

98. GETLIST BOM - REVISION 002

98.0 Overview

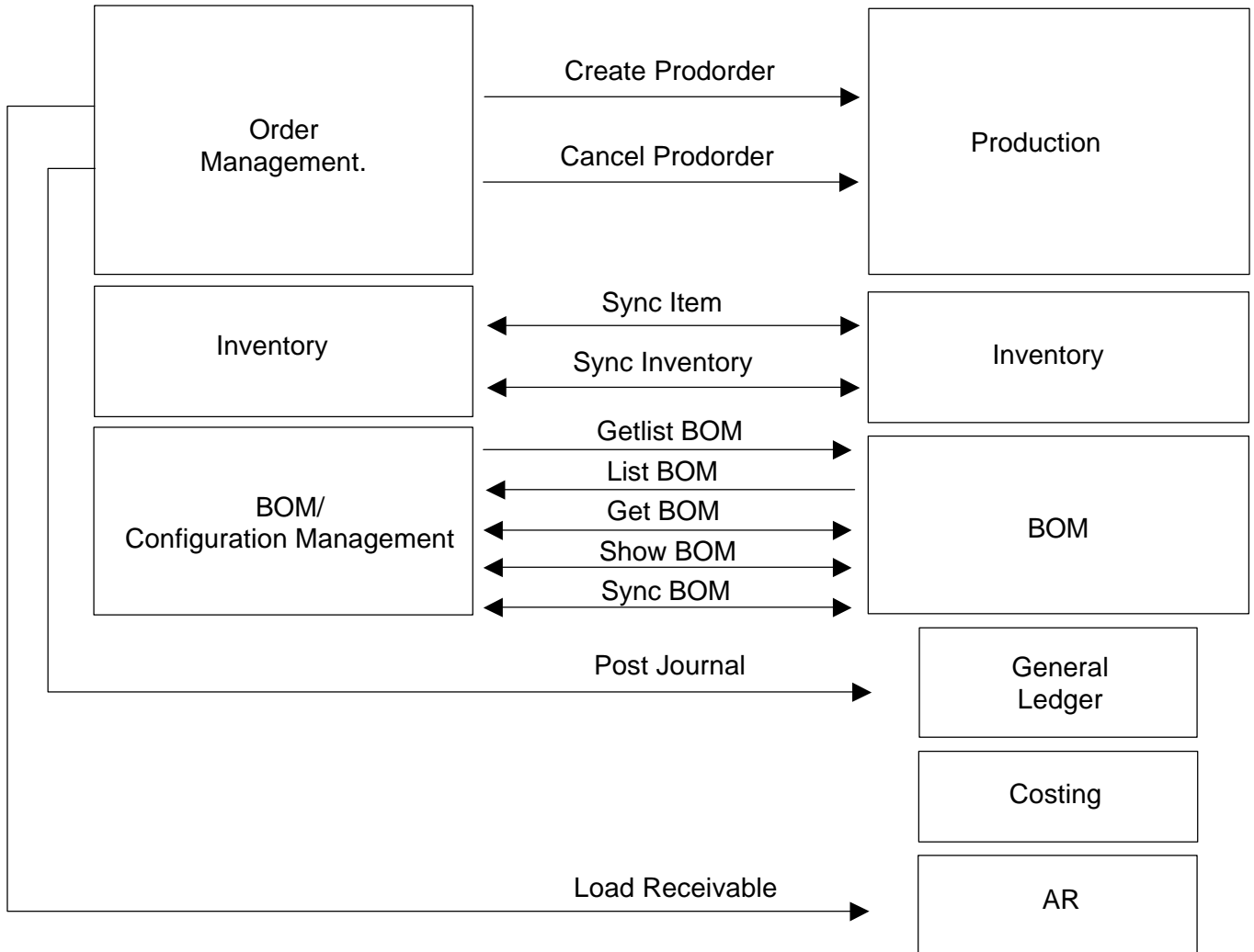
This chapter describes the Business Service Request named GETLIST BOM, the Verb being GETLIST and the Noun being BOM. BOM stands for Bill of Material. The environment for this BSR can be within the enterprise or outside the enterprise.

The purpose of the GETLIST BOM Business Service Request is to enable an application or component to request a summary list of Bill of Material information from another business application or component. The response to the GETLIST BOM is the LIST BOM.

The GETLIST BOM also enables the retrieval of information across several documents by using selection fields. An example of this could be requesting all Bills of Material for a specific ITEM. This type of functionality is limited to the capabilities of the responding application and needs to be determined during the implementation project.

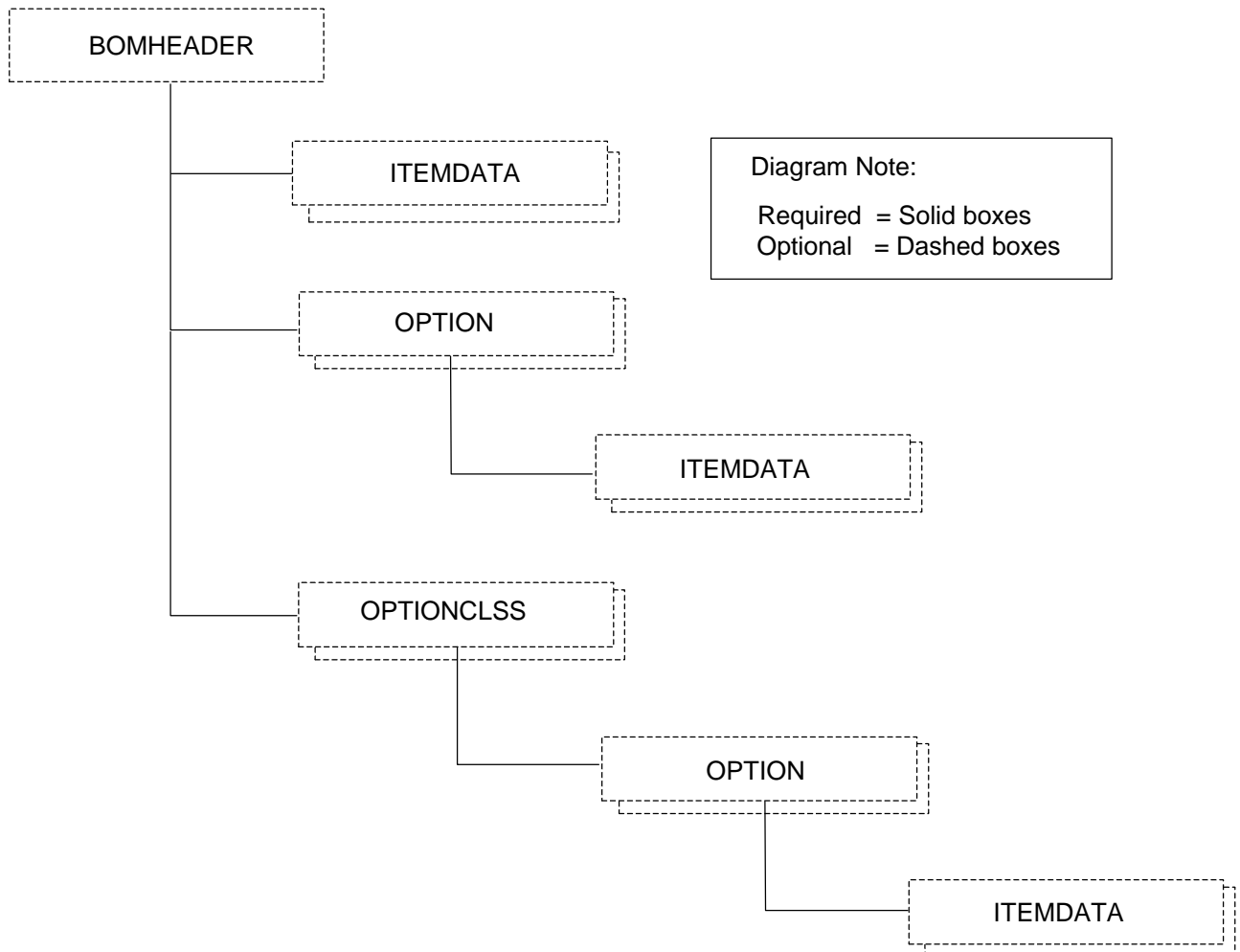
There are many possible business applications in several environments that may use this capability. For example, an MRP, Inventory, or Manufacturing business application could use this to communicate Item Bill of Material information.

This BSR does not usually cause updates to occur. It may be used as part of a large integration scenario or as a single tool for requesting information for a listing of existing Bills of Material. The picture below visualizes one possible use of this BSR.



98.1 Getlist BOM

The GETLIST BOM Business Object Document consists of the following components:



The Business Service Request GETLIST BOM uses the following Data Types:

1. **BOMHEADER** - Information that generally describes the Bill of Material Structure and its contents. This Data Type is optional.
2. **ITEMDATA** - Information that describes the attributes of a specific item. This Data Type is optional.
3. **OPTION** - Information that describes the attributes of a specific OPTION for an ITEM. This Data Type is optional.

4. **OPTIONCLSS** - Information that describes the class of OPTION for a particular Product or Item. This Data Type is optional.

Processing Notes:

The BOMHEADER and the ITEMDATA Data Types and the Field Identifiers contained in them may be used to select desired information in this BOD. This is done by requesting specific Field Identifiers within the Data Type.

The OPTIONCLSS and OPTION data types may not be used for selecting specific fields. If either of these Data Types are included in this GETLIST, they are to be coded in the meta data by including the Data Type identifier, zero occurrences, and no Field Identifiers.

In general, if a Data Type is not using Field Identifiers to select information, but the data within a Data Type is requested to be returned, the Data Type is coded without any Field Identifiers and with zero occurrences in the meta data part of the BOD. This will signify to the responding application that all of the data that corresponds to that Data Type is to be included in the response.

The Field Identifiers within each Data Type are included in this chapter to clarify what data may be returned or as options for selecting information.

Under some circumstances, the hierarchy of Data Types may be bypassed in this BSR. An example of this is requesting all Bills of Material containing a specific ITEM. In this case the Data Type may be sent with a GETLIST request without any accompanying Data Types such as the BOMHEADER.

98.2 BOMHEADER

The Data Type, "**BOMHEADER**", is the first Data Type the Business Service Request "**GETLIST BOM**" uses.

The fields in this Data Type may be used either for selecting the data required or as an example of what data may be returned in the LIST BOM response.

Listed are all the Field Identifiers and Segments that are valid for use within the BOMHEADER Data Type. The first column of the table indicates the name. Segment names also include the Qualifier in parenthesis.

The second column indicates in which OAGIS Appendix the data is described, basically if the data is a Field Identifier or a Segment. Details of the Field Identifiers can be located in Appendix C, and details of the Segments can be located in Appendix D.

There are no required fields for the BOMHEADER..

OPTIONAL BOMHEADER DATA	
NAME	APPENDIX
BOMALTID	C
BOMID	C
BOMNAME	C
BOMREVISION	C
BOMSTATUS	C
BOMTYPE	C
BOMUSAGE	C
DATETIME(EFFECTIVE)	D
DATETIME(EXECSTART)	D
DATETIME(EXPIRATION)	D
ITEM	C
ITEMRV	C
PROPERTY1 - PROPERTY99	C
TRAKNGFLAG	C
USERAREA	C

Processing Note:

This BOD enables range selections. This is accomplished by including two separate occurrences of a Field Identifier. The first occurrence is the "FROM" selection and the second, or duplicate Field Identifier is the "TO" in the range to be selected.

If a second Field Identifier is not included, the selection will continue until the data no longer applies to the selection or the MAXITEMS is reached.

In all cases where range selections are used, the solution set to be returned will include through the "TO" field. This is sometimes known as an "inclusive" range selection.

If you need the MAXITEMS capability for a particular request, you must send the BOMHEADER Data Type, even if you do not need it for data selection.

98.3 ITEMDATA

The Data Type “**ITEMDATA**” describes a particular ITEM within a product or Bill of Material structure. The ITEMDATA is an optional Data Type.

The fields in this Data Type may be used either for selecting the data required or as an example of what data may be returned in the LIST BOM response.

Listed are all the Field Identifiers and Segments that are valid for use within the ITEMDATA Data Type. There are no required fields for ITEMDATA.

OPTIONAL ITEMDATA DATA	
NAME	APPENDIX
CONSUMPTN	C
DATETIME(EFFECTIVE)	D
DATETIME(EXECFINISH)	D
DATETIME(EXECSTART)	D
DESCRIPTN	C
FIXDQTYIND	C
ITEM	C
ITEMRV	C
ITEMTYPE	C
LOTLEVEL1 - LOTLEVEL2	C
NOTES	C
OPERATNID	C
OPERATNSEQ	C
PROPERTY1 - PROPERTY99	C
QUANTITY(ITEM)	D
QUANTITY(LDTMOFFSET)	D
QUANTITY(LOTSIZEMAX)	D
QUANTITY(LOTSIZEMIN)	D
QUANTITY(LOTSIZEMLT)	D
QUANTITY(PERCENTREQ)	D
REPRTGFLAG	C
SCRAP	C
SERIALNUM	C
TRAKNGFLAG	C
USERAREA	C

Processing Note:

The fields in this Data Type are used either for selecting the data required or as an example of what data may be returned in the LIST BOM response.

If the Data Type is not using Field Identifiers to select information, but the data within a Data Type is requested to be returned, the Data Type is coded without any Field Identifiers and with zero occurrences in the meta data part of the BOD.

This will signify to the responding application that all of the data that corresponds to that Data Type are to be included in the response.

This BOD also enables range selections. This is accomplished by including two separate occurrences of a Field Identifier. The first occurrence is the "FROM" selection and the second, or duplicate Field Identifier is the "TO" in the range to be selected.

If a second Field Identifier is not included, the selection will continue until the data no longer applies to the selection or the MAXITEMS is reached.

In all cases where range selections are used, the solution set to be returned will include through the "TO" field. This is sometimes known as an "inclusive" range selection.

Remember that if you want to use the MAXITEMS capability, the BOMHEADER is required to be sent to accomplish this.

98.4 OPTIONCLSS

The Data Type "OPTIONCLSS" represents information about a specific class of OPTION. The OPTIONCLSS is an optional Data Type.

This Data Type is only used to identify that the requested information concerning the bill of material is needed. No Field Identifiers can be used to request information in this usage.

This is to be coded in the meta data by including the Data Type identifier, zero occurrences, and no Field Identifiers.

OPTIONAL OPTIONCLSS DATA	
NAME	APPENDIX
DESCRIPTN	C
EXCLUSIVE	C

OPTIONAL OPTIONCLSS DATA	
NAME	APPENDIX
MANDATORY	C
NOTES	C
OPTCLSSNAME	C
OPTCLSSID	C
USERAREA	C

98.5 OPTION

The Data Type “**OPTION**” describes a particular OPTION for a product. This Data Type is optional. Listed are all the Field Identifiers and Segments that are valid for use within the OPTION Data Type.

This Data Type is only used to identify that the requested information concerning the purchase order is needed. No Field Identifiers can be used to request information in this usage.

This is to be coded in the meta data by including the Data Type identifier, zero occurrences, and no Field Identifiers. The Field Identifiers within each Data Type are only included to clarify what can be expected to be returned.

OPTIONAL OPTION DATA	
NAME	APPENDIX
DEFAULT	C
DESCRIPTN	C
EXCLUSIVE	C
NOTES	C
OPTIONID	C
OPTIONNAME	C
USERAREA	C