

70. SHOW BOM - REVISION 004

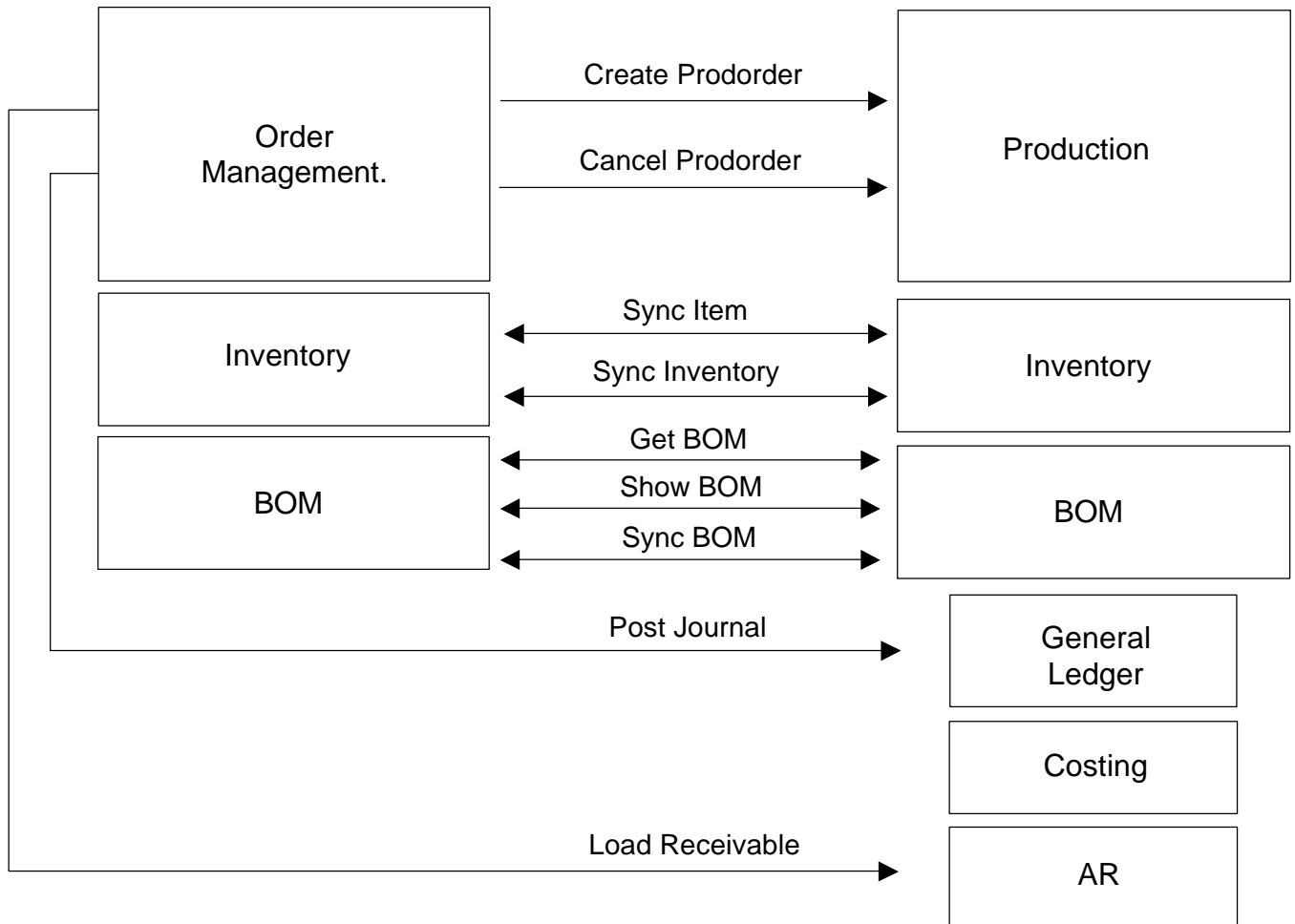
70.0 Overview

This chapter describes the Business Service Request named SHOW BOM, the Verb being SHOW 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 SHOW BOM Business Service Request is to supply Item Bill of Material information to another business application module. This BSR may also be initiated by the sending system upon some event occurring.

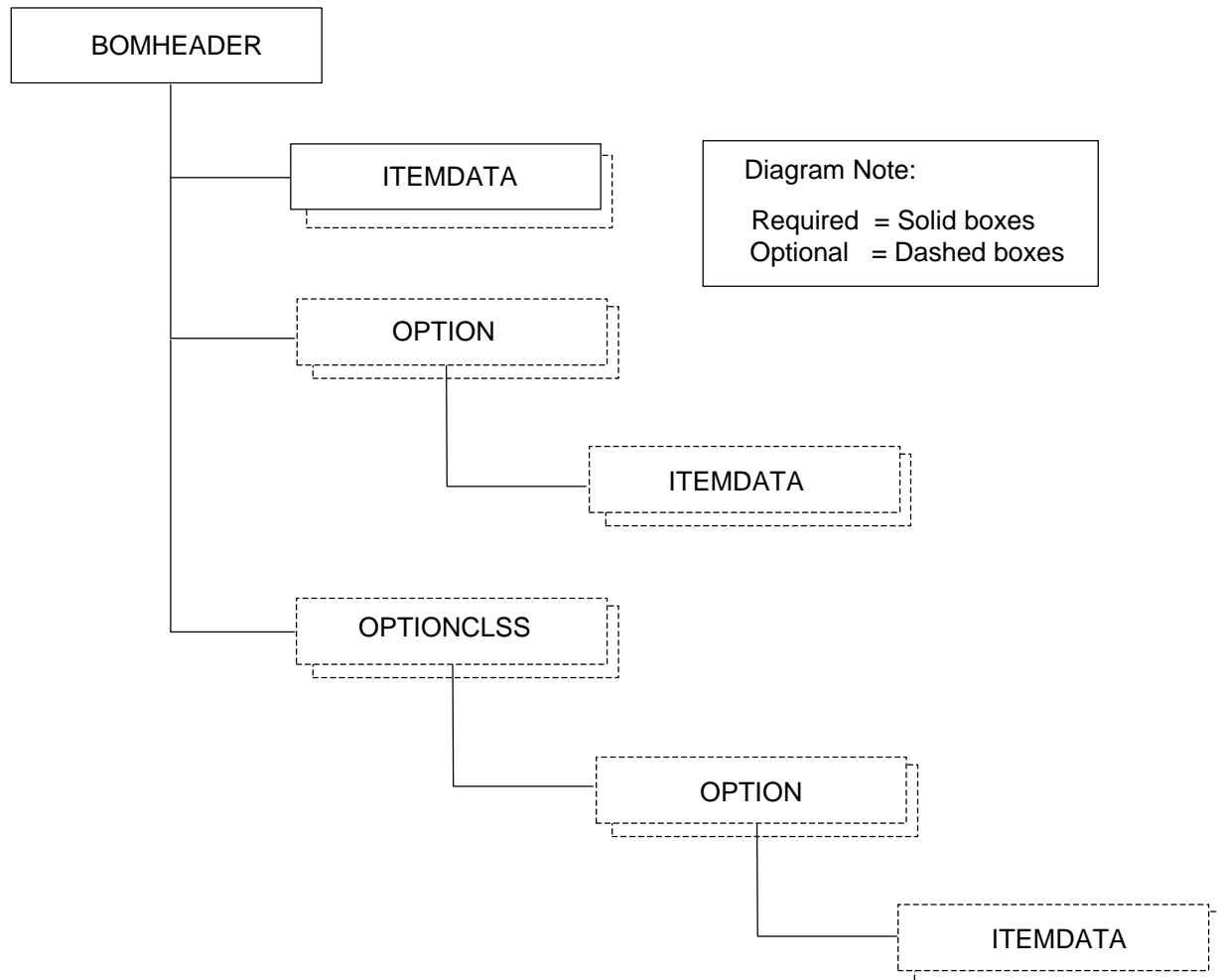
There are many possible business applications in several environments that may use this capability. For example, an MRP, Inventory, or Manufacturing business application could use this to communicate Item Bill of Material information.

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



70.1 Show BOM

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



The Business Service Request SHOW 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.

70.2 BOMHEADER

The Data Type, "**BOMHEADER**", is the first of four Data Types the Business Service Request "**SHOW 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
BOMNAME	C

Processing Notes:

Both of the fields in the REQUIRED table above are not required. One of the two is required.

The second table represents data that is optional.

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

70.3 ITEMDATA

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

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

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

The second table describes data that is optional.

OPTIONAL ITEMDATA 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

70.4 OPTION

The Data Type “**OPTION**” describes a particular **OPTION** for a product. The **OPTION** is an optional Data Definition Area depending on the structure of the BOM. Refer to the **Processing Notes** in Section **70.1** for more details.

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

Processing Notes:

Both of the fields in the **REQUIRED** table above are not required. One or the other is actually required.

The second table describes data that is optional.

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

70.5 OPTIONCLSS

The Data Type “**OPTIONCLSS**” represents information about a specific class of **OPTION**. The **OPTIONCLSS** is an optional Data Definition Area depending on the structure of the BOM. Refer to the **Processing Notes** in Section 70.1 for more details. 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:

Both of the fields in the **REQUIRED** table above are not required. One or the other is actually required.

The second table describes data that is optional.

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