



Electronic Information Environment (EIE)

Business Use Case (BUC)

BUC 2.1 Exchange Master Data - Outbound

EIE Project

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1. EIE Business Use Case¹ Overview

1.1 Introduction

Performance Based Contracting (PBC) contains a set of guidelines for the in-service support (ISS) of Canadian Forces (CF) platforms. Under these guidelines Canada is responsible to perform corrective and/or preventive maintenance activities on the platform. The ISS Contractor(s) will own, manage and deliver to the specified Handover Point (HoP) all platform materiel required to support the platform, with the exception of Canada-owned materiel. In order for Canada and an ISS Contractor to fulfill their obligations under ISS contract, specific data sets must be exchanged between Canada and the ISS Contractor.

The collection of information systems provided by Canada and the ISS Contractor are used to maintain the platform and the various information exchange mechanism between Canada and the ISS Contractor, is collectively known as the Electronic Information Environment (EIE).

The collection of web services and supporting infrastructure which enables exchange of data between the ISS Contractor and Canada's operational systems in support of In-Service Support Contract (ISSC) between Canada and the ISS Contractor is collectively known as Electronic Data Exchange (EDE). The EDE components span application nodes, network zones and the Internet.

1.2 Purpose

Canada Maintenance Management System (CMMS) needs to have the latest Master Data to ensure that most up-to-date maintenance information is available for Canada's platforms. Canada will load ship data into CMMS based on information from the Shipbuilder(s). The ISS Contractor will request an initial data load for each ship from Canada. Canada will provide CMMS master data associated with the platform to the ISS Contractor through the EDE.

This Business Use Case (BUC) describes the exchange of Master Data from Canada to the ISS Contractor through the EDE for a platform managed according to PBC.

¹ "Business Use Case: A business process, representing a specific workflow in the business; an interaction that a stakeholder has with the business that achieves a business goal. It may involve both manual and automated processes and may take place over an extended period of time." - <http://www.ibm.com/developerworks/rational/library/apr07/english/>. Also defined as such in EIE Solution Architecture.

1.3 Intended Audience

The intended audience for this business use case includes:

- ISS Contractor(s) who require detail of their business service-level interactions, benefits and obligations under ISSC.
- All Canada personnel implementing the PBC.
- Solution Architects who will define a Business Service Model for the business service(s) that are described.
- Functional Testers who will use the business use case to define test scenarios for Integration testing.
- Designers who will perform detailed design and unit test.

1.4 References and Traceability

Business Process documents

[Ref. 1] Business Process Catalogue Annex P: Navy CMMS Data Initialization - In the Context of Performance Based Contracting (PBC)

With respect to the referenced documents this BUC addresses the following sections:

Reference	Section
[Ref. 1] Business Process Catalogue Annex P	Annex P – Navy CMMS Data Initialization Process Model and cross-functional process flows

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2. BUC 2.1 Exchange Master Data - Outbound

This BUC will identify processes and activities and define scenarios which apply to Master Data being sent to the ISS Contractor.

2.1 Overview

Identifier	BUC 2. 1
Name	Exchange Master Data - Outbound
Business goal	Send Master Data sets to the ISS Contractor as necessary for initial data load for each ship
Stakeholders	Canada and ISS Contractor(s)
Workflow/interaction	Exchange of Master Data sets between Canada and ISS Contractor when: <ul style="list-style-type: none"> The ISS Contractor initiates a Master Data demand request Refer to the Navy CMMS Data Initialization Process Model business process flows that identify master data touch points. Reference [Ref. 1].
Processes	Information exchange is automated (system-to-system). The exchange is immediate upon a triggering event has occurred in the source system - Master Data Outbound. Some error scenarios may require manual intervention.
Context	Business Domain: Master Data Functional Area: Master Data
Period of Time	The full lifecycle of the subject platform
Description	<p>The initial LSAR data set for the ship is provided to Canada by the shipbuilder and will be the basis for the initial data load. The Fleet Data Management (FDM) team will validate the Master Data in a validation environment and then load the data into CMMS.</p> <p>Canada will provide CMMS master data associated with platform to the ISS Contractor through the EDE.</p> <p>Canada will use EDE to transfer to the ISS Contractor, the Master Data set which is created and permitted by Canada to be shared with the ISS Contractor.</p>

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2.2 Business Rules and Assumptions

1. The EDE systems shall ensure Master Data sets are sent only to the ISS Contractor system which is properly authenticated and authorized to see maintenance and materiel data for that class of ship.
2. CMMS, as the initial system of record for master data, will determine when data can be released to the ISS Contractor and will perform a data transfer to the ISS Contractor.
3. Canada and the ISS Contractor will need to establish specific processing periods from the time of dispatch of data from Canada to ultimate acceptance of the data by the ISS Contractor.
4. Canada and the ISS Contractor will need to establish a Master Data reconciliation mechanism that does not use the EDE.

2.3 Actors

The following actors have been identified as performing the documented business activities:

Role Name	Role Description / Responsibilities
ISS Contractor	<ul style="list-style-type: none">• Initiates request for Canada to send Master Data to the ISS Contractor• Provides a system that will have the ability to:<ul style="list-style-type: none">– accept and process a Master Data sent from Canada, and– acknowledge acceptance of the data
Canada Authorized Person	<ul style="list-style-type: none">• Prepares the Master Data to be transferred to the ISS Contractor• Triggers sending of Master Data to the ISS Contractor via EDE
CMMS / CSS	<ul style="list-style-type: none">• Generates and sends a Master Data set
EDE	<ul style="list-style-type: none">• Transports and transforms the Master Data set to the ISS Contractor

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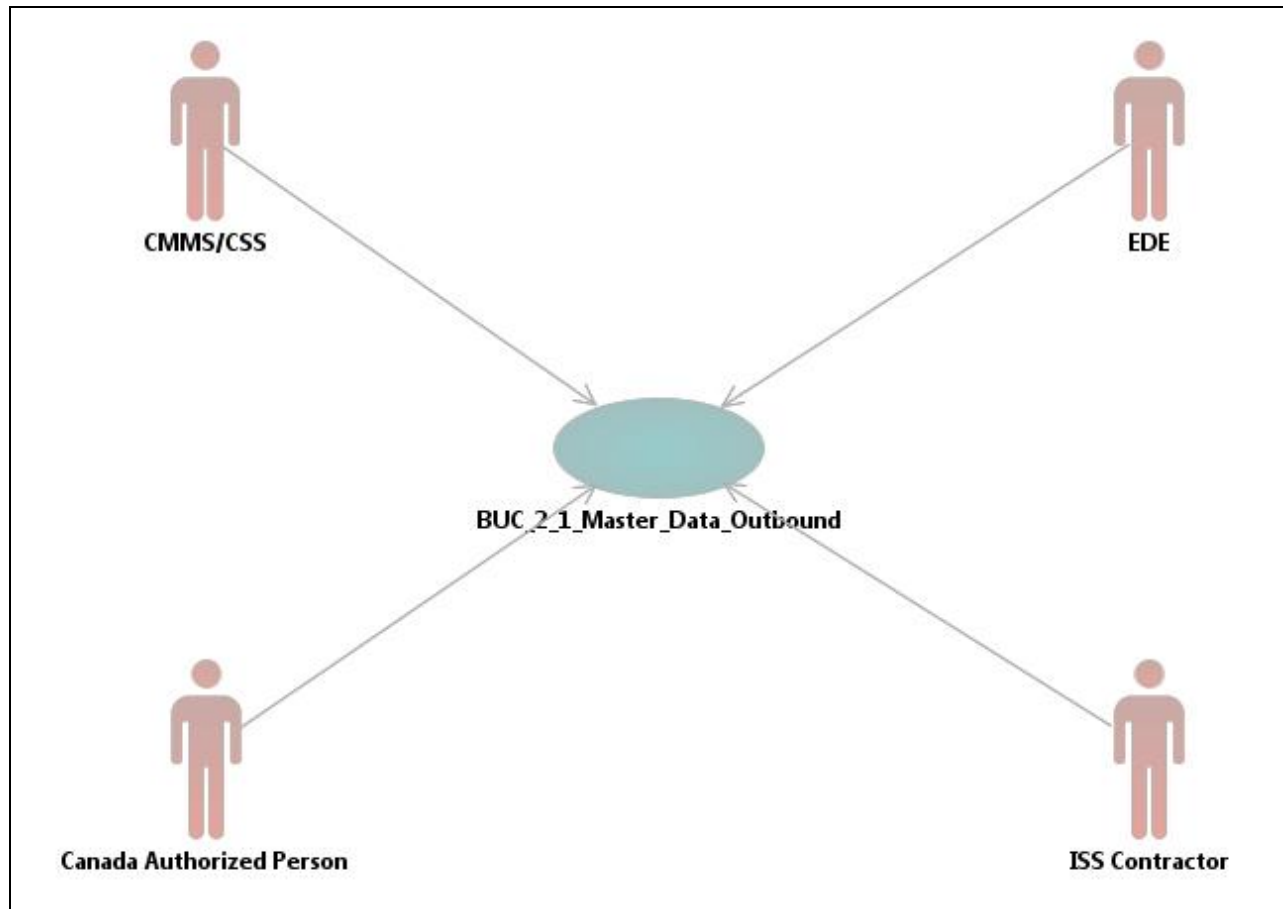


Figure 2-1 Master Data - Outbound

2.4 Common Pre-Conditions

These apply to every scenario unless explicitly stated otherwise:

1. Canada and the ISS Contractor have agreed upon a Master Data set format (see [Functional Data Definition](#))
2. Canada and the ISS Contractor have agreed upon the exchange mechanism for the Master Data set.

2.5 Common Post-Condition(s)

The following applies to every scenario unless explicitly stated otherwise:

1. Master Data set has been received by the ISS Contractor and an acknowledgement has been received by Canada.

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2.6 Common BUC Steps

Each scenario defined below includes the following common steps:

Common Steps	Step Description	Actor
Validate Master Data dataset	EDE receives and technically validates the Master Data set	EDE
Convert Master Data set to common Format	EDE converts data to XML-based format that has been adopted by Canada and the ISS Contractor.	EDE
Send Master Data set to the Data Consumer	EDE sends Master Data set (which may be an acknowledgement or error message) to the Data consumer, in accordance with the transmission definition agreed by the ISS Contractor and Canada.	EDE
Acknowledge Receipt of Master Data set	The data consumer (ISS Contractor System or CMMS) sends a technical acknowledgement receipt to EDE for received and successfully processed the Master Data set.	Data consumer (ISS Contractor or CMMS)

2.7 Scenarios²

In the following scenarios the pre-condition and trigger serve to uniquely identify the Master Data exchange in the context of Canada provided Master Data in support of initial ship data load.

² A scenario corresponds to a specific activity in the Outbound Master Data business processes when a triggering event occurs which causes a Master Data set exchange. Each exchange use case scenario corresponds to a vertical slice from a Master Data business process which results in a Master Data set being transferred to the ISS Contractor.

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2.7.1 2.1.1 Master Data Request [N2.2.2.1.15]

Scenario Name	2.1.1 Master Data Request [N2.2.2.1.15]		
Business Process	This scenario occurs in the following business processes: <ul style="list-style-type: none">Send Platform Data to ISS Contractor		
Business Context	<p>The ISS Contractor will initiate a Master Data request per ship. The Master Data will be used to initialize the ship's dataset within the ISS Contractor's systems.</p> <p>Send Platform Data to ISS Contractor</p> <ul style="list-style-type: none">The ISS Contractor will initiate a Master Data request using the document authorization number corresponding to the ship data being requested that will be evaluated by Canada.		
Precondition(s)	See Common Pre-Conditions .		
Trigger event	The ISS Contractor initiates a request for Master Data		
Steps	Step Name	Step Description	Actor
	Initiate the Master Data Request	The actor decides to initiate the Master Data request from Canada.	ISS Contractor
	Send Request for Master Data	The actor sends an Initial Ship Master Data request to Canada.	ISS Contractor
	Process Master Data Request	CMMS will process the Master Data Request. This will result in an error back to the ISS Contractor or a dispatch of Master Data to the ISS Contractor.	CMMS
	Continue with Common BUC Steps		
Postcondition(s)	Canada prepares to send Master Data.		
Notes			

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2.7.2 2.1.2 Send Master Data [N2.2.2.1.18, N2.2.2.1.19, N2.2.2.1.20, N2.2.2.1.21, N2.2.2.1.22, N2.2.2.1.23, N2.2.2.1.24, N2.2.2.1.25, N2.2.2.1.26, N2.2.2.1.27]

Scenario Name	2.1.2 Send Master Data [N2.2.2.1.18, N2.2.2.1.19, N2.2.2.1.20, N2.2.2.1.21, N2.2.2.1.22, N2.2.2.1.23, N2.2.2.1.24, N2.2.2.1.25, N2.2.2.1.26, N2.2.2.1.27]		
Business Process	<p>This scenario occurs in the following business processes:</p> <ul style="list-style-type: none"> Send Platform Data to ISS Contractor 		
Business Context	<p>The ISS Contractor will initiate a Master Data request per ship. The Master Data will be used to initialize the ship's dataset within the ISS Contractor's systems.</p> <p>Send Platform Data to ISS Contractor</p> <ul style="list-style-type: none"> The ISS Contractor will initiate Master Data request using the document authorization number corresponding to the ship data being requested that will be evaluated by Canada. The Master data load sent to the ISS Contractor may include material master data (MMR (Material Master Record) [N2.2.2.1.18] , FFFC (Fit Form Function Class) [N2.2.2.1.20], BOM (Bill of Materials) [N2.2.2.1.25]), technical structure data (MPL (Master Parts List) [N2.2.2.1.19], FLOC (Functional Location) [N2.2.2.1.21], EMR (Equipment Master Record) [N2.2.2.1.22] , MPOINT (Measurement Point) [N2.2.2.1.26]), and/or maintenance program data (MTL (Maintenance Task List) [N2.2.2.1.23], MP (Maintenance Plan) [N2.2.2.1.24] , and MDOC (Measurement Documents) [N2.2.2.1.27]). 		
Precondition(s)	See Common Pre-Conditions .		
Trigger event	The CMMS receives a valid Master Data Request		
Steps	Step Name	Step Description	Actor
	Process Master Data Request	CMMS receives and processes the Master Data Request.	CMMS
	Initiate Dispatch of Master Data to the ISS Contractor	On a valid Master Data Request, Canada will initiate the transfer of Master Data elements to the ISS Contractor.	Canada Authorized Person
	Send Master Data	The CMMS / CSS triggers transfer of Master Data to the ISS Contractor.	CMMS / CSS
	Continue with Common BUC Steps		

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Postcondition(s)	See Common Post-Conditions .
Notes	

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2.7.3 2.1.3 Master Data Request Error [N2.2.2.1.16]

Scenario Name	2.1.3 Master Data Request Error [N2.2.2.1.16]																	
Business Process	This scenario occurs in the following business processes: <ul style="list-style-type: none">Send Platform Data to ISS Contractor																	
Business Context	<p>The ISS Contractor will send a Master Data Request to Canada. Canada will process the Master Data Request. If the request is not valid, Canada will generate an error and send the error to the ISS Contractor.</p> <p>Send Platform Data to ISS Contractor</p> <ul style="list-style-type: none">The ISS Contractor will initiate Master Data request using the document authorization number corresponding to the ship data being requested that will be evaluated by Canada. If the request is invalid, Canada will send the 'Master Data Request Error' message to the ISS Contractor; otherwise Canada will dispatch the Master Data to the ISS Contractor via the EDE.																	
Precondition(s)	See Common Pre-Conditions .																	
Trigger event	Canada receives an invalid Master Data Request.																	
Steps	<table><tr><th>Step Name</th><th>Step Description</th><th>Actor</th></tr><tr><td>Receive Master Data Request</td><td>Canada receives a Master Data Request from the ISS Contractor</td><td>CMMS / CSS</td></tr><tr><td>Validate Master Data Request</td><td>Canada validates the Master Data Request.<ul style="list-style-type: none">If the request is invalid, Canada will send the 'Master Data Request Error' message to the ISS Contractor;</td><td>Canada Authorized Person</td></tr><tr><td>Send Master Data Error</td><td>Send the Master Data Request error message to the ISS Contractor.</td><td>CMMS / CSS</td></tr><tr><td colspan="2">Continue with Common BUC Steps</td><td></td></tr></table>			Step Name	Step Description	Actor	Receive Master Data Request	Canada receives a Master Data Request from the ISS Contractor	CMMS / CSS	Validate Master Data Request	Canada validates the Master Data Request. <ul style="list-style-type: none">If the request is invalid, Canada will send the 'Master Data Request Error' message to the ISS Contractor;	Canada Authorized Person	Send Master Data Error	Send the Master Data Request error message to the ISS Contractor.	CMMS / CSS	Continue with Common BUC Steps		
	Step Name	Step Description	Actor															
	Receive Master Data Request	Canada receives a Master Data Request from the ISS Contractor	CMMS / CSS															
	Validate Master Data Request	Canada validates the Master Data Request. <ul style="list-style-type: none">If the request is invalid, Canada will send the 'Master Data Request Error' message to the ISS Contractor;	Canada Authorized Person															
	Send Master Data Error	Send the Master Data Request error message to the ISS Contractor.	CMMS / CSS															
Continue with Common BUC Steps																		
Postcondition(s)	The ISS Contractor receives Master Data Request error from Canada. The ISS Contractor will process the error, and can correct and reinitiate the Master Data Request as required.																	
Notes																		

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2.7.4 2.1.4 Acknowledgement of Data Acceptance [N2.2.2.1.17]

Scenario Name	2.1.4 Acknowledgement of Data Acceptance [N2.2.2.1.17]		
Business Process	This scenario occurs in the following business processes: <ul style="list-style-type: none">Send Platform Data to ISS Contractor		
Business Context	<p>Canada will dispatch Master Data to the ISS Contractor via EDE. The ISS Contractor will receive the Master Data in their system of record. After successful receipt the ISS Contractor will send an Acknowledgement of Data Acceptance to Canada via EDE. Canada will receive the Master Data Acknowledgement into CMMS/CSS.</p> <p>Send Platform Data to ISS Contractor</p> <ul style="list-style-type: none">The ISS Contractor validates the received Master data. If the validation is not successful, ISS Contractor terminates processing the Master Data and notifies Canada of the error conditions. Upon successful validation of Master data, the ISS Contractor loads Master Data into their systems and sends the acknowledgement of data acceptance to Canada through the EDE.		
Precondition(s)	See Common Pre-Conditions .		
Trigger event	The ISS Contractor receives Master Data from Canada		
Steps	Step Name	Step Description	Actor
	Receive Master Data	The ISS Contractor receives the Master Data sent by Canada.	ISS Contractor
	Process Master Data	The ISS Contractor Accepts and Acknowledges the data sent by Canada.	ISS Contractor
	Send Master Data Acknowledgement	The ISS Contractor sends Master Data Acknowledgement message.	ISS Contractor
	Continue with Common BUC Steps		
Postcondition(s)	See Common Post-Conditions .		
Notes			

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2.8 Information Requirements

Each request of a dataset and the subsequent outbound exchange of the dataset from Canada to the ISS Contractor will have a primary key, consisting of:

- Request Authorization Key

2.9 Special Requirements

None identified.

3. Functional Data Definition³

The data elements which make up a Master Data Request dataset are enumerated here.

3.1 Business Entity Definition – Master Data Request

Name	Definition	Type	Length
Request Authorization Key	Unique key for the specific request for Master Data from Canada	Char	10

3.2 Business Entity Definition – MMR (N2.2.2.1.18)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
Manufacturer Part Number (MPN)	Designated Manufacturer's Part Number (MPN) <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
CAGE Code	Commercial And Government Entity (CAGE) code number that uniquely identifies the manufacturer of the part or product, sometimes produced under government contract.	Char	5
Description (EN)	English Item Short Description	Char	40
Description (FR)	French Item Short Description	Char	40
Base Unit of Measure	Standard Unit of Measure of the Material. Unit of Issue for Part Issue and Part Return	Char	3
Batch Management	Value = Y if Material is managed in Batches	Char	1
EMR Indicator	Value = Y if Material requires a Manufacturer Serial Number	Char	1

³ This is a **functional** view of the data. A detailed schema including fields for parent/child structure, metadata to manage exchange with the ISS Contractor, more specific types, etc. will be specified in the Service Specification that supports this business use case.

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Name	Definition	Type	Length
Reparability Code	Indicator to identify reparability of a material	Char	1
PRT Indicator	Production Resource Tool Indicator	Char	1
HAZMAT Indicator	Indicator to identify Hazardous Material	Char	1
ITAR Indicator	Indicator to identify ITAR relevant Material	Char	1
Min Stock	Minimum Stock Level	Float	10, 3
Max Stock	Maximum Stock Level	Float	10, 3
ERN1	Equipment Registration Number (End Item or Assembly) where materiel is used	Char	8
QPE1	Quantity Per Equipment (per End Item) for ERN1	Int	4
ERN2	Equipment Registration Number (End Item or Assembly) where materiel is used	Char	8
QPE2	Quantity Per Equipment (per End Item) for ERN2	Int	4
ERN3	Equipment Registration Number (End Item or Assembly) where materiel is used	Char	8
QPE3	Quantity Per Equipment (per End Item) for ERN3	Int	4
Proposed NSC	Proposed NATO Stock Class (First 4 digits of NSN)	Char	4
Proposed NCC	Proposed NATO Country Code (Next 2 digits of NSN)	Char	2
Proposed IIN	Proposed Item Identification Number (Last 7 digits of NSN)	Char	7
UOI Price	Price per UOI	Float	9, 2
UOI	Unit of Issue	Char	3
UOI Conversion Factor	Unit of Issue conversion factor	Int	5
SMC	Supply Manager Code	Char	3
SMR Code	Source, Maintenance and Recoverability Code	Char	6
MRC	Maximum Repair Cost	Float	9, 2
GSM Indicator	Government Supplied Material Indicator	Char	1

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Name	Definition	Type	Length
Gross Weight	Gross Weight	Float	10, 3
Net Weight	Net Weight	Float	10, 3
UOW	Unit of Weight	Char	3
Item Length	Length (may be used to calculate Volume)	Float	10, 3
Item Depth	Depth (may be used to calculate Volume)	Float	10, 3
Item Width	Width (may be used to calculate Volume)	Float	10, 3
UOL	Unit of Length	Char	3
Item Volume	Volume	Float	10, 3
UOV	Volume_unit	Float	10, 3
Packed Length	Length (may be used to calculate Volume)	Float	10, 3
Packed Depth	Depth (may be used to calculate Volume)	Float	10, 3
Packed Width	Width (may be used to calculate Volume)	Float	10, 3
Packed Volume	Volume_unit	Float	10, 3
Shelf Life	Total Shelf Life	Integer	3
Material Lead Time	Material Lead Time for Delivery	Integer	3

3.3 Business Entity Definition – MPL (N2.2.2.1.19)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
Node ID	Node Name, unique identifier of node	Char	40
Node Type	Node Type AN = Access/Root Node (one per MPL) VN = View Node, functional LCN (FLOCs) SN = Structure Node, physical LCN (EMR)	Char	2
Description (EN)	English Node Description	Char	60

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Name	Definition	Type	Length
Description (FR)	French Node Description	Char	60
Class-Characteristics	Associated Class and Characteristics	Char	60
Parent Node	Parent Node Name, unique identifier of parent node	Char	40
Material Variant ID	Variant Identification for Material Variants	Char	8
Manufacturer Part Number (MPN)	Designated Manufacturer's Part Number (MPN) <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
CAGE Code	Commercial And Government Entity (CAGE) code number that uniquely identifies the manufacturer of the part or product, sometimes produced under government contract.	Char	5
Quantity	Quantity of Material required for Node	Float	10, 3
Unit of Measure	Base Unit of Measure of Material	Char	3
Object Dependencies	Restrict material variant effectivity based on configuration parameters	Char	2000

3.4 Business Entity Definition – FFFC (N2.2.2.1.20)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
FFFC ID	FFFC Identification number	Char	18
Manufacturer Part Number (MPN)	Designated Manufacturer's Part Number (MPN) <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN	Char	34

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
	of 31 characters or less.		
CAGE Code	Commercial And Government Entity (CAGE) code number that uniquely identifies the manufacturer of the part or product, sometimes produced under government contract.	Char	5

3.5 Business Entity Definition – FLOC (N2.2.2.1.21)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
FLOC ID	Functional Location Identifier	Char	30
Description (EN)	English Functional Location Description	Char	40
Description (FR)	French Functional Location Description	Char	40
Catalog Profile	Key of Reporting Schema (FLOC and MER should be the same)	Char	9
Parent FLOC ID	Parent Functional Location Identifier	Char	30
Main Work Center	Main Work Center of the Functional Location	Char	8
BOM MPN	Bill of Material Manufacturer Part Number <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
BOM CAGE	BOM CAGE Code	Char	5
BOM Structure Element Indicator	Indicates PM assembly	Char	1
ERN	FLOC Equipment Registration Number	Char	8
ERN LOC	FLOC ERN Location	Char	3
Frame ID	FLOC Frame Identification Code	Char	20
Compartment	FLOC Compartment Identification Code	Char	5

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3.6 Business Entity Definition – EMR (N2.2.2.1.22)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
MPN	EMR Manufacturer Part Number <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
CAGE	EMR Cage Code	Char	5
Serial Number	EMR Manufacturer Serial Number	Char	30
MER Identifier	Master Equipment Identification (Example, Ship ID)	Char	14
Description	Description of Equipment	Char	40
Description French	French Description of Equipment	Char	40
Object Type	Type of EMR/Technical Object	Char	10
Location	Key for EMR Location within the Maintenance Plant	Char	10
Catalog Profile	Key of Reporting Schema (FLOC and MER should be the same)	Char	9
Structure Element Indicator	PM Assembly Indicator – Y or N value	Char	1
Parent FLOC Identifier	EMR Parent Functional Location	Char	30
Parent EMR MPN	Manufacturer Part Number of the next higher-level equipment <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Parent EMR CAGE	CAGE code number that uniquely identifies the	Char	5

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
	next higher-level equipment.		
Parent EMR Serial Number	Serial Number of the next higher-level piece of containing equipment	Char	30
Main Work Center	EMR Main Work Center	Char	8
BOM MPN	EMR Bill of Materials Manufacturer Part Number. Populated if the EMR is associated with a BOM. <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
BOM CAGE	EMR Bill of Materials CAGE code. Populated if the EMR is associated with a BOM.	Char	5
BOM Assembly	EMR Bill of Materials PM Assembly Indicator	Char	3
ERN	EMR Equipment Registration Number	Char	8
ERN Location	EMR Equipment Registration Number Location	Char	3
Frame ID	EMR Frame Identification	Char	20
Compartment ID	EMR Compartment Identification	Char	5
Functional Identifier	Node ID within the allowed structure	Char	40

3.7 Business Entity Definition – MTL (N2.2.2.1.23)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
External MTL ID	Unique MTL Identifier	Char	40
Task List Type	Task List functionality classification	Char	1
Description	Task List Description	Char	40
Long Text	Task List additional text	Char	2000
Maintenance Strategy	Identification of Maintenance Strategy/Cycle Set	Char	6

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Assembly MPN	Assembly/Construction Type MPN for Task List; Material BOM <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Assembly CAGE	Assembly/Construction Type CAGE for Task List; Material BOM	Char	5
Class	Task List Class Name	Char	18
Characteristic	Task List Class Characteristic Name	Char	30
Characteristic Value	Task List Class Characteristic Value	Char	30
Operation Number	Task List Operation/Activity Number	Char	4
Sub-Operation Number	Task List Sub-Operation Number	Char	4
Operation Description	Task List Operation Short Description	Char	40
Operation Long Text	Task List Operation Long Description	Char	2000
Operation Standard Text Key	Task List Operation Standard Text Key	Char	7
Operation Work Center	Operation Work Center	Char	8
Operation Capacity	Number of persons required for this operation	Int	3
Operation Duration	Duration of the operation	float	4, 1
Operation Duration Unit	Unit of measure for the duration	Char	3
Operation Work	Amount of work to perform the operation	float	6, 1
Operation Work Unit	Unit for the amount of work	Char	3
Operation Calculation Key	Key to determine how the duration, capacity and work are calculated	Char	1
Operation Basic Date	Operation Basic Date	Date	8
Operation Amended Date	Operation Amended Date	Date	8
Operation Package 1	Indicates if the operation is performed in the 1 st package of the maintenance strategy	Char	2
Operation Package 2	Indicates if the operation is performed in the 2 st package of the maintenance strategy	Char	2

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Operation Package 3	Indicates if the operation is performed in the 3 st package of the maintenance strategy	Char	2
Operation Package 4	Indicates if the operation is performed in the 4 th package of the maintenance strategy	Char	2
Operation Package 5	Indicates if the operation is performed in the 5 th package of the maintenance strategy	Char	2
Operation Package 6	Indicates if the operation is performed in the 6 th package of the maintenance strategy	Char	2
Operation Package 7	Indicates if the operation is performed in the 7 th package of the maintenance strategy	Char	2
Operation Package 8	Indicates if the operation is performed in the 8 th package of the maintenance strategy	Char	2
Operation Package 9	Indicates if the operation is performed in the 9 th package of the maintenance strategy	Char	2
Operation Package 10	Indicates if the operation is performed in the 10 th package of the maintenance strategy	Char	2
Operation Package 11	Indicates if the operation is performed in the 11 th package of the maintenance strategy	Char	2
Operation Package 12	Indicates if the operation is performed in the 12 th package of the maintenance strategy	Char	2
Operation Package 13	Indicates if the operation is performed in the 13 th package of the maintenance strategy	Char	2
Operation Package 14	Indicates if the operation is performed in the 14 th package of the maintenance strategy	Char	2
Operation Package 15	Indicates if the operation is performed in the 15 th package of the maintenance strategy	Char	2
Operation Package 16	Indicates if the operation is performed in the 16 th package of the maintenance strategy	Char	2
Operation Package 17	Indicates if the operation is performed in the 17 th package of the maintenance strategy	Char	2
Operation Package 18	Indicates if the operation is performed in the 18 th package of the maintenance strategy	Char	2

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Operation Package 19	Indicates if the operation is performed in the 19 th package of the maintenance strategy	Char	2
Operation Package 20	Indicates if the operation is performed in the 20 th package of the maintenance strategy	Char	2
Component Operation	Operation in which the component is used	Char	4
Component MPN	Component Manufacturer Part Number <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Component CAGE	Component CAGE Code	Char	5
Component Quantity	Component Quantity	Float	10, 3
Component UOM	Component Quantity Unit of Measure	Char	3
PRT Operation	Operation in which the Production Resource Tool is used	Char	4
PRT MPN	PRT Manufacturer Part Number <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
PRT CAGE	PRT CAGE Code	Char	5
PRT Quantity	PRT Quantity	Float	10, 3
PRT UOM	PRT Quantity Unit of Measure	Char	3
PRT Standard Text Key	PRT Standard Text Key	Char	7

3.8 Business Entity Definition – MP (N2.2.2.1.24)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Action	Identification of Create/Change/Delete of data	Int	1
Name	Maintenance Plan Name and Unique Identifier	Char	40
Type	Maintenance Plan Type (Single Cycle = S, Multi Cycle = M or Strategy = T)	Char	1
Category	Categorizes the maintenance plans and controls the allowed call object	Char	2
Strategy	Key identifier which defines the periodicity (Strategy Only)	Char	6
Late Shift Factor	When a call is completed late, the shift factor will delay the subsequent calls planned date, expressed as a percentage of the completion lag (Single Cycle Only)	Int	3
Late Tolerance	When a call is completed late, the subsequent calls planned date will only be shifted if the completion date falls outside of the tolerance, where the tolerance is expressed as a percentage	Int	3
Early Shift Factor	When a call is completed early, the shift factor will advance the subsequent calls planned date, expressed as a percentage of the completion lead (Single Cycle Only)	Int	3
Early Tolerance	When a call is completed early, the subsequent calls planned date will only be shifted if the completion date falls outside of the tolerance, where the tolerance is expressed as a percentage (Single Cycle Only)	Int	3
Operator	For multi-cycle plans, indicates whether an And or OR relationship exists between the cycles.	Char	3
Cycle Start Date	The date of when the current call starts.	Date	8
Completion Requirement	When set, the preceding call object must be complete prior to generating the next call object	Char	1
Cycle Length	Interval after which a task becomes due	Float	17
Cycle Unit	Cycle Unit of Measure	Char	3
Cycle Set Sequence	If the cycle lengths or maintenance items vary	Char	2

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
	between calls, the cycle set sequence defines the order (Multi-Cycle Only)		
Cycle Offset	Maintenance Cycle initial offset, when the cycle becomes first due	Float	17
Cycle Text	Maintenance Cycle short text	Char	26
Cycle Measurement Name	Measurement name	Char	30
Cycle Measurement Name Description	Measurement name Characteristic	Char	30
Cycle Measurement Point Position	Measurement Point Position	Char	20
Cycle Measurement Point Name	Measurement Point Characteristic	Char	30
Cycle Start Counter	The accumulated counter reading of when the current call starts.	Float	17
Maintenance Item Description	Maintenance Plan Item Description	Char	40
Maintenance Item FLOC	Maintenance Item Functional Location Identifier	Char	30
Maintenance Item EMR MPN	Manufacturer Part Number for Maintenance Item Equipment Master Record <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Maintenance Item EMR CAGE	CAGE Code for Maintenance Item Equipment Master Record	Char	5
Maintenance Item EMR Serial Number	Manufacturer Serial Number for Maintenance Item Equipment Master Record	Char	30
Maintenance Item Activity Type	Identification of Maintenance Item Maintenance Activity Type	Char	3
Maintenance Item External MTL ID	Unique MTL Identifier	Char	40
Maintenance Item First Level	Indicates maintenance item is critical to the operation of the ship	Char	1

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Maintenance Item Safety Critical	Indicates maintenance item is critical for safety reasons	Char	1
Maintenance Item Dock Dependant	Indicates the maintenance item is docking dependent	Char	1
Maintenance Item Design Authority	Indicates maintenance item cannot be deviate without Design Authority approval	Char	1

3.9 Business Entity Definition – BOM (N2.2.2.1.25)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
MPN	Bill of Material Manufacturer Part Number <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
CAGE	BOM CAGE Code	Char	5
Structure Element Indicator	Indicates if the Bill of Material is a PM Assembly	Char	1
Structure Element Indicator Description	Description of Structure Element MMR	Char	40
Item Number	Item number	Char	4
Item MPN	BOM Item Manufacturer Part Number <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Item CAGE	BOM Item CAGE Code	Char	5
Item Quantity	Quantity of BOM Item Material	Float	10, 3

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Item Structure Element Indicator	Indicates if the BOM Item is a PM Assembly	Char	1
Item Structure Element Indicator Description	Description of Item Structure Element MMR	Char	40
Sort String	Field for sorting BOM items. Not required for all fleets.	Char	10
Item Text	Additional description of item	Char	40
Line of Repair	Not required for all fleets	Char	3

3.10 Business Entity Definition – MPOINT (N2.2.2.1.26)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10
Action	Identification of Create/Change/Delete of data	Integer	1
FLOC Identifier	Functional Location Identifier against which the Measurement Point is associated.	Char	30
Manufacturer Part Number (MPN)	Designated Manufacturer's Part Number (MPN) against which the Measurement Point is associated. <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
CAGE Code	Commercial And Government Entity (CAGE) code number that uniquely identifies the manufacturer of the part or product, sometimes produced under government contract against which the Measurement Point is associated.	Char	5
Serial Number	Manufacturer Serial Number against which the Measurement Point is associated	Char	30
Measurement Position	An identifier used to describe the position of the measuring point in relation to the technical object.	Char	20
Measurement Name	Measurement Point Name. Short form or code	Char	30

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
	identifying the measurement		
Measurement Position Description	Measurement Point Description	Char	40
Category	Measurement Point Category	Char	1
Counter Indicator	Identification if Measurement Point is counter based (X = Counter Based)	Char	1
Code Group	Valuation Codes for Measurement Readings	Char	8
Max Counter Reading	Max Reading for Measurement Point	Float	13,2
Annual Estimate	Estimated counters	Float	13,2
Short Text	Additional Maintenance Plan information	Char	40
Parent FLOC ID	Functional location from which measurement documents are transferred	Char	30
Parent Manufacturer Part Number (MPN)	Manufacturer's Part Number of the EMR from which measurement documents are transferred <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Parent CAGE Code	Commercial And Government Entity (CAGE) code number of the EMR from which measurement documents are transferred	Char	5
Parent Serial Number	Manufacturer Serial Number of the EMR from which measurement documents are transferred	Char	30
Parent Measurement Position	Position of the measurement point from which measurement documents are transferred	Char	20
Parent Measurement Name	Characteristic of the measurement point from which measurement documents are transferred	Char	30

3.11 Business Entity Definition – MDOC (N2.2.2.1.27)

Name	Definition	Type	Length
Request Authorization Key	Unique key that was used for the specific request for Master Data from Canada	Char	10

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Action	Identification of Create/Change/Delete of data	Integer	1
CAGE Code	Commercial And Government Entity (CAGE) code number that uniquely identifies the manufacturer of the part or product, sometimes produced under government contract against which the Measurement Document is associated.	Char	5
MPN	Manufacturer Part Number for the Equipment against which the Measurement Document is associated. <i>Note:</i> Canada-supplied parts may have an MPN up to 34 characters in length. ISS Contractor-supplied parts must have an MPN of 31 characters or less.	Char	34
Serial Number	Manufacturer Serial Number for the Equipment against which the Measurement Document is associated	Char	30
External FLOC Identifier	A unique Identifier for the FLOC relative to its external system.	Char	30
Measurement Name	Short form or code identifying the measurement. (Example, OPERATING_HOURS)	Char	30
Measurement Name Description	The description of the Measurement Name. (Example, Engine Diesel PDE)	Char	30
Measurement Position	A value that indirectly represents the physical or logical place at which a measurement is taken. Required to distinguish between the same EMR containing multiples of the same Measurement Name	Char	20
Measurement Position Description	The description of the Measurement Position.	Char	40
Measurement	The date and time the measurement is taken	Datetime	

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Date/Time	for the equipment/FLOC.		
Current Measurement reading	<p>This field will contain either counter or non-counter readings.</p> <p>When a counter reading, this can be either:</p> <ol style="list-style-type: none">1. The user-entered value2. A system-determined value if the user entered a difference value (calculated by adding the difference reading value to the previous Current Measurement reading.) <p>For a counter, this (generally) increments from one Measurement Document to another but it also could be reset to a new value after, say, an R&O. i.e., when a Counter Replacement is required.</p>	Float	16
Accumulated Measurement Reading	<p>Applies only to counters. The total accumulated reading value of the counter since its inception; when a counter replacement (see Current Measurement Reading) occurs, the Accumulated Measurement Reading is not updated; subsequent updates to the Current Measurement reading will then start incrementing the Accumulated Measurement Reading value.</p> <p>Unless a counter replacement has been performed or the Accumulated Measurement Reading has been set externally this field contains the same value as the Current Measurement Reading.</p>	Float	16
Measurement document Short text	This entity may provide additional information.	Char	40
Measurement Reading Code	<p>The value chosen by the user for the Measurement Reading ID</p> <p>(In CMMS this is the measurement reading Valuation Code)</p> <p>(Example, Measurement Reading Value = 0001)</p>	Char	4

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BUC 2. 1 Exchange Master Data - Outbound

Name	Definition	Type	Length
Measurement Reading Code Description	The description of the Measurement Reading Value (Example, Measurement Reading Value Description = "ARCTIC")	Char	40
Accumulated Measurement Reading Reset	Generally used to enter an initial value for a counter and the basis of which all further counter readings or counter reading differences are to be entered. Can also be used to correct an incorrect value. Value of "Y", when set, otherwise value of 'N'. Applies only to counters.	Char	1
MER Identifier	A unique identifier of the platform for which this Measurement Document applies.	Char	14
Notification Identifier	A unique identifier of a maintenance notification in the CMMS from which measurements were created.	Char	12
Long Text	Long text that can be captured against measurement document	Char	2GB

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4. Issues and Exceptions

None identified.

5. Business Process Flows

Refer to Navy CMMS Data Initialization Business Process document, [Ref. 1] for diagrams that capture business process flow supported by this BUC.

6. Definitions, Acronyms, Abbreviations

Term	Description
BOM	Bill of Materials
BUC	Business Use Case
CAGE	Commercial And Government Entity
CMMS	Canada Maintenance Management System
CSS	Canada Supply System
EDE	Electronic Data Exchange
EIE	Electronic Information Exchange
EMR	Equipment Master Record
ERN	Equipment Registration Number
FFFC	Fit-Form-Function-Class
FLOC	Functional Location
HoP	Handover Point
ISS	In Service Support
ITAR	International Traffic in Arms Regulations
MDOC	Measurement Document
MER	Master Equipment Record
MMR	Material Master Record
MP	Maintenance Plan
MPL	Master Parts List
MPN	Manufacturer's Part Number
MPOINT	Measurement Point
MTL	Maintenance Task List
PBC	Performance Based Contracting
QPE	Quantity Per Equipment
SCMS	Supply Chain Management System
UOM	Unit of Measure

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7. Document Control

7.1 Document History

Version Number	Description	Date
1.0	Ready for Navy RFP	14 September 2015
1.1	Incorporates comments from review by Navy	28 September 2015

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