM acknowledging receipt of inbound EDI data.
- Days to Archive - Enter the number of days to archive files received from the OEM. Files must be saved at least one day. Archived files are files that are stored for a given number of days, so that they can be reactivated. The number of days is not based on calendar days. Only the number of days when a communication session takes place is counted. Then the archived files are removed during the next shift.

Note: Only error-free requirements are processed. Errors must be corrected and the "Print" and "Process" options must be taken manually to process the remaining data.

# Implementation

## Identification Code File

The Identification Code File is used when taking the options to "Split" and "Breakdown" a file received from BMW SPAB and when ASNs are transmitted. The Identification Code File is used differently by different OEMs.

```
Company Number - xx
OEM Code - BX
Plant ID - Your Supplier Code

OEM ID - BMWSPAB's DUNS #
Corporate ID - Not used by BMWSPAB
Remit to Duns Number - Blank
VAT Code - Tax ID
Transmission Mode - P
Smart Labels - N
Pallet Staging - N
Bar Code File Transfer - N
Variable Unwrap Print - Y or N
Automatic print of 997 - N
AutoMap - N
```

Errors that occur during the Split that indicate a code is missing from the Identification Code File are referring to OEM ID.

Errors that occur during the Breakdown that indicate a code is missing from the Identification Code File are referring to Plant ID.

## Machine Readable - Destination Abbreviation

Since the Destination ID is not sent in the TOD data, the value sent in the UNB segment in the third position (element three) will be used to identify the destination.

### Destination Screen

DESTINATION ABBREVIATION RECORD	
Company Number .....	KB
OEM Code .....	BX
Identification Number .....	152354
Dock Location .....	
Destination Abbreviation ....	BXCUST
Destination Description .....	
P O Destination .....	000000000
ERS Destination .....	(Y/N)
OEM Consideration .....	(Y/N)
Electronic Invoices .....	N (Y/N)
Line Set .....	N (Y/N)
Clear By Destination .....	N (Y/N)
Type of FBO .....	(M/S)
Chrysler PAB/Non-PAB Combine.	(Y/N)
Send Prev CUM on ASN/DESADV .	N (Y/N)
Exclude from APNAT calc .....	N (Y/N)
Place on Credit Hold .....	(Y/N)
Ship Direct .....	(Y/N)

## Model Year

BMW SPAB does not send model year. Therefore, the Requirement and Price Files must be entered leaving the Model Year field blank.



## Parts Cross Reference

BMW requires that the Engineering Revision/AI Level be verified for changes. To do so, the Engineering Revision/AI Level will be concatenated to the Customer Part Number, with a hyphen separating the two values.

The Customer Part Number must be set up in the Parts Cross Reference File accordingly.

RLD13400B		PART CROSS REFERENCE MAINTENANCE	
Company .....	46		
Customer Abbreviation .....	SPBCST		
Customer Part Number .....	4367335-01		
Destination Abbreviation ...	(O)		
Bar Code Part Number .....	4367335-01		
Internal Part Number .....	I4367335		
Part Description .....			
Color Description .....			
Part Weight (5 dec)	21.25000	Metal Thickness (3 dec)	
OEM Misc Information #1 ..		Reason Code	
OEM Misc Information #2 ..		Reason Code	
Shipping Warehouse .....		DR Account .....	
Shipping Location .....		CR Account .....	
Consignee Warehouse .....		Section Number ...	
Consignee Location .....		Rule Number .....	
Country of Origin .....	US	Origin Criterion .	
Province of Origin .....			
Harmonized System Code ...		User Defined	
Supplier ID .....			
F1=Help F7=Dimension F9=Extension F12=Return			

In the example above, "4367335" is the Part Number and "01" is the Engineering Revision/AI Level.

## Setup

- All feature and end parts must be entered in the Parts Cross Reference File. A default warehouse location can be entered for feature and end parts.
- Feature - Weight required.
- End - There is no customer part number. The in-house part number may be used or any user-defined part number. This is the part number that prints on the shipper.
- No weight required. The weights are calculated by adding the weights from base and feature parts.

## Parts Cross Reference

When a reorder comes in it may not have the same engineering revision as the original order. Therefore, place the base part number into the OEM Miscellaneous 1 field.

```

RLD13400B          PART CROSS REFERENCE MAINTENANCE

Company ..... B1
Customer Abbreviation ..... B1SPAB
Customer Part Number ..... A111111-11
Destination Abbreviation ...      (O)

Bar Code Part Number ..... A111111-11
Internal Part Number ..... I-A111111-11
Part Description ..... PART DESC FOR A
Color Description .....
Part Weight (5 dec)          5.00000      Metal Thickness (3 dec)
OEM Misc Information #1 .. A111111          Reason Code
OEM Misc Information #2 ..                Reason Code
Shipping Warehouse .....      DR Account .....
Shipping Location .....      CR Account .....
Consignee Warehouse .....    Section Number ...
Consignee Location .....    Rule Number .....
Country of Origin ..... US    Origin Criterion .
Province of Origin .....
Harmonized System Code ...    User Defined
Supplier ID .....
F1=Help  F7=Dimension  F9=Extension  F12=Return

```

## BXAUTOTRNRPT BMW SPAB submit Transmission Rpts during Process

\*\*\*\*\*

\* Enhanced Application Control Record \*

\*\*\*\*\*

Description of what new Enhanced Application Control record does:

When active this keyword will submit the BMW SPAB Transmission Status reports during the process requirements job stream.

Below is a list of valid values for submitting the Transmission reports during the process.

Enter 'YY' will submit the Transmission reports during the process with Preliminary = Y

Enter 'YN' will submit the Transmission Reports during the process with Preliminary = N

Enter 'NN' will not submit the Transmission reports during the process.

NOTE: The From Date/Time will always be zeros.

Keyword: BXAUTOTRNRPT

Description: BMW SPAB submit Transmission Rpts during Process

Valid keys: OEM

Entry Fields: Text

Valid Entries: YY, YN, NN

From the main menu select System Maintenance (option 11),

Application Control File Maintenance (option 17),

Enhanced Application Control File Maintenance (option 1),

Enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*\*"

Enter the values for the: text with YY, YN or NN

## Re-Orders:

Identifying when re-orders are received:

On the requirement edit list the file type will be SPABRO REORDERS, the Call-Off number will begin with RE and the Requirement type and frequency will be A/D:

-----  
USER: FUTURE BMW MANUFACTURING SPAB PRODUCTION SEQUENCE EDIT LIST PAGE:  
1

8/11/XX 11:53 COMPANY - BX SPAB COMPANY PRGM: VLR4600BX  
-----

File Type: SPABRO REORDERS System File ID: 1722311530 File Date: 08/04/XX  
File ID : 170805001359SX Sequential Pkg#: 000000000000000005 File Time: 21:29  
Supplier#: 123456789 Release Date: 08/04/XX Issuer Id: BMWW10  
Plant Id: 75 Cust Abbrv: BXSPAB Dest Abbrv: BXSPAB  
ORDER NUMBER PART FAMILY Purpose Code: 3 Original Sequence Number: 0002447162  
-----  
1536288 LENGBR1 VIN: 0V26076  
SUPPLY GROUP END PART NUMBER QM Number: 23744313 Serial Number:  
-----  
LENKPG1 I-SPABPART16  
-----  
Call-Off Number: RE1536288  
Req. Type: A Dock Code: M01075  
Req. Frequency: D End Location: 7550M0100000

Change Seq#:

Customer Component	Internal Component	Quantity
Number	Number	
-----	-----	-----
7291213-08	I-7291213-08	1
7291217-10	I-7291217-10	1
7327909-08	I-7327909-08	1
7327913-08	I-7327913-08	1
7327917-16	I-7327917-16	1
7348383-09	I-7348383-09	1
7443901-01	I-7443901-01	1
7459237-02	I-7459237-02	1

During the EDI process step:

The Process Audit Report will indicate a Re-Order was received and the Call Off number will begin with RE.

-----  
USER: FUTURE                      BMW MANUFACTURING SPAB PRODUCTION SEQUENCE (866) PROCESS AUDIT REPORT                      PAGE:  
1

8/11/XX 13:23                      COMPANY - BX SPAB COMPANY                      PRGM: RSR5706BX  
-----

---  
COMP CUST ABREV DEST ABREV REL DATE PACKAGE ID PACKAGE DATE/TIME                      SYSTEM FILE ID

-----  
BX      BXSPAB      BXSPAB                      5      08/04/XX 21:29                      1722311530

ORDER NUMBER      PART FAMILY      SUPPLY GROUP      END PART      ASSM DATE  
-----

1536288              LENGBR1              LENKPG1              I-SPABPART16              07/31/XX              Re-Orders Received.

QM Number:              23744313

SEQUENCE NUMBER              VIN#                      CALL-OFF NUMBER              SWET DATE/TIME  
-----

0002447162              0V26076                      RE1536288

INTERNAL PART#      QUANTITY  
-----

I-7291213-08              1 ADDED

I-7291217-10              1 ADDED

I-7327909-08              1 ADDED

I-7327913-08              1 ADDED

I-7327917-16              1 ADDED

I-7348383-09              1 ADDED

I-7443901-01              1 ADDED

I-7459237-02              1 ADDED

And

On the Net Change report the TRN type will be REO and the Requirement Type and Frequency will be A/D

-----  
---  
USER: FUTURE REQUIREMENT MASTER NET CHANGE REPORT PAGE:  
1

8/11/XX 13:23 COMPANY BX PRGM:  
JTRUPDT  
-----  
---

	CHG	---	REQUIREMENT	---	---	NET REQUIREMENT	---	NET		REQ	REQ
CUST	BMW PART NUMBER	SEQ#	TRN	DATE	TIME	NEW	OLD	CHANGE	STATUS	TYP	FRQ
ACTION											
ORDER #	INTERNAL PART NUMBER	SEQUENCE NUMBER	PACKAGE ID	PACKAGE DATE/TIME	SYSTEM FILE ID					SWET DATE/TIME	
BXSPAB	SPABPART16	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											
1536288	I-SPABPART16	0002447162	5	08/04/XX 21:29	1722311530						
07/31/XX21:29											
BXSPAB	7291213-08	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											
1536288	I-7291213-08	0002447162	5	08/04/XX 21:29	1722311530						
07/31/XX21:29											
BXSPAB	7291217-10	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											
1536288	I-7291217-10	0002447162	5	08/04/XX 21:29	1722311530						
07/31/XX21:29											
BXSPAB	7327909-08	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											
1536288	I-7327909-08	0002447162	5	08/04/XX 21:29	1722311530						
07/31/XX21:29											
BXSPAB	7327913-08	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											
1536288	I-7327913-08	0002447162	5	08/04/XX 21:29	1722311530						
07/31/XX21:29											
BXSPAB	7327917-16	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											
1536288	I-7327917-16	0002447162	5	08/04/XX 21:29	1722311530						
07/31/XX21:29											
BXSPAB	7348383-09	REO	7/31/XX	9:29 PM	1			1	New	A	D
ADDED											

1536288 I-7348383-09 0002447162 5 08/04/XX 21:29 1722311530  
07/31/XX21:29

BXSPAB 7443901-01 REO 7/31/XX 9:29 PM 1 1 New A D  
ADDED

1536288 I-7443901-01 0002447162 5 08/04/XX 21:29 1722311530  
07/31/XX21:29

BXSPAB 7459237-02 REO 7/31/XX 9:29 PM 1 1 New A D  
ADDED

1536288 I-7459237-02 0002447162 5 08/04/XX 21:29 1722311530  
07/31/XX21:29

## Requirement File - Clear and Report Flags

BMW may not send full replace files or may send full replace 830 files for the SPAB program. If BMW does not send full replace files to your company, do not mark the clear flags to clear all data. If BMW does send full replace 830 files to your company, the 830 clear flag must be marked.

Report flags need to be marked for the 830 and the 866. The DELJIT TOD and SCO requirements are processed as 866 requirements.

## **CUM Required Prior**

BMW SPAB does not send CUM required prior.

The CUM required prior must be entered manually before going live so the system can include ahead or behind figures in the package quantity. The CUM required prior is entered using the option Enter Manual Requirements. CUM required prior can be entered using F5 from the entry screen or it may be entered directly on the header screen.



## Requirement File

All base and end parts must be entered in the Requirement Master File.

JTDMAINT2				REQUIREMENT MASTER ENTRY				CHANGE			
Company DG		Customer BXCUST	Part I6970700		Destination BXDEST		MY				
Customer Part # ....		6970700		OEM Code .....		BX					
Supplier Code .....		0010055910		OEM Division ...							
Customer # .....		101		Destination # .....							
Commodity Code .....		100		Unit of Measure ....		EA					
Controlling Source .				Price Code .....							
Dock Code .....				Trailer Capacity ...							
Container Part # ...		RCK25		Package Quantity ...						1	
MRP		Reports		Clear							
866 X	862	830 X	850	866 X	862	830 X	850	866	862	830 850	
Process P.O.s											
Planner # .....		0000		Balance Out Code ...		Product Code .					
Weekly Ship Code .				Final Release Code .		Analyst # ....					
Rack ID .....											
User #1 ..				User #2 ..							
User #3 ..		.00000									
Remarks ..											
F1=Help		F7=OEM Info		F8=REQB		F9=REQC		F10=Delete			
F11=File Maint		F12=Return		F19=Fab/Mtl		F20=Special Process					

Mark the 830 MRP and the 866 flags for feature parts to pass planning to MRP. Do not mark the 830 or 866 flags for end parts, because requirements for end parts are not sent by the OEM. Mark the 866 report flag.

## Requirement File - Special Processing Window

Access the special processing window with F20 from the Requirement File header screen.

JTDMaint4	Special Processing Information
Load Past Due Req'ts from History? (Y/N/B/M) .....	Chrysler Special Processing for 'B D' or 'B W' Reqs (B/L/S)....
<b>Type of Processing (C/N).</b> N	Remove Chry EDI 'B D' or 'B W' Reqs. prior to today (Y/N) .....
Ignore STD PAK for Load/MRP Build? (Y/N) ..	Omit 830 planning req'ts in Shipping (Y/N) .....
<b>Competitor Part (C) or FBO Flag (B/F/J/E)</b> .....	Pricing Based On Order Quantity Or Ship Quantity? (O/S) .....
Special Partial Week for current week (Y/N) ..	Override in Manual Req'ts Entry: Release Number and Date? (Y/N) ..
No Container Calculation for Part On Shipper (Y/N)	P.O. Number? (Y/N) .....
	Eng. Revision Level? (Y/N) .....
Partial Week With Sunday Dates (Y/N) .....	Secondary OEM Code .....
	<b>SPAB BOM Flag</b> ..... F
	OEM Specific Process (B,Q,Z).....
F1=Help F12=Return	

- Type of Processing - CUMs are not sent by this OEM. The 866 requirements are an exception to the Shift. Mark this flag "N" for "Net."
- SPAB BOM Flag - Mark the flag "F" for "Feature" or "E" for "End" if this Requirement File represents a component or end part. If this code is changed either from or to an "E" SPAB-BOM file needs to be updated, also.
- All end parts must also be entered in the Part Bill of Material File.

## Bill of Material File (Parts)

A new option (SPAB Bill of Material File) has been added to the File Maintenance option accessed from the Requirement Master maintenance screen. This option is available only when a part is marked as an end part.

File Maintenance Selection
___ Multiple Rack X-reference
___ SPAB Bill of Mat'l File
Bottom
F12=Return

Select the SPAB part Bill of Material file.

MAINTAIN PART FAMILY BILL OF MATERIAL FILE		
Inactive Status.....	I=Inactive	Blank=Active
Base End Part Group.....	Y=Base	Blank=Not Base
Company Number ..... KB		
Customer Abbreviation ..... BXCUST		
Destination Abbreviation ... BXDEST		
Internal End Part # ..... BX400		
Internal Part Family # ..... ABCDE70		
Internal Supply Group # .... CR0ABCD		
Internal Component Part# ...		

Create a record for each feature that is used to assemble the end product. Enter the in-house part number in the Component Part Number field and press Enter.

## Bill of Material File

MAINTAIN PART FAMILY BILL OF MATERIAL FILE	
Active status.....	I=Inactive, Blank=Active
Company Number .....	KB
Internal Part Family .....	ABCDE70
Internal Supply Group .....	CR0ABCD
Customer Abbreviation.....	BXCUST (O)
Destination Abbreviation ...	BXDEST (O)
End Part Number .....	BX400
Internal Component Part# ...	9000101-01
Quantity Per Part Family .....	
Customer Part Number .....	9000101-01
Quantity Per Supply Group.....	1
Price Code .....	
User Defined Flag.....	
Change Active Status of Component Part#	Y=Yes, Blank

Customer Component Part Number - Defaults from the Parts Cross Reference File.

Quantity Per Part - Enter the number needed of this component to assemble this end part. This quantity is needed for invoicing.

The Bill of Material file, accessed from the File Maintenance Menu, is used for components of containers. The SPAB Part Bill of Material File, accessed from the Requirement Master header screen, is used for components of parts.

## Price File

Only feature parts require a price record.

## OEM Miscellaneous File

The Process EDI Dock flag must be 'Y' for BMW SPAB.

OEM MISCELLANEOUS INFORMATION MAINTENANCE			
Company Number .....		KB	
OEM Code .....		BX	
Destination Abbrev ...			
Model Year .....		Clear 830s w/ Purpose Codes	
GM Message File .....		Clear 862s w/ Purpose Codes	
GS ASN/UNH DESADV Ver Lvl.		Combine Daily 866s .....	(Y/N)
Next Avail Adjust # .....		Caterpillar Facility Code .	
Use DUNS in ISA/UNB Seg...	(Y/N)	Caterpillar Proprietary ID	
GM DESADV Packaging Info..	(Y/N)	Caterpillar 830 10-10-10...	(Y/N)
Appl Receiver ID ....		IBM Supplier Code.....	
GM Invoice Message File...		Clear Transaction Set including Purchase Order....	
GM Invoice Location Code..		Clear Transaction Set including Release Number....	
GM Duns in ISA/UNB Seg....	(Y/N)	<b>Process EDI Dock..... Y (Y/N)</b>	
GS/UNH Invoice Ver. Lvl...		Direct Supply Contract #...	
F1=Help F12=Return			

## Application Control File Transmission Status Report

This Application Control Record will control the number of days to add and subtract when running the Transmission Status Report. If a user does not have this record, then the default # of days to subtract will be 15 and the number of days to add will be 25.

CO = \*\*

APP Name = \*ALL

Keyword = BMWDAYS

Length = 03

Dec = Blank

Infor Data = ### (first three positions must contain the number of days to subtract)

Customer Data = 03

Customer Data = ### (first three positions must contain the number of days to add)

## Orphaned Records Report

To specify whether a customer is doing business with BMW SPAB and whether the BMW SPAB Orphaned Records report should be run for a company, add the Application Control record "BMWSPAB" to the Application Control File as described below. The record can be set up for a specific company or for all companies with "\*\*". For more information on adding control records, see Chapter 11, System Maintenance, of the AutoRelease Main Manual.

CO = Company or \*\*

APP Name = \*ALL

Keyword = BMWSPAB

Length = 1

Dec = Blank

Infor Data = Y

Keyword: LINE#INCREMENT

Description: Value to increment line numbers

Valid keys: CO, OEM, Cust, Dest, DIV, MY, Other

Entry Fields: Numeric

Valid Entries: integers between 1 - 1000

From the main menu select System Maintenance (option 11), Application Control File Maintenance (option 17), Enhanced Application Control File Maintenance (option 1), Enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*\*"

Customers shipping BMW SPAB requirements must have the same line increment value on the BMW SPAB Packing Slip as on the ASN. The default increment is 10 resulting in line numbers of 10, 20, 30... If any other increment is needed set up the LINE#INCREMENT keyword and enter the increment valued needed.

The following two Application Control File keyword will be used to determine if the BMW SPAB Pack List and/or BMW SPAB Rack Sheet should be run during the shipper print process.

Keyword: RUNFORMS

Description: Run Flags for ArtForm forms without interface

Valid keys: CO, OEM, Other

Entry Fields: Text

Valid Entries for the Other Field:

BMW SPAB PACK LIST

BMW SPAB RACK SHEET

Valid Entries for the Text Field: Y or N

From the main menu select System Maintenance (option 11), Application Control File Maintenance (option 17), Enhanced Application Control File Maintenance (option 1), Enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*"

Enter the values for the Other field

BMW SPAB PACK LIST

BMW SPAB RACK SHEET

Valid Entries for the Text Field: Y or N

The keywords for the BMW SPAB PACK LIST and BMW SPAB RACK SHEET will be issued with a value of 'N'. If you wish to have these forms generate you will need to change the values to 'Y'.

Keyword:    BXTRANSREPORT

BMW SPAB: Define +/- current date for Transmission Reports. The BMW SPAB Transmission Reports select records with a package date less than or equal to yesterday's date. If you wish to use a date other than 'yesterday' set up this keyword. Enter a number from -2 to +2. The program will use this value to subtract or add days to today's date.

For example, if today is 11/15/20XX:

-2 = 11/13/20XX  
-1 = 11/14/20XX  
0 = 11/15/20XX  
1 = 11/16/20XX  
2 = 11/17/20XX

Keyword:    BXTRANSREPORT

Description: Define +/- current date for Transmission Reports

Valid keys:   OEM

Entry Fields: Number

Valid Entries: -2, -1, 0, 1, or 2

From the main menu select System Maintenance (option 11),  
Application Control File Maintenance (option 17),  
Enhanced Application Control File Maintenance (option 1),  
Enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*\*"

Enter the values for the: number

```
VLD0000BXA                      ***Status Report***

                                Date Range

                                From Date... 000000 (MMDDYY)
                                From Time... 0000   (HHMM)
                                Preliminary. N (Y/N)

                                If FROM DATE IS Zero, data with a
                                SWET date less than 005 days and
                                more than 015 days from yesterday
                                will be processed.

F3=Exit   F4=Prompt
```

You have three ways to submit the Transmission Status Reports:



1. From Date & Time fields blank/zeros with Prelim flag 'Y' – This option generates the reports without permanently updating the transaction history file with a report date and time. This allows the report to be re-run.
2. From Date & Time blank/zeros with Prelim flag 'N' – This option generates the reports but permanently updates the transaction history file with a report date and time.
3. From Date & Time contains the date/time of a previous run with Prelim flag 'N' to reprint a previously generated report (if you know the date and time you may enter them, otherwise press F4=Prompt to select for the list).

**NOTE:** Once the transaction history records have been updated with a report date and time the information is no longer available to any future reports. The only way to access the information is to re-run the previous report by using option 3 above.

Three transmission status reports are generated; these reports use a combination of the BMW SPAB Transaction History file and the BMW SPAB Message files. All the information for these reports is based on a date range of -5 thru +15 day from yesterday's date. The supplier may expand or narrow the date range used for these reports by using the Basic Application Control File keyword BMWDAYS to set the number of days before and after yesterday's date. (see the BMW SPAB (BX) Supplement for details).

#### **BMW SPAB Requirement Received (VLR9430BX)**

The BMW SPAB Requirements Receive report lists the number of TOD and SCO orders received with a SWET date that falls within the date range. The report lists the number of TOD and SCO orders due for each date plus those without a date for each part family. The last page contains the summary totals for all Part Families.

#### **BMW Manufacturing SPAB TOD and SCO Processing Report (VLR9435BX)**

The BMW Manufacturing SPAB TOD and SCO Processing report has three sections. The first section lists the highest package ID from the previous finalized report followed by the package ID information for all the TOD, SCO and RO's received between the previous package ID through yesterday's package date (NOTE: The current days' files are not included). The second lists the number of TOD orders received as adds (SEQ+3) and the number of TOD orders that have been changed (SEQ+1). The third lists the number of SCO orders received as adds (SEQ+3) and the number of SCO orders that have been changed (SEQ+1).

#### **BMW Manufacturing SPAB PF Unrecognized (VLR9440BX)**

This report uses a combination of the BMW SPAB transaction history file and the BMW SPAB message file to list the order numbers in error. The following errors are reported.

- TOD Errors:
  - Incorrect #PF/SG
  - Missing PN
  - Extra PN
  - No PO
  - No Del-for
  - Unrecognized PN
  - Incorrect PN combo
  - TOD without SCO
  - PF unrecognized
  - SG unrecognized
  - PN in wrong PF/SG

- SCO Errors:

- Missing PF
- Extra PF
- SCO without original TOD
- Without Seq#
- With Seq# 1st time

Methods to submit the Transmission Status Reports:

There are two ways to submit the Transmission Status Reports.

- Option 8. Transmission Status Report from the BMW SPAB Telecommunications Menu
- Submit/run as part of the Process Requirements job stream if keyword BXAUTOTRNRPT is active in the new enhanced application control file.

The BXAUTOTRNRPT keyword allows the users to set up the Transmission Status reports to run at the end of the Process Requirements job stream. Set up by OEM, the user may set the job to run (Y/N) and set the value of the Preliminary flag (Y/N).

Keyword Definition for BXAUTOTRNRPT:

FUTURE	Enhanced Application Control File Maintenance	10/31/XX
RSDM6011C	Work with detail records	11:46:42
Type options, press Enter.		
1=Select 4=Inactivate 9=Help		Display Inactive: (X)
Keyword: BXAUTOTRNRPT		
<u>CO</u>	<u>OEM</u>	<u>Cust</u>
<u>Dest</u>	<u>DIV</u>	<u>MY</u>
<u>Other key</u>		
Like:	—	
	BX	
	YN	
	Bottom	
F1=ScreenHelp	F3=Exit	F6=Add
		F12=Return/Cancel

Help Text for BXAUTOTRNRPT:

Below is a list of valid values for submitting the Transmission reports during the process.

Enter 'YY' will submit the Transmission reports during the process with Preliminary = Y

Enter 'YN' will submit the Transmission Reports during the process with Preliminary = N

Enter 'NN' will not submit the Transmission reports during the process.

NOTE: The From Date/Time will always be zeros.

## APPENDIX:

## Sample BMW SPAB Requirement Received (VLR9430BX)

-----

USER: FUTURE	BMW-SPAB REQUIREMENTS RECEIVED	PAGE: 1
10/30/XX 14:12	10-25-20XX THRU 11-14-20XX	PRGM: VLR9430BX
	COMPANY B1 - SPAB TEST CO# 2	

-----

PART FAMILY: ABCDEF1		
SWET DATE	TOD	SCO
NO DATE	0	58
10-25-20XX	0	2
10-26-20XX	2	2
10-27-20XX	2	0
10-28-20XX	0	2
10-30-20XX	2	1
11-01-20XX	1	0
11-07-20XX	2	0
11-10-20XX	1	0
11-13-20XX	1	0
TOTAL	11	65
#EXCEPTIONS		
DETECTED	110	1

PAGE: 2  
PRGM: VLR9430BX

		ALL FAMILIES	
SWET DATE	TOD	SCO	
NO DATE	0	58	
10-25-20XX	0	2	
10-26-20XX	2	2	
10-27-20XX	2	0	
10-28-20XX	0	2	
10-30-20XX	2	1	
11-01-20XX	1	0	
11-07-20XX	2	0	
11-10-20XX	1	0	
11-13-20XX	1	0	
TOTAL	11	65	
#EXCEPTIONS			
DETECTED	110	1	

## Sample BMW Manufacturing SPAB TOD and SCO Processing Report (VLR9435BX)

```
-----
USER: FUTURE          BMW MANUFACTURING SPAB TOD AND SCO PROCESSING REPORT          PAGE:          1
10/30/XX  13:53      COMPANY - B1 SPAB TEST CO# 2                                PRGM: VLR9435BX
-----
```

Files Processed Report on OCT 30, 20XX 13:53

LAST TOD or SCO FROM PREVIOUS REPORT:

12345678.101920171648.52 SEQ:52

TODAY'S TODs:

12345678.101920171835.58 SEQ:58

12345678.101920171654.55 SEQ:55

12345678.101920171648.53 SEQ:53

12345678.101920171654.54 SEQ:54

12345678.101920171654.56 SEQ:56

TODAY'S SCOs:

12345678.102020172307.60 SEQ:60

12345678.102320171816.62 SEQ:62

12345678.101920171817.57 SEQ:57

12345678.101920172329.59 SEQ:59

12345678.102220170540.61 SEQ:61

TODAY'S REORDERs:

\*\* NO REORDER RECEIVED \*\*

```
-----
USER: FUTURE          BMW MANUFACTURING SPAB TOD AND SCO PROCESSING REPORT          PAGE:          2
10/30/XX  13:53      COMPANY - B1 SPAB TEST CO# 2                                PRGM: VLR9435BX
-----
```

Files Processed Report on OCT 30, 20XX 13:53

Added TODs

-----  
Parts Family Objects Processed

-----  
ABCDEF1 ADDED 00000

Changed TODs

-----  
Parts Family Objects Processed

-----  
ABCDEF1 CHANGED 00021

-----  
USER: FUTURE                      BMW MANUFACTURING SPAB TOD AND SCO PROCESSING REPORT                      PAGE:                      3  
10/30/XX 13:53                      COMPANY - B1 SPAB TEST CO# 2                      PRGM: VLR9435BX

Files Processed Report on OCT 30, 20XX 13:53

Added SCOs

-----  
Parts Family   Objects   Processed  
-----

ABCDEF1            ADDED            00000

Changed SCOs

-----  
Parts Family   Objects   Processed  
-----

ABCDEF1            CHANGED           00008

**Sample BMW Manufacturing SPAB PF Unrecognized (VLR9440BX)**

```
-----
USER: FUTURE                      BMW MANUFACTURING SPAB PF UNRECOGNIZED          PAGE: 1
10/30/XX 14:13                   COMPANY - B1 SPAB TEST CO# 2          PRGM:VLR9440BX
                                10-25-20XX THRU 11-14-20XX
-----
```

TOD Errors (-5 +15 week day range)

```
-----
|      |      |      Error      |      File Date |      Est Assy-on |      Est Assy-on |      |
| Order# | File Type | Description | (header | Date | Date/Time | Remarks |
|      |      |      | level) | (TOD) | (SI) |      |
-----
|      | TOD | Incorrect #PF/SG |      |      |      |      |
-----
|      | TOD | Missing PN |      |      |      |      |
-----
| 1121537 | TOD | Extra PN | 20XX-10-19 | 20XX-11-01 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1121537 | TOD | Extra PN | 20XX-10-19 | 20XX-11-01 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1121537 | TOD | Extra PN | 20XX-10-19 | 20XX-11-01 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1138952 | TOD | Extra PN | 20XX-10-19 | 20XX-10-30 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1138952 | TOD | Extra PN | 20XX-10-19 | 20XX-10-30 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1138952 | TOD | Extra PN | 20XX-10-19 | 20XX-10-30 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1121537 | TOD | No PO | 20XX-08-24 | 20XX-11-01 |      | PF:ABCDEF1 |
-----
| 1138951 | TOD | No PO | 20XX-08-23 | 20XX-10-11 |      | PF:ABCDEF1 |
-----
```



```
-----
USER: FUTURE                      BMW MANUFACTURING SPAB PF UNRECOGNIZED          PAGE:      2
10/30/XX  14:13                  COMPANY - B1 KAREN'S SPAB TEST CO# 2          PRGM:VLR9440BX
                                10-25-20XX THRU 11-14-20XX
-----
```

## TOD Errors (-5 +15 week day range)

```
-----
|      |      |      Error      |      File Date |      Est Assy-on |      Est Assy-on |      |
| Order# | File Type | Description | (header | Date | Date/Time | Remarks |
|      |      |      | level) | (TOD) | (SI) |      |
-----
| 1138977 | TOD | No PO | 20XX-08-23 | 20XX-10-11 |      | PF:ABCDEF1 |
-----
| 1121537 | TOD | No Del-for | 20XX-08-24 | 20XX-11-01 |      | PF:ABCDEF1 |
-----
| 1138952 | TOD | No Del-for | 20XX-10-19 | 20XX-11-01 |      | PF:ABCDEF1 |
-----
| 1138976 | TOD | No Del-for | 20XX-08-24 | 20XX-11-01 |      | PF:ABCDEF1 |
-----
|      | TOD | Unrecognized PN |      |      |      |      |
-----
|      | TOD | Incorrect PN |      |      |      |      |
|      |      | combo |      |      |      |      |
-----
| 1121322 | TOD | TOD without SCO | 20XX-08-23 | 20XX-10-11 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
| 1138951 | TOD | TOD without SCO | 20XX-08-23 | 20XX-10-11 |      | PF:ABCDEF1 |
|      |      |      |      |      |      |      | SG:ZYXWVU1 |
-----
|      | TOD | PF unrecognized |      |      |      |      |
-----
|      | TOD | SG unrecognized |      |      |      |      |
-----
|      | TOD | PN in wrong |      |      |      |      |
|      |      | PF/SG |      |      |      |      |
-----
```

```
-----
USER: FUTURE                      BMW MANUFACTURING SPAB PF UNRECOGNIZED          PAGE:          3
10/30/XX  14:13                  COMPANY - B1 SPAB TEST CO# 2          PRGM:VLR9440BX
                                   10-25-20XX THRU 11-14-20XX
-----
```

## SCO Errors (-5 +15 day range)

```
-----
|      |      |      Error      |  File Date |  Est Assy-on |  Est Assy-on |      |
| Order# | File Type | Description | (header | Date | Date/Time | Remarks |
|      |      |      | level) | (TOD) | (SI) |      |
-----
|      | SCO | Missing PF |      |      |      |      |
-----
|      | SCO | Extra PF |      |      |      |      |
-----
|      | SCO | SCO without |      |      |      |      |
|      |      | original TOD |      |      |      |      |
-----
| 1122553 | SCO | Without Seq# | 20XX-08-24 | 20XX-11-01 |      | PF:ABCDEF1 |
-----
| 1121537 | SCO | With Seq# 1st | 20XX-10-23 | 20XX-11-01 | 20XX-10-30 | PF:ABCDEF1 |
|      |      | time |      |      |      | 2316 |
-----
```

To use the BMW SPAB (BX) Packing List and Rack Sheet you need the following setups:

1. Set up the three keywords described above.
2. Create Rack IDs using the Rack Set ID maintenance  
(Opt 12 from the Additional File Maintenance Menu).
3. Maintain the BMW SPAB (BX) Requirement Masters:
  - a) Place ILVS in the OEM Division
  - b) Enter the Rack ID that will be used
  - c) Set the package quantity for all features and end parts to match the quantity as the rack quantity.
  - d) Set the 'Ignore STD PAK for Load/MRP Build' to 'Y'

## 2017 Upgrade

The 2017 upgrade to the BMW SPAB module added the BMW SPAB Pack List and the Rack Sheet along with the Rack Sequence Number logic. Keyword 'STANDARDDBX' will be used to implement these new processes.

### STANDARDDBX

STANDARDDBX will be used anywhere there are differences between the original version and the current version of the BMW SPAB (BX) module.

Keyword: STANDARDDBX

Description: Use BMW SPAB Standard Practices

Valid keys: CO, OEM, Cust, Dest, DIV, MY

Entry Fields: Text

Valid Entries: Y or N

From the main menu select System Maintenance (option 11), Application Control File Maintenance (option 17), Enhanced Application Control File Maintenance (option 1), enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*"

Enter 'Y' in the Text field if you implemented BMW SPAB AFTER 2016, otherwise enter 'N'.

## RUNFORMS

If you wish to have these forms generate you will need to change the values to 'Y'. To use the BMW SPAB (BX) Packing List and Rack Sheet you need the following setups:

1. Set up the three keywords
2. Create Rack IDs using the Rack Set ID maintenance  
(Opt 12 from the Additional File Maintenance Menu)
3. Maintain the BMW SPAB (BX) Requirement Masters:
  - a) Place ILVS in the OEM Division
  - b) Enter the Rack ID that will be used
  - c) Set the package quantity for all features and end parts to match the quantity as the rack quantity
  - d) Set the 'Ignore STD PAK for Load/MRP Build' to 'Y'

RUNFORMS acts like the interface run flags. It will be used for ArtForm forms created by RPGLE programs. Currently this keyword will be used for the BMW SPAB Pack List and BMW SPAB Rack Sheet only.

Customers shipping BMW SPAB requirements must have the same line increment value on the BMW SPAB Packing Slip as on the ASN. The default increment is 10 resulting in line numbers of 10, 20, 30... If any other increment is needed, set up the LINE#INCREMENT keyword and enter the increment valued needed.

The following two Application Control File keywords will be used to determine if the BMW SPAB Pack List and/or BMW SPAB Rack Sheet should be run during the shipper print process.

Keyword: RUNFORMS

Description: Run Flags for ArtForm forms without interface

Valid keys: CO, OEM, Other

Entry Fields: Text

Valid Entries for the Other Field:

BMW SPAB PACK LIST

BMW SPAB RACK SHEET

Valid Entries for the Text Field: Y or N

From the main menu select System Maintenance (option 11), Application Control File Maintenance (option 17), Enhanced Application Control File Maintenance (option 1), enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*"

Enter the values for the Other field

BMW SPAB PACK LIST

BMW SPAB RACK SHEET

Valid Entries for the Text Field: Y or N

The keywords for the BMW SPAB PACK LIST and BMW SPAB RACK SHEET will be issued with a value of 'N'. If you wish to have these forms generate you will need to change the values to 'Y'.

## **LINE#INCREMENT**

LINE#INCREMENT will be used by the BWM SPAB Pack List and ASN to create the line number. The line numbers must match between these two documents. This keyword should be used when different line increments are needed between suppliers. This was originally added for BMW SPAB to increment the line number on the packing slip and ASN. This new keyword is flexible so it can be used for any OEM or process where the increment value is different between supplier, company, OEM, etc...

Keyword: LINE#INCREMENT

Description: Value to increment line numbers

Valid keys: CO, OEM, Cust, Dest, DIV, MY, Other

Entry Fields: Numeric

Valid Entries: integers between 1 - 1000

From the main menu select System Maintenance (option 11), Application Control File Maintenance (option 17), Enhanced Application Control File Maintenance (option 1), enter the keyword into the position to field and select with a 1.

Find your entry or F6 to add a new entry.

Fill in the keys with a value or a wild "\*\*"

## **Process Option**

End parts are processed into the Requirement and the Load Files. Only end parts are displayed on the shipper parts selection screen and only end parts are typically printed on the Load Sheet. However, there is a Load Sheet selection field to print component parts, as well. Requirement history records are created for end parts.

## **Shipper Print**

End parts print on shippers, pool bills, and export documents. The number of feature parts for each end part is listed on the shipper

## **ASN Extract**

Only base and end parts are added to the ASN File. Features are added to the Invoice File. Shipping History is updated for feature and end parts. Lot/Location History is updated for base, feature, and end parts. Shipping CUMs are updated for feature and end parts.

## **Reports**

The Gross Requirements Report Schedule and the Load Sheet have selection fields to print data for component parts.

## Shipper Maintenance

The original sort for the BMW SPAB data when creating/maintaining shippers is by sequence # (rather than by part number, which is the common sort).

RSDM1000D		CREATE SHIPPER/BILL OF LADING				Status	Ship
Co/Cust DG BXCUST							
Dest BXDEST		Position to Sequence#					
Options: 1=Select 4=Delete 9=Ship As-Is						Sorted by	
Seq#/Ord#							
Opt	Part Number	MY	Trn	Req Date / Time	Pkg Qty Required	BC VR	Sequence Number
	I7051957		866	4/12/XX	1		
	I7051958		866	4/12/XX	1		
	I7167083		866	4/12/XX	1		
	I8041215		866	4/12/XX	1		
	I8041310		866	4/12/XX	1		
	I7051957		866	2/21/XX 4:04a	1	0000405194	
	I7051958		866	2/21/XX 4:04a	1	0000405194	
	I7167083		866	2/21/XX 4:04a	1	0000405194	
	I8041215		866	2/21/XX 4:04a	1	0000405194	
	I8041310		866	2/21/XX 4:04a	1	0000405194	
	I7051957		866	2/21/XX 4:04a	1	20712117	
	I7051958		866	2/21/XX 4:04a	1	20712117	
More...							
F5=Create F6=Add Part F7=Alt View F8=Ovr Values F9=Auto Shp As Is							
F11=Chg Req Sel F12=Return F13=Net F14=Com/Chrgs F15=Sort Reqmnts							

When users press F7 to show the “drop-down” information for BMW SPAB, they will be able to view their Call-Off#, Part Family and Supplier Group.

RSDM1000D		CREATE SHIPPER/BILL OF LADING		Status	Ship
Co/Cust	DG BXCUST				
Dest	BXDEST	Position to Sequence#			
Options: 1=Select 4=Delete 9=Ship As-Is				Sorted by	
Seq#/Ord#					
Opt	Part Number	MY	Trn	Req Date / Time	Pkg Qty BC Required VR Sequence Number
	I6970700		866	4/12/XX	1
	Cust Part: 6970700		Rel #:		Plan#:
0000	Ord No: 60133421		PO Line#:		VIN #:
	CALLOFF:		PF/SG:STFKB85F/STFHIK8F		
	I7051957		866	4/12/XX	1
	Cust Part: 7051957		Rel #:		Plan#:
0000	Ord No: 60133421		PO Line#:		VIN #:
	CALLOFF:		PF/SG:STFKB85F/STFVOK8F		
	I7051958		866	4/12/XX	1
	Cust Part: 7051958		Rel #:		Plan#:
0000	Ord No: 60133421		PO Line#:		VIN #:
	CALLOFF:		PF/SG:STFKB85F/STFVOK8F		
More...					
F5=Create F6=Add Part F7=Alt View F8=Ovr Values F9=Auto Shp As Is					
F11=Chg Req Sel F12=Return F13=Net F14=Com/Chrgs F15=Sort Reqmnts					

## VL0 Menu

12.0	1/14/XX	MENU: VL0BX	13:44:01
-----			
BMW MANUFACTURING SPAB			
VARIABLE LENGTH TELECOMMUNICATIONS			
-----			
1. Receive Data	10. Reprocess Errors by Company		
2. Split Network Data Into OEM Files	11. Print Purchase Inquiry List		
3. Breakdown Data	12. Payment History Menu		
4. Acknowledge Received Data	13. Purge Transmission History		
5. Print Requirements (830 866)	14. Missing Sequence# Report		
6. Print Acknowledgements (997)	15. Transmission Inquiry		
7. Process Requirements (830 866)	16. File Archiving Menu		
8. Transmission Status Report	17. Hold File Inquiry		
9. Error File Inquiry	18. Message File Inquiry		

Many options are identical from trading partner to trading partner. Those options are explained in the AutoRelease Manual. Only options unique to this trading partner, exceptions, or unique business practices are explained in this document.

## Print Method

Print Method: Optional

BMW SPAB is coded to use the optional "Print" method, which affects the Breakdown, Print, and Process options.

The Print option prints details of the TOD, SCO and reorders.

## Print Requirements (830, 862, 866)

(Option 5 on the VL0 menu)

The Print Requirements option prints TOD and SCO requirements.

## BMW SPAB Production Sequence Edit List

This report is placed on hold. The Edit Report contains all 866 requirements received, exactly as received from the OEM. The data is not rounded to a package quantity and it does not report ahead or behind quantities. This list is not intended to be used as a Load Sheet.

## Additional Reports During Breakdown

### Error Report for BMW SPAB Production Sequence Edit List

The Error Report lists errors or omissions in the 866 file. The following lists errors encountered during the Breakdown:

- PF unrecognized - Invalid Part Family or Part Family not set up in the Bill of Material File.
- SG unrecognized - Invalid Supply Group or Supply Group not set up in the Bill of Material File.
- Incorrect PF/SG combo - Combination of Part Family and Supply Group not set up in the Bill of Material File.
- Missing Part Number - The BOM sent in the TOD matches a BOM set up in the Bill of Material File, except for one extra part in the Bill of Material File.
- Extra Part Number - The BOM sent in the TOD matches a BOM set up in the Bill of Material File, except for one extra part in the EDI file.
- Incorrect PN Combination - All parts sent in the EDI file for a TOD are valid parts for Part Family and Supply Group, but there is no BOM set up for that combination.
- PN in wrong PF/SG - Part sent in the TOD file is a valid part, but does not belong to the Part Family/Supply Group sent in the file.
- Unrecognized PN - Part number not set up either in the Parts Cross Reference or in the Requirement Master File.
- File sequence# prior to - All records added to Error File--Sequence Number lower than the highest sequence# on file: highest one in the file.
- No TOD records on file - When matching TOD is not found for the SCO being sent for this order/part family.



- Supply Group not on - On a reorder, Supply Group not found in Shipping History File, Shipping History File: which is required for processing reorders.
- Family/Supply Group does not - On a delete file, matching Part Family/Supply Group records not have requirements for deletion found in Requirements File to delete.
- This order contains parts that - On a Reorder with Line Items, part number being sent not found were not sent on original Order# in the BOM of the original order.
- This Reorder Order# has records - Reorder cannot be processed because the original Order in Error Basket Number was found in the Error Basket.
- This Reorder Order# has records - Reorder cannot be processed because the original Order in Requirement Master Number was found in the Requirement Master.
- This order contains an extra part - The SCO has a Part Family that was not sent on the original Family not sent on original Order# order.
- This order does not contain a - The SCO does not have a sequence number sequence number.

## Transmission Status Report

The Transmission Status Report lists the number of orders received by Part Family and Supply Group within the specified date range. It also lists all the errors encountered in a TOD, SCO, or reorder. A table of the number of TODs, SCOs, and reorders received on a current day is also printed. This data is copied into file BXRPTFILE, so it can be e-mailed to BMW. This file is cleared before every run.

## Error File Inquiry

BMW requires that any errors encountered during the Breakdown be written to a User Basket that can be viewed and then processed. The Error File Inquiry allows users to view the records that could not be processed because they had errors.

## Re-Process Errors by Company

Users can choose to re-process files in the Error Basket by the Package ID range, which is sent in the UNB segment.

## Print Purchase Order Inquiry

This option allows a user to check the status of a Supply Group within a Part Family for a particular order number. If only the order number is specified, statuses are printed for each Supply Group within each Part Family for that order number.

Following are the various statuses that can be printed for the order number:

- ASN SENT ITEM SHIPPED - Purchase Order/Part Family/Supply Group was found in the ASN file with a status of "T" for "transmitted."
- ASN EXTRACTED - Purchase Order/Part Family/Supply Group was found in the ASN file with a status of "O" for "open" (not yet transmitted).

- SHIPPER READY TO BE EXTRACED - Purchase Order/Part Family/Supply Group was found in the Shipper file with a status of "E10," indicating the shipper has been printed but not yet extracted. SHIPPER CREATE - Shipper has been created for Purchase Order/Part Family/Supply Group.
- SCO RECEIVED - Call-off Requirements have been processed for Purchase Order/Part Family/Supply Group.
- TOD RECEIVED - TOD Requirements have been processed for Purchase Order/Part Family/Supply Group. Call-off Requirements have not been received for Purchase Order/Part Family/Supply Group.
- REORDERS RECEIVED - Reorder Requirements have been processed for Purchase Order/Part Family/Supply Group.
- PONO IN USER BASKET - Purchase Order had some errors and could not be processed.
- REPROCESS

## Missing Sequence Number Report

This report prints all the missing sequence numbers within a specified date range.

## Process Requirements (830, 862, 866)

(Option 7 on the VL0 menu)

### Shift Exception - 866s

Requirements are not Shifted. When shipped against during the Extract, the requirement net quantity is reduced by the quantity shipped and the CUM required is increased by the quantity shipped. If fully shipped, the requirement is removed during the Extract.

### Shift Exception - 866 Feature and End Parts

BMW SPAB 866 requirements for feature and end parts are not shifted. When shipped against, the requirement quantity is reduced by the quantity shipped. If fully shipped, the requirement is removed during "Extract." The CUM required prior is set to equal the CUM shipped.

# ASNS

```
VLD8000BX1      1/14/XX      MENU: VL8BX      13:49:35
12.0      -----
              BMW SPAB ADVANCED SHIPPING NOTIFICATIONS
              -----

1.  Maintain ASNs              7.  List Printed Bar Code Labels
2.  List ASNs                  8.  Create and Transmit ASNs
3.  Upload / Convert Bar Code Data  9.  Purge Printed Bar Code Labels
4.  Maintain Bar Code Data      10. Purge Transmitted ASNs/Bar Code Data
5.  Maintain Printed Bar Code Labels 11. Reactivate Transmitted ASNs/Bar Code
6.  List Bar Code Data

                23.  Return to V/L Advanced Shipping Notifications
                24.  Return to Main Menu

                        Option
```

Traditionally coded trading partners use a VL8xx menu (where “xx” is the OEM code) to transmit ASNs to the trading partner. Many options are identical from trading partner to trading partner. Those options are explained in the AutoRelease Manual. Only options unique to this trading partner, exceptions, or unique business practices are explained in this document.

See the How to Use this Document section for organizational details about AutoRelease and trading partner documents.

## Maintain ASNs

(Option 1 on the VL8 menu)

### ASN Maintenance Screen

VLD8100BX1		ASN MAINTENANCE MENU			
Company DG	Sequence number	588	OEM BX	ASN C	Action Code O
Ship (BOL) #..	351	In-House Part #	I4367336		U of M ... EA
Ship Date ..	922XX	Customer Part #	4367336		
Ship Time	746	Ret Container .	Y (Y/N)		
Cust Abbrev. BXCUST		EDI Plant	.....		
Dest Abbrev. BXDEST		Plant ID.....	0010055910		
Dock .....		Destination #..	BMWG BMWG02		
Qty Shp ....	1	Container Qty .	1	Container Desc .	RCK25
Cum Ship ...	1	Net Weight ....	123	Carrier Abbrev..	CARR
Arrival Date		Tare Weight ...	100		
Arrival Time		Carrier #/Name.	CARRIER		
Conv Code .. M		Sequence #.....	0000405194		
Conv Bill .. 000351		Order Number...	60133421		
Part Family STFKB85F		QM Number#.....			
Supply Group STFHIK8F		Pro Number ....			
Call Off No.		Cust Cont # ..	RCK25		
F10=Delete F12=Return					

Company - Displays the company number that was previously entered.

Sequence Number - Assigned by the system.

OEM - "BX" for BMW SPAB.

ASN - Defaults from the Destination File. The ASN code can be changed at shipper entry time. BMW SPAB uses the ASN code "V" for variable length without bar code or "C" for variable length with bar code.

Action Code - The action code places the corresponding two-digit code in the BSN 01 segment in the ASN file. The following are valid action codes:

- O - Original 00
- H - Hold record is not included in transmission

Many fields on the ASN screen default from various master files. However, most of them can be changed at shipper entry time.

Ship (BOL) # - Shipper number assigned by the system when the shipper was created.

Note: If the Conveyance Code is "TL" (Trailer), a TD3 segment is required. If no trailer number was entered, the shipper number is used.

- In-House Part # - Internal part number entered in the Parts Cross Reference File.
- U of M - Defaults from ASN Unit of Measure field in the Destination File. It can be changed at shipper entry time.
- Ship Date - Date of shipment in the MMDDYY format. Defaults from shipper entry time.
- Customer Part # - BMW SPAB's part number.
- Ship Time - Time entered at shipper entry time (HHMM) in military format. If no time was entered, the ship time defaults from the system time when the "Extract" option is taken.
- Ret Container (Y/N) - Defaults from Requirement A record. It may be changed at shipper time.
- Cust Abbrev - User-assigned abbreviation that must be entered in the Machine Readable File to return the correct customer code in the ASN File.
- Dest Abbrev - User-assigned abbreviation that must be entered in the Machine Readable File to return the correct destination code in the ASN File.
- Plant ID - Supplier code assigned by BMW SPAB. This is entered in the Supplier Code field in the Requirement File and the Plant ID field in the Identification Code File.
- Dock - Not used by BMW SPAB, at this time.
- Destination # - Defaults from the Requirement Master's destination DUNS from the OEM Info screen (F7).
- Qty Shp - Number of pieces shipped.
- Container Qty - The number of containers, which is calculated by dividing the quantity shipped by the package quantity entered in the Requirement A record. It can be changed at shipper entry time.
- Container Desc - Container description must be a valid AIAG standard description consisting of three alpha characters followed by two numeric characters. This defaults from the Container File. The container code can be changed at shipper entry time.
- CUM Ship - The total number of parts shipped this model year.
- Net Weight - Total weight of parts, calculated by multiplying the quantity shipped times the net weight per part entered in the Parts Cross Reference File. It can be changed at shipper entry time.
- Carrier Abbrev - Carrier Abbreviation (SCAC Code), which defaults from the Carrier Abbreviation field in the Carrier Master File.
- Arrival Date - Estimated arrival date at the final destination. May be maintained by supplier on shipper header screen or on ASN maintenance screen.
- Tare Weight - The weight of the container(s), which is calculated based on the container and pallet weights entered in the Container File. The tare weight can be changed at shipper entry time.

- Arrival Time - Estimated arrival time at the final destination.

Conv Code - AIAG standard code, which describes the method of conveyance. Defaults from the Carrier File. It can be changed at shipper entry time. Valid Conveyance Codes include the following:

- 01 - Road
- 02 - Train
- 03 - Sea
- 04 - Inland Waterways
- 05 - Air
- 06 - Postal Service
- Seq # / QM # - Required field for reorder. The QM Number will be sent via 900 TOD.

Conv Bill - Defaults from the Conveyance Number field at shipper entry time if a trailer number or air freight number was entered. If there was no entry at that time, the shipper number will default.

Order Number - Order number issued by BMW SPAB. Defaults from the Requirement B record.

Part Family - Sent in the TOD; groups closely linked parts. The value is stored in F3B152.

Carrier #/Name - Optional 8-digit carrier number that is stored in positions one through eight of the Carrier Name field in the Carrier File.

Supply Group - Further defines a subcategory under a Part Family. It will contain multiple part numbers. This value is stored in F3B153.

PRO Number - The PRO Number is not used by BMW SPAB, at this time.

Call Off No. - Number transmitted by SPAB SCO DELJIT indicating which parts to ship to BMW. This value is stored in the RANNO field.

Cust Cont # - Defaults from the Customer Container Number field in the Container File.

## How to Use This Document

This document provides information regarding unique instructions required to implement this trading partner's unique business practices. Check the chapters in AutoRelease that describe the common functions and procedures performed by all trading partners, such as the daily procedures, security, ASN options, etc.

### General Information

The general information section of this document describes transaction sets and versions, how they apply to this trading partner and other miscellaneous information.

### Security

The security section of the document explains the Advanced Communication Module (ACM).

### Implementation

The trading partner documents provide information that may be pertinent only to this trading partner. The implementation section covers master file entry that is unique to this trading partner. However, all required master files must be entered according to the instructions in the "AutoRelease User's Manual."

Files and fields that are unique for all trading partners include the Identification Code File, Trading Partnership File, model year, Requirement Master clear flags and CUM required prior.

### VL0 Menu

Traditionally coded trading partners use a VL0xx menu (where xx is the OEM code) to perform daily procedures (from the "Receive" through the "Process"). Many of the options on the VL0 menus are identical from trading partner to trading partner. Those options are explained one time only in the AutoRelease manual.

Daily Procedures	Describes the Receive, Split, Breakdown, Print, Process, and Transmit 997
Security	Describes all security selection and maintenance options and VAN menus

The VL0 section of each trading partner document illustrates the menu for this specific trading partner, but describes ONLY exceptions and unique business practices such as:

- The print method (mandatory or optional) is identified.
- Special processing for a common option for this specific OEM is identified.
- Fields that print on the edit list but are not processed are identified.
- Options that are not commonly used by other trading partners are described in detail.

A complete description of the common options can be found in the Daily Procedures chapter of AutoRelease.

## ASNs

Traditionally coded trading partners use a VL8xx menu (where “xx” is the OEM code) to transmit ASNs to the trading partner. Many of the options on the VL8 menus are identical from trading partner to trading partner. Those options are explained one time only in the AutoRelease Manual.

ASN (VL8) Options	Describes the standard procedures for transmitting ASNs without bar code.
ASN with Bar Code Options	Describes the standard procedures for transmitting ASNs with bar code.

The VL8 section of each trading partner document illustrates the menu for this specific trading partner, but describes ONLY exceptions and unique business practices such as:

- Valid action codes are identified.
- The ASN Maintenance screen displays with valid field descriptions.
- ASN extract exceptions and special processing relating to ASNs for this specific trading partner are identified.
- Options that are not commonly used by other trading partners are described in detail.

A complete description of the routine options can be found in the ASN (VL8) Options chapter of AutoRelease.

## Electronic Invoice Menu

Some traditionally coded trading partners use a VL75xx menu (where xx is the OEM code) to transmit electronic invoices to the trading partner. Many of the options are identical from trading partner to trading partner. Those options are explained one time in the AutoRelease Manual.

Electronic Invoices	Describes invoice maintenance, print invoice register, create and transmit, purge, and reactivate transmitted invoices menu options.
---------------------	--

The VL75 section of each trading partner document illustrates the menu for this specific trading partner, but describes ONLY exceptions and unique business practices such as:

- Invoice header screen and valid field descriptions
- Invoice line item screen
- Invoice line item information screen and valid field descriptions
- Miscellaneous charge screen and valid field descriptions
- Options that are not commonly used by other trading partners are described in detail

A complete description of the common options can be found in the Electronic Invoices chapter of AutoRelease.