

115. SYNC MAINTORDER - REVISION 001

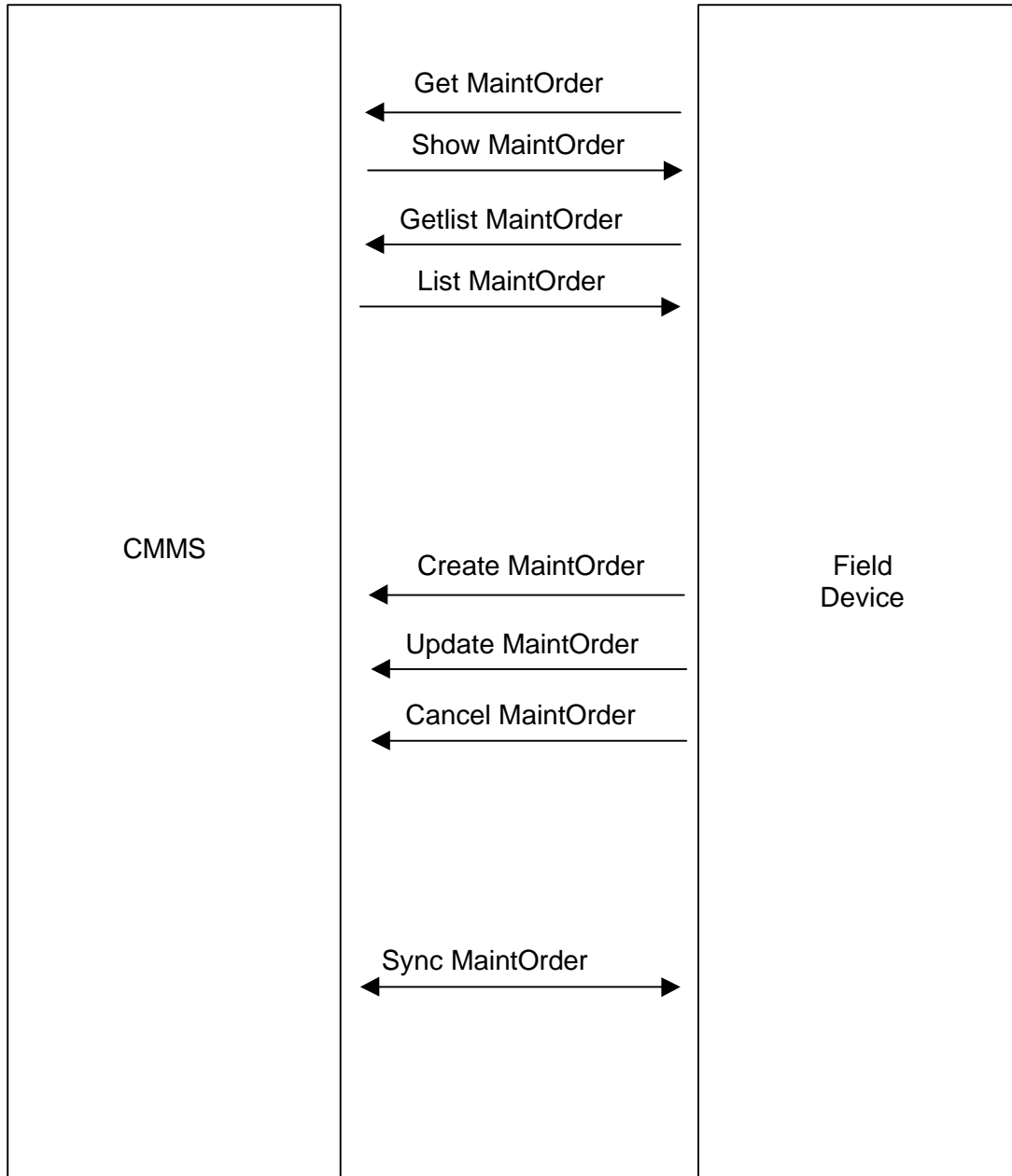
115.0 Overview

This chapter describes the Business Object document named SYNC MAINTORDER, the Verb being SYNC and the Noun being MAINTORDER. The environment for this BOD can be within the enterprise or outside the enterprise.

The purpose of the SYNC MAINTORDER Business Object document is to ensure that all business software components in a specific integration instance have the current Maintenance Order information. This BOD is commonly used to publish the need to create or update a Maintenance Order in a publish and subscribe integration environment.

One possible scenario is the synchronization of Maintenance Order between field devices, service trucks, etc. with a CMMS system.

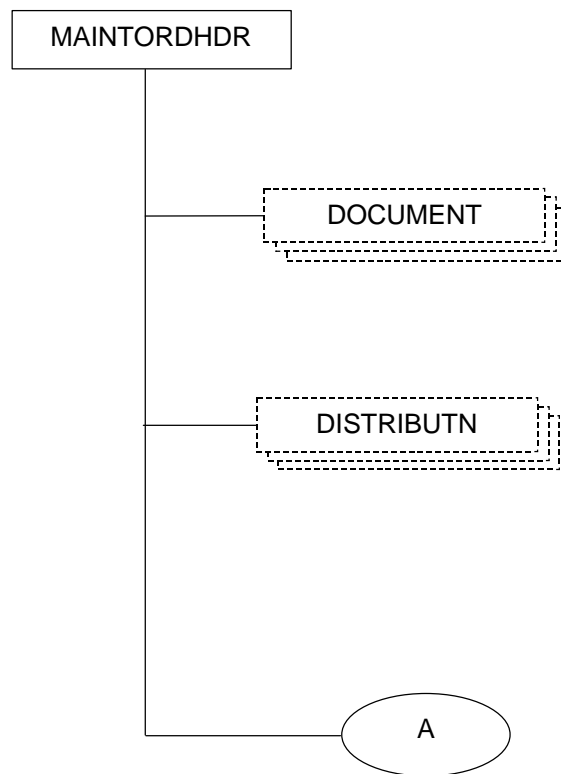
This BOD may be used individually, or as part of a larger interface scenario. The picture below visualizes one of the possible uses of this BOD.



115.1 SYNC MAINTORDER

The SYNC MAINTORDER Business Object Document will be processed asynchronously and consists of the following components:

Diagram Note:
 Required = Solid boxes
 Optional = Dashed boxes



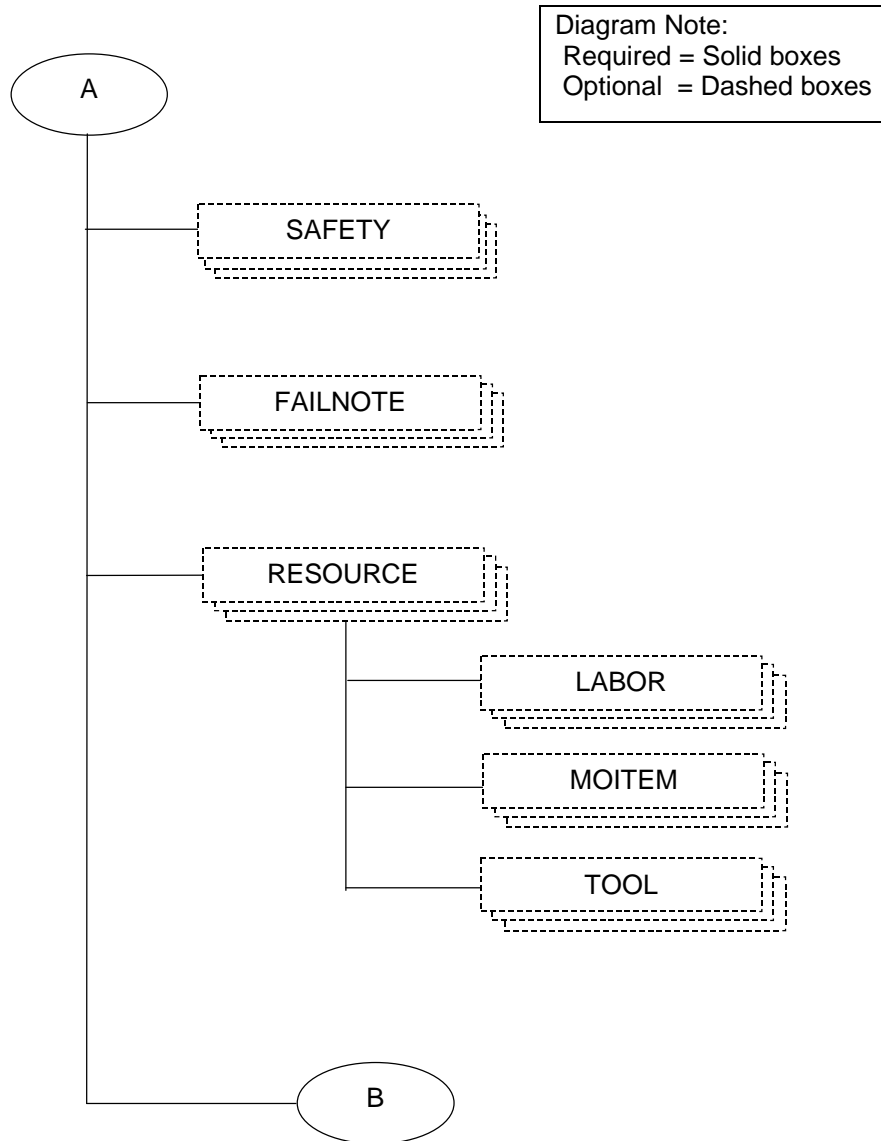
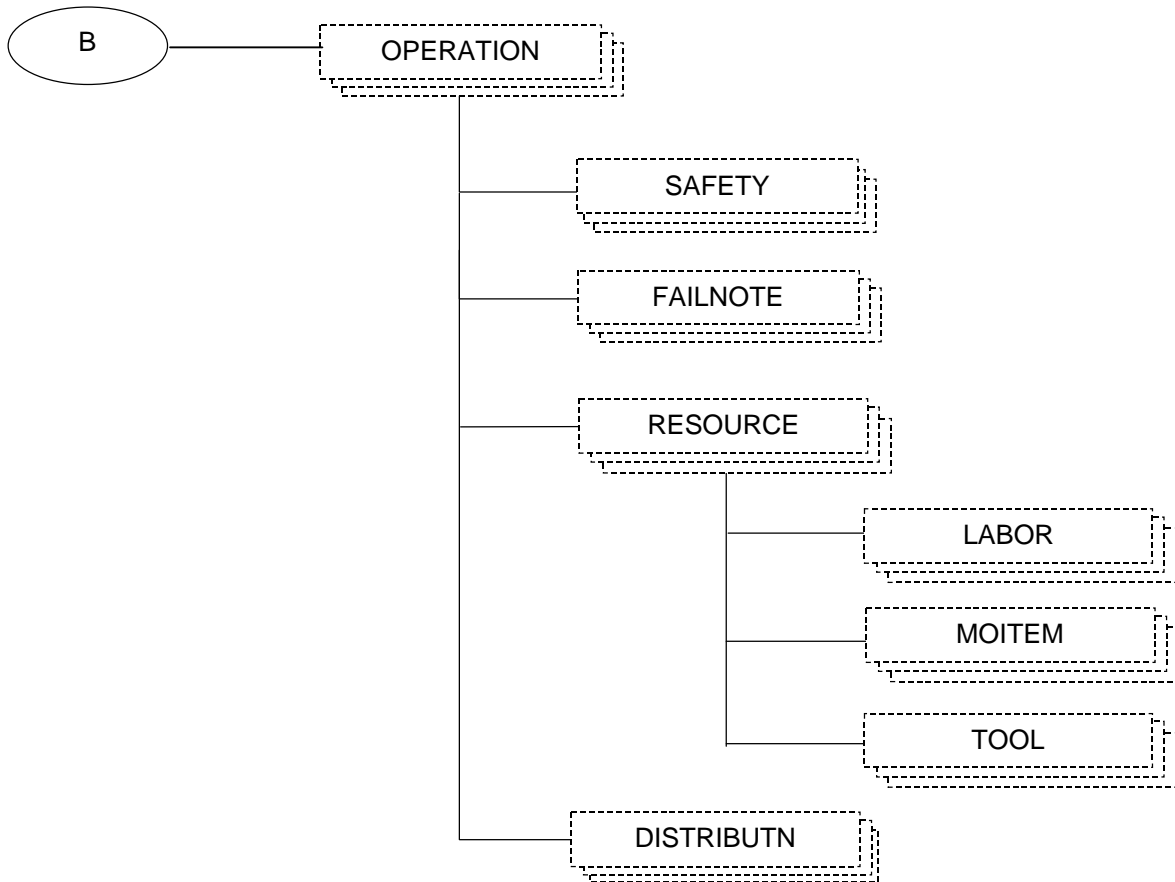


Diagram Note:
Required = Solid boxes
Optional = Dashed boxes



The Business Object document SYNC MAINTORDER uses the following Data Types:

1. **MAINTORDHDR** - Information that generally describes the maintenance order. This Data Type is required.
2. **DOCUMENT** - Information that describes the document. This Data Type is optional.
3. **DISTRIBUTN** - The accounting distribution information associated with a Business Object Document. This may occur at the maintenance order header or at the operation level. In the event accounting distribution information exist at both levels, accounting distribution information at the header level acts as a template/qualifier for accounting distribution information at the operation level. For example, if the header distribution specifies that a maintenance order is to Business Area X, distributions at the operation level will inherit Business Area X. Values, if defined, at the header level will be inherited at the operation level. This Data Type is optional.
4. **SAFETY** - Information on safety related to the work, location, equipment or vicinity. This may occur at the maintenance order header or at the operation level. This Data Type is optional.
5. **FAILURE** – Information on failure, cause or remedy. This Data Type could be very complex depending on the level of detailed failure analysis required. That is, this Data Type itself could be a hierarchical compound document in itself. Failure class identifies unique categories of failures. Within a category, failure types determine levels of failure analysis. Failure type provides the hierarchical structure of the failure analysis. In the simplest form, failures are reported only at one level, e.g., just failures. Causes and/or remedies could be reported against a failure in a multi-level hierarchical reporting. For example, failure analysis could be recorded as follows; for failure A, causes P and Q are the factors and remedies X, Y and Z are to be taken. The information here is more for failure analysis reporting. This may occur at the maintenance order header or at the operation level. This Data Type is optional.
6. **RESOURCE** - Information that describes the resources to perform the maintenance order or operation. This may occur at the maintenance order header or at the operation level. In the event resource information exist at both levels, resource information at the header level acts as a template/qualifier for resource information at the operation level. This Data Type is optional.
7. **LABOR** – Information specific to the personal required to perform the maintenance order or operation. This may occur at the maintenance order header or at the operation level. In the event labor information exist at both levels, labor information at the header level acts as a

template/qualifier for labor information at the operation level. This Data Type is optional.

8. **ITEM** – Information specific to the item(s) required to perform the maintenance order or operation. This may occur at the maintenance order header or at the operation level. In the event item information exist at both levels, item information at the header level acts as a template/qualifier for item information at the operation level. This Data Type is optional.
9. **TOOL** – Information specific to the tooling required to perform the maintenance order or operation. This may occur at the maintenance order header or at the operation level. In the event tool information exist at both levels, tool information at the header level acts as a template/qualifier for tool information at the operation level. This Data Type is optional.
10. **OPERATION** - Information that describes the operation(s) to be performed. This Data type is optional.

115.2 MAINTORDHDR

The Data Type, “**MAINTORDHDR**”, is the first Data Type the Business Object document “**SYNC MAINTORDER**” uses. For each item represented in the Business Data Area, there must be one occurrence of the MAINTORDHDR 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 MAINTORDHDR 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 MAINTORDHDR DATA	
NAME	APPENDIX
MAINTORDID	C
SYNCIND	C

The second table describes data that is optional.

OPTIONAL MAINTORDHDR DATA	
NAME	APPENDIX
AMOUNT(ACTUAL)	D
AMOUNT(BUDGET)	D
AMOUNT(ESTIMATE)	D
DATETIME(ACTEND)	D
DATETIME(ACTSTART)	D
DATETIME(CHANGEDATE)	D
DATETIME(FAILDATE)	D
DATETIME(PLANEND)	D
DATETIME(PLANSTART)	D
DATETIME(REPORTDATE)	D
DATETIME(RSPDDATE)	D
DATETIME(SCHEND)	D
DATETIME(SCHSTART)	D
DATETIME(STATUSDATE)	D
DESCRIPTN	C
FIXEDASSET	C
JPID	C
MACHINEID	C
MACHSTATE	C
MAINTCALID	C
MAINTLOCID	C
MOPARENTID	C
MOPRIORITY	C
MOSTATUS	C
MOTYPE	C
PLANNERID	C
PMID	C
PROJECT	C
QUANTITY(ACTDUR)	D
QUANTITY(ESTDUR)	D
QUANTITY(REMDUR)	D
REQUESTER	C
SPLITABLE	C
SUPERVISOR	C
TASK	C
TELEPHONE1	C
USERAREA	C

115.3 DOCUMENT

The Data Type “**DOCUMENT**” represents the information about a specific class of MAINTORDER. DOCUMENT is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED DOCUMENT DATA	
NAME	APPENDIX
DOCUMENTID	C

The second table represents optional data.

OPTIONAL DOCUMENT DATA	
NAME	APPENDIX
DOCTYPE	C
DOCUMENTRV	C
USERAREA	C

Processing Notes:

DOCTYPE is a classification of the document or business transaction. It is also known as document code.

Possible values: REQUEST
ORDER

115.4 DISTRIBUTN

The Data Type, “**DISTRIBUTN**”, is the Data Type the Business Object document SYNC MAINTORDER uses to describe accounting distribution. The DISTRIBUTN Data Type is optional.

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

OPTIONAL DISTRIBUTN DATA	
NAME	APPENDIX
BUSNAREA	C
COSTCENTER	C
DEPARTMENT	C
DIVISION	C
ELEMENT1 - ELEMENT999	C
FUND	C
GEOGRAPHY	C
GLENTITYS	C
GLNOMACCT	C
OPERAMT(EXTENDED)(T)	D
PROFITCTR	C
PROJECT	C
UNIT	C
USERAREA	C
WAREHOUSE	C

Processing Notes:

Distribution defined at the header level acts as a template for distribution assignments at the operations level. For example, if the header distribution specifies that a maintenance order is to a Business Area.

115.5 SAFETY

The Data Type “**SAFETY**” describes safeties required for the maintenance order. The SAFETY is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED SAFETY DATA	
NAME	APPENDIX
SAFETYID	C
SAFETYTYPE	C
SAFTYCLASS	C

The second table describes data that is optional.

OPTIONAL SAFETY DATA	
NAME	APPENDIX
DESCRIPTN	C
MSDSID	C
RELITEMID	C
RELLOCID	C
RELMACHID	C
USERAREA	C

115.6 FAILNOTE

The Data Type “**FAILNOTE**” describes possible failure(s), cause(s) and remedies for the maintenance order. FAILNOTE is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED FAILNOTE DATA	
NAME	APPENDIX
FAILCLASS	C
FAILTYPE	C
FAILUREID	C

The second table represents optional data.

OPTIONAL FAILNOTE DATA	
NAME	APPENDIX
DESCRIPTN	C
USERAREA	C

115.7 RESOURCE

The Data Type “**RESOURCE**” describes resource(s) within a maintenance order or an operation. RESOURCE is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The table describes optional data.

OPTIONAL RESOURCE DATA	
NAME	APPENDIX
RESORCETYP	C
USERAREA	C

Processing Notes:

Resources defined at the header level acts as a template for resource assignments at the operations level.

115.8 LABOR

The Data Type “**LABOR**” describes labor or craft resource(s) needed for the maintenance order or an operation. LABOR is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED LABOR DATA	
NAME	APPENDIX
CRAFTID	C
LABORID	C

Processing Notes:

Only one of the following fields is required: LABORID or CRAFTID.

In the instance where the LABORID is supplied the QUANTITY(LABOR) should be one (1).

The second table describes optional data.

OPTIONAL LABOR DATA	
NAME	APPENDIX
AMOUNT(ESTIMATE)	D

OPTIONAL LABOR DATA	
NAME	APPENDIX
AMOUNT(PAYRATE)	D
DESCRIPTN	C
QUALIF	C
QUANTITY(LABOR)	D
USERAREA	C

115.9 MOITEM

The Data Type “**MOITEM**” describes material resource(s) needed for the maintenance order or an operation. MOITEM is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED MOITEM DATA	
NAME	APPENDIX
AMOUNT(ESTIMATE)	D
DESCRIPTN	C
ITEM	C
ITEMTYPE	C
QUANTITY(REQUIRED)	D

Processing Notes:

Only one of the following fields is required: ITEM, DESCRIPTN or ITEMCLASS.
And only one of the following fields is required: ESTIMATE or REQUIRED.

The second table describes optional data.

OPTIONAL MOITEM DATA	
NAME	APPENDIX
AMOUNT(ESTUCOST)	D
USERAREA	C

115.10 TOOL

The Data Type “**TOOL**” describes tool resource(s) needed for the maintenance order or an operation. TOOL is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED TOOL DATA	
NAME	APPENDIX
DESCRIPTN	C
QUANTITY(REQUIRED)	D
TOOLCLASS	C
TOOLID	C

Processing Notes:

Only one of the following fields is required: TOOLID, DESCRIPTN or TOOLCLASS.

The second table describes optional data.

OPTIONAL TOOL DATA	
NAME	APPENDIX
AMOUNT(ESTIMATE)	D
AMOUNT(RATE)	D
QUANTITY(ESTHRS)	D
USERAREA	C

115.11 OPERATION

The Data Type “**OPERATION**” describes a particular operation/task/step necessary for the maintenance order. OPERATION is an optional Data Definition Area for the SYNC MAINTORDER Business Object document.

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

The first table represents required data.

REQUIRED OPERATION DATA	
NAME	APPENDIX
OPERATNID	C

The second table describes data that is optional.

OPTIONAL OPERATION DATA	
NAME	APPENDIX
DATETIME(COMPDATE)	D
DATETIME(MSMENDDATE)	D
DESCRIPTN	C
INSPECTRID	C
NOTES	C
OPSTATUS	C
QUANTITY(ACTHRS)	D
QUANTITY(ESTHRS)	D
QUANTITY(MSMEND)	D
QUANTITY(REMHRS)	D
USERAREA	C