

71. SYNC BOM - REVISION 004

71.0 Overview

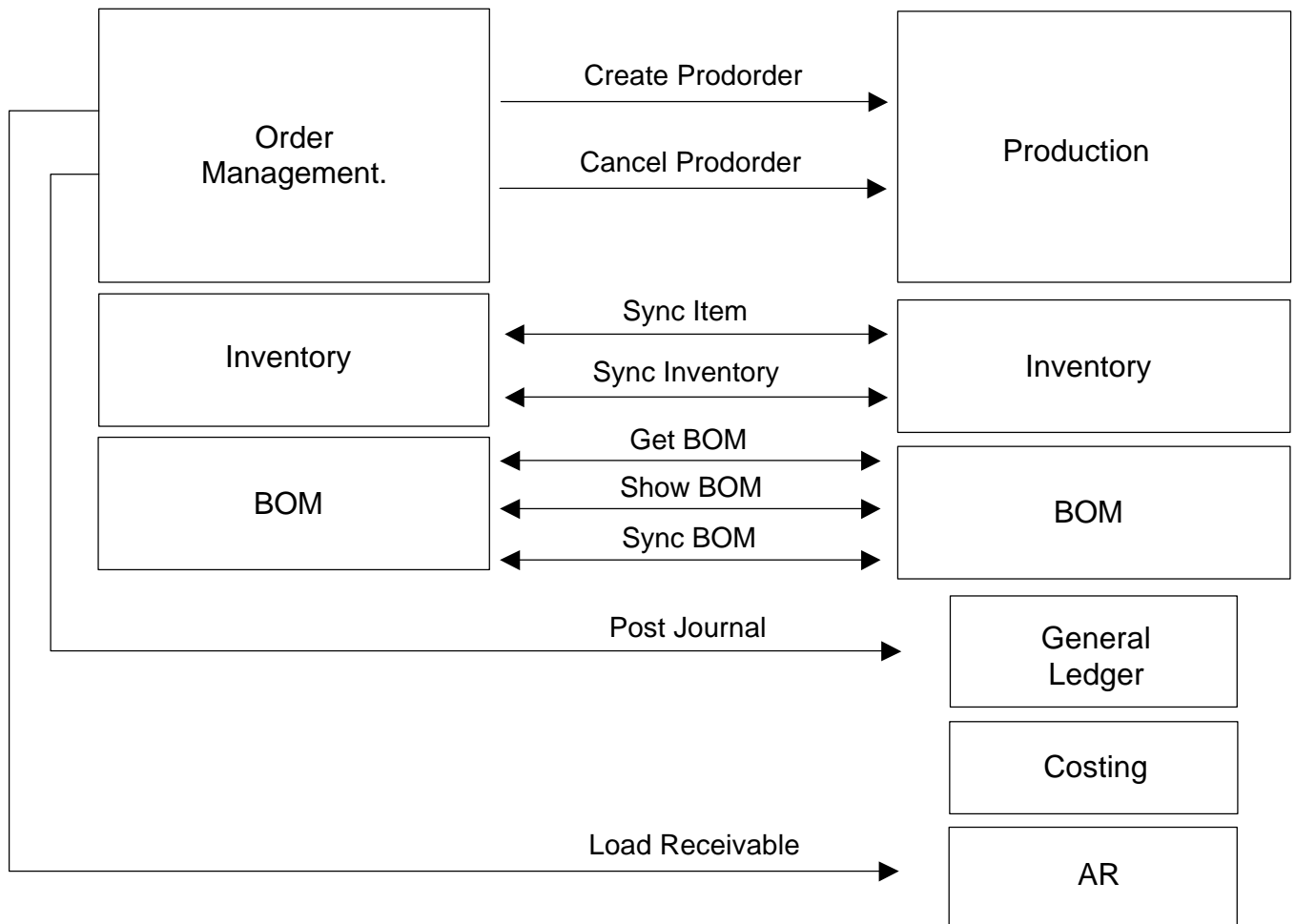
This chapter describes the Business Service Request named SYNC BOM, the Verb being SYNC and the Noun being BOM. BOM stands for Bill of Material. The environment for this BSR can be within the enterprise or outside the enterprise.

The purpose of the SYNC BOM Business Service Request is to communicate to a business application module or system the need to initiate the creation of a Bill of Material structure.

This Business Service Request may be necessary to address the Make to Order, Assemble to Order, or Mixed Mode business ordering scenarios in a Order Management to Manufacturing application integration scenario.

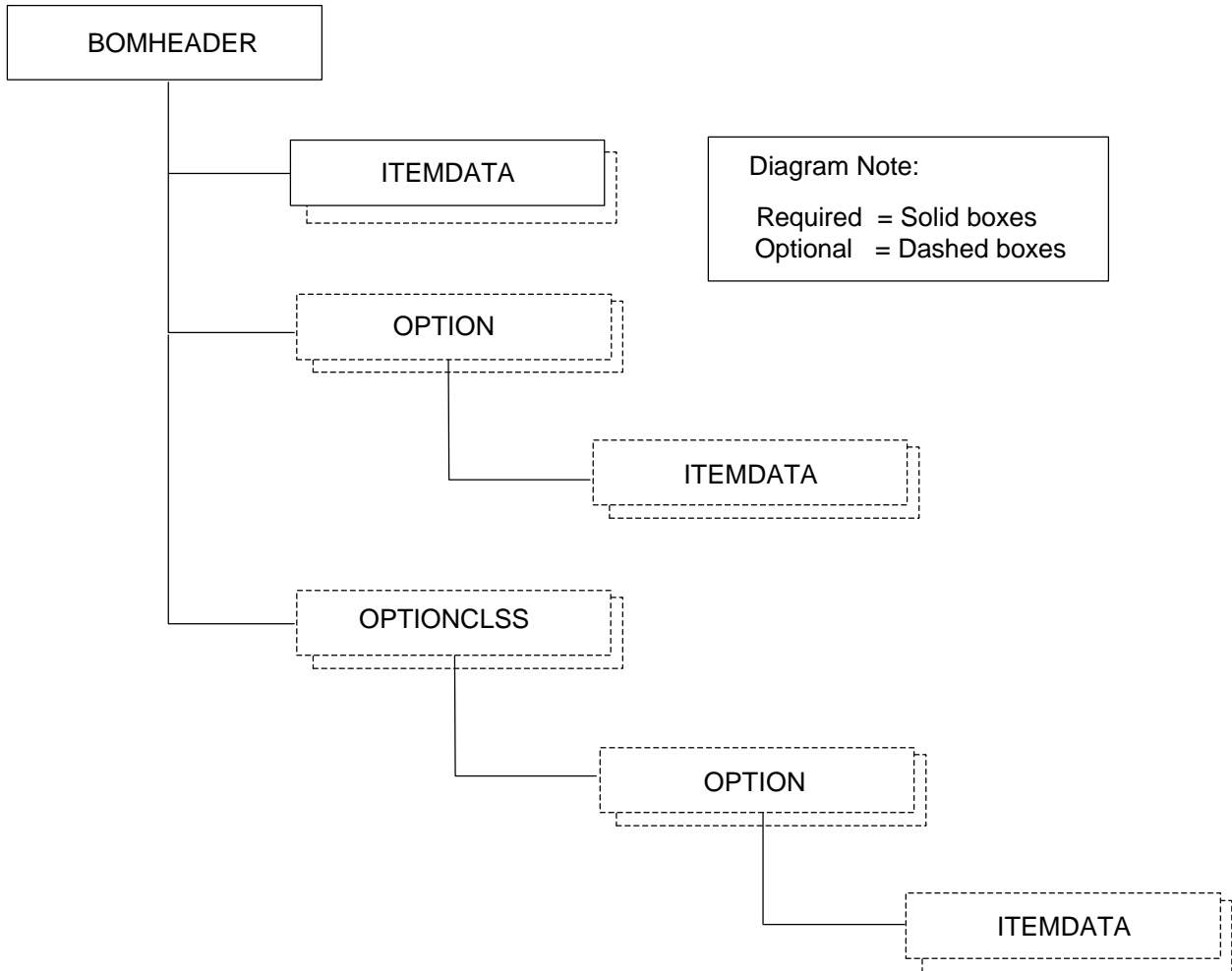
There are many possible business applications in several environments that may use this capability. For example, an MRP, Inventory, or Manufacturing business application could use this to communicate the requirement to synchronize a Bill of Material.

This BSR may be used individually, or as part of a larger interface scenario. The picture below visualizes one of the possible uses of this BSR.



71.1 SYNC BOM

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



The Business Service Request SYNC BOM uses four Data Types:

1. **BOMHEADER** - Information that generally describes the Bill of Material Structure and it's contents. This Data Type is required.
2. **ITEMDATA** - Information that describes the attributes of a specific item. At least one occurrence of this Data Type is required for each occurrence of the BOMHEADER Data Type.
3. **OPTION** - Information that describes the attributes of a specific OPTION within a classification. 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:

When included in a hierarchy, the Data Types are position dependent for their meaning and applicability to the Bill of Material.

The Bill of Material structure is broken down into three classifications or ways to represent the ITEM. An ITEM may be included by itself as in the first sub-grouping, or an ITEM may be represented as part of a set of options or as an option within a class of options.

An example of an option would be CD-ROM for a laptop computer. Then each of the types of CD-ROM's for the option would be a separate ITEM.

An example of an option class would be memory for a laptop. The options could then be 12, 24, or 40 megabytes of RAM. Each of these options would then have separate ITEM identifiers for memory modules that makes up the appropriate amount of memory. For 40 megabytes of RAM, this could be two 16 megabyte memory modules and an 8 megabyte module, or one 16 megabyte and three 8 megabyte memory modules.

71.2 BOMHEADER

The Data Type, "**BOMHEADER**", is the first Data Type the Business Service Request "**SYNC BOM**" uses. For each item represented in the Business Data Area, there must be one occurrence of the BOMHEADER Data Type at the beginning of each Business Data Area.

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.

The first table represents required data.

REQUIRED BOMHEADER DATA	
NAME	APPENDIX
BOMID	C
BOMTYPE	C
QUANTITY(BATCHSIZE)	D
SYNCIND	C

Processing Notes:

QUANTITY(BATCHSIZE) should default to 1 if this is for a discrete manufacturing situation.

The second table describes data that is optional.

OPTIONAL BOMHEADER DATA	
NAME	APPENDIX
BOMALTID	C
BOMNAME	C
BOMREVISION	C
BOMSTATUS	C
BOMUSAGE	C
DATETIME(EFFECTIVE)	D
DATETIME(EXPIRATION)	D
DESCRIPTN	C
ITEM	C
ITEMRV	C
NOTES	C
PROPERTY1 - PROPERTY99	C
SITELEVEL1 - SITELEVEL9	C
TRAKNGFLAG	C
USERAREA	C

71.3 ITEM DATA

The Data Type “**ITEM DATA**” describes a particular ITEM within a product or Bill of Material structure. The ITEM DATA Data Type is required for the SYNC BOM Business Service Request.

Listed are all the Field Identifiers and Segments that are valid for use within the ITEM DATA Data Type. The first table represents required data.

REQUIRED ITEM DATA DATA	
NAME	APPENDIX
ITEM	C
ITEMTYPE	C
QUANTITY(ITEM)	D

The second table describes data that is optional.

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

OPTIONAL ITEM DATA DATA	
NAME	APPENDIX
TRAKNGFLAG	C
USERAREA	C

71.4 OPTION

The Data Type “**OPTION**” describes a particular **OPTION** for a product. The **OPTION** Data Type is optional depending on the structure of the BOM.

Listed are all the Field Identifiers and Segments that are valid for use within the **OPTION** Data Type.

The first table represents required data.

REQUIRED OPTION DATA	
NAME	APPENDIX
OPTIONID	C
OPTIONNAME	C
SYNCIND	C

Processing Notes:

Either the **OPTIONID** or the **OPTIONNAME** in the **REQUIRED** table is required. Both fields are not required to be present.

The second table describes data that is optional.

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

71.5 OPTIONCLSS

The Data Type "OPTIONCLSS" represents the information about a specific class of OPTION. This Data Type is optional. Listed are all the Field Identifiers and Segments that are valid for use within the OPTIONCLSS Data Type.

The first table represents required data.

REQUIRED OPTIONCLSS DATA	
NAME	APPENDIX
OPTCLSNAME	C
OPTCLSSID	C

Processing Notes:

Either the OPTCLSNAME or the OPTCLSSID in the REQUIRED table above are required, but both are not required.

The second table describes data that is optional.

OPTIONAL OPTIONCLSS DATA	
NAME	APPENDIX
DESCRIPTN	C
EXCLUSIVE	C
MANDATORY	C
NOTES	C
USERAREA	C