Electronic Information Environment (EIE) Project

Business Use Case (BUC)
BUC 7.3 Navy - Exchange Engineering Change Notification Data – ISS Contractor to Canada

EIE Project

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Table of Contents

1 EIE BUSINESS USE CASE OVERVIEW 1

1.1 INTRODUCTION 1
1.2 PURPOSE 1
1.3 INTENDED AUDIENCE 2
1.4 REFERENCES AND TRACEABILITY 2

2 BUC 7.3 NAVY - EXCHANGE ENGINEERING CHANGE NOTIFICATION DATA - ISS CONTRACTOR 3

2.1 OVERVIEW 3
2.2 SUB PROCESSES AND ACTIVITIES SUPPORTED 4
2.3 BUSINESS RULES AND ASSUMPTIONS 4
2.4 ACTORS 4
2.5 COMMON PRE-CONDITIONS 5
2.6 COMMON POST-CONDITION(S) 6
2.7 COMMON BUC STEPS 6
2.8 SCENARIOS 6
2.8.1 7.3.1 Update Engineering Change Notification - ISSC - Full [N1.4.3.1.6] 7
2.9 INFORMATION REQUIREMENTS 8
2.10 SPECIAL REQUIREMENTS 8

3 FUNCTIONAL DATA DEFINITION 9

3.1 DATA ENTITIES DEFINITION 9

4 ISSUES AND EXCEPTIONS 20

5 BUSINESS PROCESS FLOWS 20

6 DEFINITIONS, ACRONYMS, ABBREVIATIONS 20

7 DOCUMENT CONTROL 21

7.1 DOCUMENT HISTORY 21

List of Figures

Figure 2-1 Navy - Exchange Engineering Change Notification Data - ISS Contractor 5

List of Tables

Table 3-1 Data Entities Definition 9

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1 EIE Business Use Case[1] Overview

1.1 Introduction

Performance Based Contracting (PBC) is a set of guidelines to Canada Major Capital Projects (MCPs) on how to model a Platform acquisition and in-service support (ISS) processes. The configuration management process has been endorsed by the PBC program. In this model the ISS Contractor is responsible for managing the Royal Canadian Navy ship class configuration in accordance with contractually agreed requirements. Canada shall ultimately approve the new or changed platform configuration and maintain current configuration through maintenance activities in the Canada Maintenance Management System (CMMS). In order for Canada and the ISS Contractor to fulfill their obligations under PBC specific datasets must be exchanged between Canada and the ISS Contractor.

The collection of information systems provided by Canada and the ISS Contractor 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 PBC between Canada and the ISS Contractor is collectively known as Electronic Data Exchange (EDE) within Canada. The EDE components span application nodes, network zones and the Internet.

1.2 Purpose

The CMMS will be storing the allowable Ship Class configuration and maintaining the actual Ship Class configuration. Engineering change requests will be recorded in the CMMS to track implementation of the configuration changes required by an engineering change request. Exchange of engineering change related data involves new exchange business processes between CMMS and the ISS Contractor data consumers which complement already documented configuration management business processes.

This Business Use Case (BUC) describes the exchange of Maintenance Notification records between Canada and the ISS Contractor for a Navy Ship Class 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/.

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1.3 Intended Audience

The intended audience for this BUC includes:

- The ISS Contractor(s) who require detail of their business service-level interactions, benefits and obligations under PBC.
- All Canada personnel implementing PBC.
- Solution Architects who will define a Business Service Model for the business service(s) described here.
- Functional Testers who will use the BUC 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] PBC Business Process Catalogue Annex O: Navy Configuration Management Process Model - In the Context of Performance Based Contracting (PBC)

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

Reference	Section
[Ref. 1] PBC Business Process Catalogue: Annex O	Annex O – Navy Configuration Management Process Model

2 BUC 7.3 Navy - Exchange Engineering Change Notification Data - ISS Contractor

This BUC will identify processes and activities and define scenarios which apply to the engineering change notifications coming from the ISS Contractor. Engineering change notifications have several distinct parts (See Functional Data Definition). For the purpose of data exchange, a notification with some or all of its parts will be sent from the ISS Contractor to Canada. "**Notification datasets**" will be used to refer to a set of notifications, including respective parts, prepared for exchange.

2.1 Overview

Identifier	BUC 7.3
Name	Navy - Exchange Engineering Change Notification Data - ISS Contractor
Business goal	Send engineering change notification dataset to Canada as necessary to allow the ISS Contractor to fulfill its obligations under PBC.
Stakeholders	Canada and the ISS Contractor(s)
Workflow/interaction	Exchange of engineering change notification dataset from the ISS Contractor to Canada as defined at multiple points in the configuration management business processes. Reference [Ref. 1].
Processes	Information exchange is automated (system to system). The frequency of exchange is determined by Canada and each ISS Contractor. Some error scenarios may require manual intervention.
Context	Business Domain: Configuration Management Functional Area: Configuration Control • Engineering Change Options Analysis • Engineering Change Package Development
Period of Time	The full lifecycle of the subject platform.
Description	If the ISS Contractor is assigned to perform the engineering change options analysis and/or the development of the engineering change package, the ISS Contractor will use its own Configuration Management System (CMS) to manage those tasks. The ISS Contractor will report the results to Canada via the means outside the EDE. Upon completion of the task(s), the ISS Contractor will send the engineering change notification with updated user status via the EDE.

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2.2 Sub Processes and Activities Supported

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

2.3 Business Rules and Assumptions

1. The CMMS and EDE systems shall ensure that the engineering change notification dataset for a platform is received from the ISS Contractor's system which is properly authenticated and authorized to send the engineering change data for that Navy Ship Class.

2.4 Actors

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

Role Name	Role Description / Responsibilities
ISS Contractor	• Provides a system that will have the ability to: – Process and transmit the engineering change notification data to Canada, and – Acceptance of the acknowledgement of data from Canada
EDE	• Transports and transforms the engineering change notification data.
CMMS	• Receives and processes engineering change notification data.

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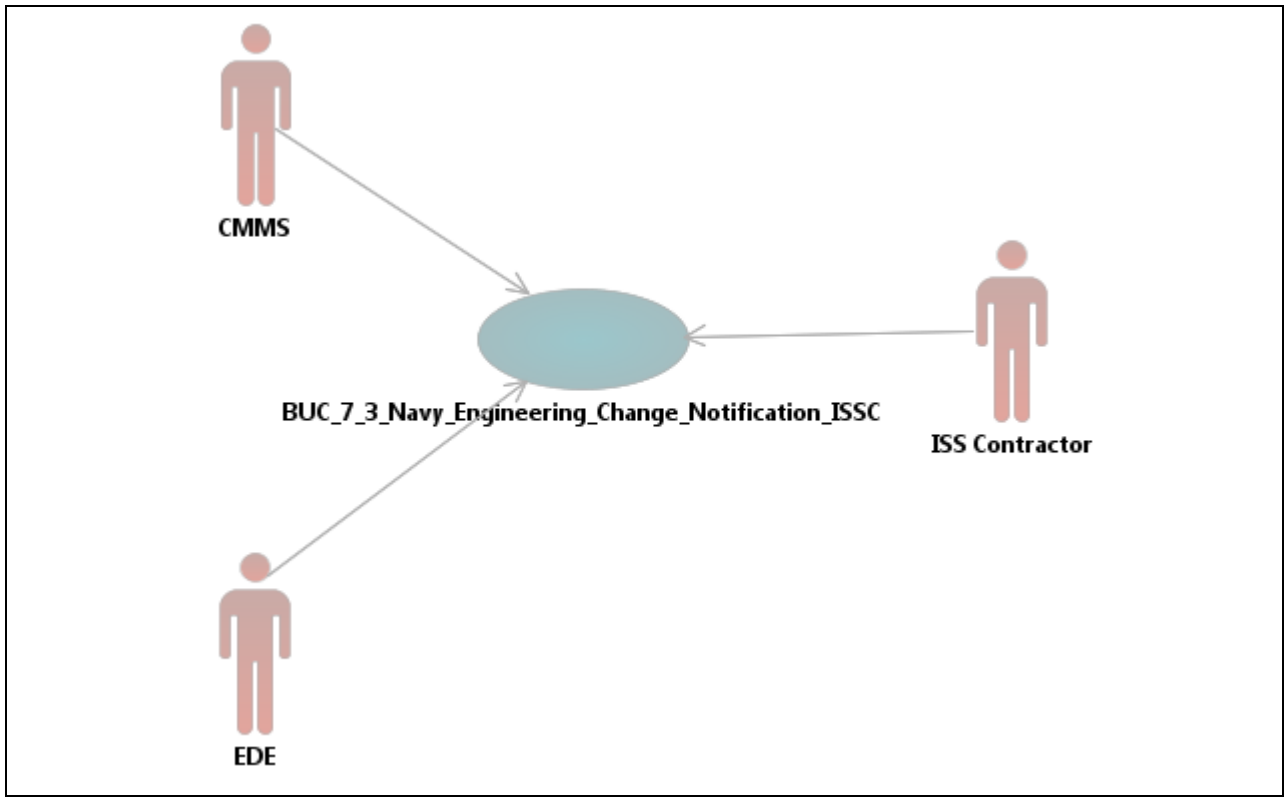

Figure 2-1 Navy - Exchange Engineering Change Notification Data - ISS Contractor

2.5 Common Pre-Conditions

These apply to every scenario unless explicitly stated otherwise.

1. As per PBC, engineering change notification datasets be sent to Canada CMMS System;
2. Canada and the ISS Contractor have agreed upon engineering change notification dataset format (see Functional Data Definition);
3. Canada and the ISS Contractor have agreed upon engineering change notification data exchange mechanism.

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2.6 Common Post-Condition(s)

The following applies to every scenario unless explicitly stated otherwise.

1. Engineering change notification dataset has been received by Canada and an acknowledgement has been received by the ISS Contractor.

2.7 Common BUC Steps

Each scenario defined below includes the following common steps:

Common Steps	Step Description	Actor
Receive notification data	EDE receives the notification.	EDE
Convert notification data to CMMS format	EDE converts data to a format acceptable by CMMS.	EDE
Send notification data to CMMS	EDE sends notification datasets to CMMS, in accordance with transmission definition agreed to with CMMS.	EDE
Capture notification record in CMMS	CMMS receives and processes the notification.	CMMS

2.8 Scenarios[2]

In the following scenarios the pre-condition and trigger serve to uniquely identify the engineering change notification exchange in the context of a configuration management business process. This supports direct traceability between configuration management business processes and exchange use case scenarios.

Note: The numeric identifier that appears in square brackets besides each scenario name is an identifier that can be used to locate the event in the business process flow as per [Ref. 1].

[2] A scenario corresponds to a specific activity in a configuration management business process when a triggering event occurs which causes an engineering change notification dataset exchange. Picture the configuration management business process as proceeding horizontally through recognition of an engineering change situation, through fault isolation, initiation through completion of engineering change activities, certification of completion of engineering change implementation activity, possibly a trial. Each exchange use case scenario corresponds to a vertical slice from a configuration management business process which results in an engineering change notification being transferred from the ISS Contractor.

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2.8.1 7.3.1 Update Engineering Change Notification - ISS Contractor - Full [N1.4.3.1.6]

Scenario Name	**7.3.1 Update Engineering Change Notification - ISS Contractor - Full [N1.4.3.1.6]**
Business Process	This scenario occurs in the following business processes: • Engineering Change Options Analysis • Engineering Change Package Development
Business Context	Engineering Change Options Analysis • Upon completion of the options analysis, the ISS Contractor will send the EC options analysis package to Canada via the CE, and send the EC notification with updated user status 'Ready for Review' via the EDE. Engineering Change Package Development • The ISS Contractor will develop and document the EC package, send the package to Canada via the CE and send the EC notification with updated user status via the EDE.
Precondition(s)	See Common Pre-Conditions.
Trigger event	The ISS Contractor completes tasks assigned by Canada.
Steps	

Step Name	Step Description	Actor
Update the User Status of the engineering change notification	The Actor chooses to update an engineering change notification, including additional comments if required, and transmits it to Canada.	ISS Contractor
Continue with Common BUC Steps		

Postcondition(s)	See Common Post-Conditions.
Notes	

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2.9 Information Requirements

Details on the data elements of an engineering change notification - ISSC are provided in Section 3.

2.10 Special Requirements

Notification must include its state, expressed through agreed status codes.

ISS Contractor may include additional information by populating ISS Contractor Comments element.

In all cases, the notification already exists in CMMS.

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3 Functional Data Definition

The data elements which make up an engineering change notification are enumerated in this section. A detailed technical message schema for exchange of datasets will be provided following the awarding of the ISS contract.

3.1 Data Entities Definition

The Data Entities Definition Table 3-1 below contains examples of the reference data. Specific and accurate reference data should be obtained from DND through official channels prior to using the reference data in downstream design and implementation activities.

Table 3-1 Data Entities Definition

Name	Description	Type	Length
Notification Identifier	A unique identifier for a maintenance notification in the CMMS that will need to be replayed by the ISSC.	Char	12
Record Timestamp	The timestamp a Maintenance Notification record updated	Datetime	
Notification Type	A notification type dictates which fields are available within a notification including the list of available user status values. **Values: *Notification Type*** (Example, N1 Maintenance N2 MEPM (Implement Engineering Changes) NC: EC Part 1 (Pre-implementation Engineering Changes)	Char	2
Problem Short Description	Short description of the problem reported into notification.	Char	40
Download Identifier *(Not applicable for EC notification)*	Download identification number. This applies only if the Health and Usage Monitoring System (HUMS) is available.	Char	64
External FLOC Identifier	Functional Location of the installed equipment (if equipment is identified in the notification).	Char	30
CAGE	Commercial And Government Entity (CAGE) code of the manufacturer associated to the equipment	Char	5

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Name	Description	Type	Length
MPN	Manufacturer part number Note: DND-supplied parts may have an MPN up to 34 characters in length. Industry-supplied parts must have an MPN of 31 characters or less.	Char	34
Serial Number	Manufacturer's Serial number of the part	Char	30
Assembly CAGE	The CAGE code of the Material Master Record (MMR) (assembly) in the notification(header level)	Char	5
Assembly MPN	The MPN of the MMR (assembly) in the notification (header level) Note: DND-supplied parts may have an MPN up to 34 characters in length. Industry-supplied parts must have an MPN of 31 characters or less.	Char	34
Coding Code Group *(Not applicable for EC notification)*	Identifies group identifier of the notification. A means of grouping or classifying notifications. **Values: *Coding Code Group*** (Example, Notification type = ND Coding Code Group = DEV Description = Deviation)	Char	8
Coding Group Description *(Not applicable for EC notification)*	The description of the Code Group	Char	40
Coding Code *(Not applicable for EC notification)*	A specific code associated with the code group. The list of allowed codes is determined by the selected value of the Coding Group. **Values: *Coding Code*** (Example for Coding Code Group DEV coding codes:	Char	4

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Name	Description	Type	Length
	Coding Code = 003, Technical Coding Code = 004, General)		
Coding Code Description *(Not applicable for EC notification)*	The description of the Coding Code.	Char	40
Problem Long Description	Long text of the notification. Captures text, entered by a user, which is beyond 40 characters long.	Char	2 GB
ISS Contractor Comment	Additional long text for the notification supplied by the ISS Contractor. (In CMMS, this content will be appended to Problem Long Description.)	Char	2 GB
MER Identifier	Platform unique identifier as defined by Canada. For the Navy, this is the Ship identifier.	Char	14
External Reference Number	Unique identifier used to report: • Authorizing document number for the engineering change • Service request number for performing off-platform maintenance (back-shop) These are usually externally provided by the configuration authority.	Char	26
External Maintenance Task List Number *(Not applicable for EC notification)*	The industry defined identifier of a maintenance task list.	Char	40
User Status Code	User Status is a field used to validate and approve content of the notification or to depict a business condition such as acceptance.	Char	4
User Status Description	The description of the user status	Char	30
User Status Start Date	Date / time stamp the status was set.	Datetime	
System Status Code *(Not applicable for EC notification)*	Depicts the life cycle status of the Notification. **Values: *System Status Code*** (Example, OSNO Outstanding Notification NOPR Notification in Progress NOCO Notification Closed)	Char	4

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Name	Description	Type	Length
System Status Start Date *(Not applicable for EC notification)*	Date / time stamp the status was set.	Datetime	
System Status Description *(Not applicable for EC notification)*	Description of each individual status.	Char	30
FMEA Item Number *(Not applicable for EC notification)*	This uniquely identifies the Code item. May have associated Damage Code, Object Code, Cause Codes and Activity Codes.	Char	4
Component CAGE (FMEA Item level) *(Not applicable for EC notification)*	Cage code of the manufacturer associated with the Component. The combination of the Component MPN and Component CAGE fields Identifies non-serialized parts that have fault codes recorded against them. The combination of the Component MPN and Component CAGE fields WITHOUT a fault code identifies consumables used in performance of the maintenance activity.	Char	5
Component MPN (FMEA Item level) *(Not applicable for EC notification)*	MPN of the manufacturer associated to the Component. The combination of the Component MPN and Component CAGE fields identifies non-serialized parts that have fault codes recorded against them. The combination of the Component MPN and Component CAGE fields WITHOUT a fault code identifies consumables used in performance of the maintenance activity. Note: DND-supplied parts may have an MPN up to 34 characters in length. Industry-supplied parts must have an MPN of 31 characters or less.	Char	34
Component Defect Quantity (FMEA Item level) *(Not applicable for EC*	The quantity of assemblies against which a fault is recorded for a non-serialized part. A combination of the Component MPN and Component CAGE fields identifies a non-	Integer	10

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Name	Description	Type	Length
notification)	serialized part that has a fault code recorded against this part.		
Damage Code Group (FMEA Item level) *(Not applicable for EC notification)*	Identifies group identifier of the Damage. A means of grouping damage codes. CMMS notification catalogue entry for maintenance history. **Values: *Damage Code Group*** (Example, Damage Code Group = HOWMALF Damage Code Group description = How Malfunctioned Damage Code Group = 001 Damage Code Group description = Fails Tune/ Align/Operate)	Char	8
Damage Code Group Description (FMEA Item level) *(Not applicable for EC notification)*	The description of the Damage Code Group	Char	40
Damage Code (FMEA Item level) *(Not applicable for EC notification)*	Unique identifier of the damage code within the Damage Code Group. **Values: *Damage Code*** (Example, for damage code group HOWMALF, below is the damage code and its description: 001 Fails Tune/Align/Operate 002 Excessive Vibration/Noise 003 Excessive Heat/Arching)	Char	4
Damage Code Description (FMEA Item level) *(Not applicable for EC notification)*	The description of the Damage Code	Char	40
Object Part Code Group (FMEA Item level) *(Not applicable for EC notification)*	Identifies group identifier of the Object Part. A means of grouping Object Part codes. **Values: *Object Part Code Group*** (Example, Object Part Code Group = MSG04	Char	8

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Name	Description	Type	Length
	Object Part Code Group description = Main Propulsion Object Part Code = SE01 Object Part Code description = Main Batteries)		
Object Part Code Group Description (FMEA Item level) *(Not applicable for EC notification)*	The description of the Code Group	Char	40
Object Part Code (FMEA Item level) *(Not applicable for EC notification)*	The Object Part Code permits a generic categorization of the EMR or FLOC in question. **Values: *Object Code*** (Example, for object part code group MSG04, object part codes: SE01 Main Batteries SE02 Main DC System SE08 Main Motor)	Char	4
Object Part Code Description (FMEA Item level) *(Not applicable for EC notification)*	The description of the Object Part Code.	Char	40
Cause Code Item Number (FMEA Item level) *(Not applicable for EC notification)*	Identifies the specific line item of the cause code	Char	4
Cause Code Group (FMEA Item level) *(Not applicable for EC notification)*	Identifies group number of the Cause. A means of grouping Cause codes. **Values: *Cause Code Group*** (Example, Cause Code Group = EM0010 Cause Code Group description = Boilers Cause Code Group = 5185 Cause Code Group description = Corrosion)	Char	8
Cause Code Group Description	The description of the Cause Code Group	Char	40

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Name	Description	Type	Length
(FMEA Item level) *(Not applicable for EC notification)*			
Cause Code (FMEA Item level) *(Not applicable for EC notification)*	Identifies a specific Cause within the Cause Code group. **Values: *Cause Code*** (Example, for EM0010 Cause Code Group cause codes: 5100 – Abnormal Operation 5105 – Abuse 5185 – Corrosion 5275 – Excessive Load)	Char	4
Cause Code Description (FMEA Item level) *(Not applicable for EC notification)*	The description of the Cause Code.	Char	40
Activity Code Item Number *(Not applicable for EC notification)*	Identifies the specific line item of the Activity Code	Char	4
Activity Code Group (FMEA Item level or Notification header level) *(Not applicable for EC notification)*	Identifies group number of the Activity. A means of grouping Activity Codes. **Values: *Activity Code Group*** (Example, Activity Code Group = CMACTION Activity Code Group description = Corrective Maintenance Action Activity Code = 001 Activity Code Description = Adjusted/ Aligned)	Char	8
Activity Code Group Description (FMEA Item level or Notification header level) *(Not applicable for EC notification)*	The description of the Activity Code Group	Char	40
Activity Code	Identifies a specific Activity within the group.	Char	4

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Name	Description	Type	Length
(FMEA Item level or Notification header level) *(Not applicable for EC notification)*	**Values: *Activity Code*** (Example, for Activity Code Group CMACTION, activity codes: 001 Adjusted/Aligned 002 Parts Repaired 003 Cleaned/Lubricated 004 Parts Replaced)		
Activity Code Description (FMEA Item level or Notification header level) *(Not applicable for EC notification)*	The description of the Activity Code	Char	40
Work Order Number *(Not applicable for EC notification)*	A unique identifier of a work order in CMMS	Char	12
FLOC description	Description of the External FLOC Identifier	Char	40
Breakdown Indicator *(Not applicable for EC notification)*	An indicator, when set, to identify that the object of the notification is in a breakdown state (i.e., it is not even partially usable)	Char	1
Revision *(Not applicable for EC notification)*	A revision is used to group together multiple, discrete maintenance objects (such as notifications or work orders) using a single identifier	Char	8
Description of Revision *(Not applicable for EC notification)*	A description of the revision	Char	40
Frame ID *(Not applicable for EC notification)*	A reference point annotated on ship drawings used to denote major watertight sections within a ship upon a given deck. This field can be used to denote work that cannot be pinned down to a specific compartment.	Char	20
Compartment *(Not applicable for EC notification)*	An Identification Code used in reference drawings to identify the relative position of major and minor compartments within a ship. **Values: *Compartment***	Char	5

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Name	Description	Type	Length
	(Example, 01DA = bridge 01DB0 = Chart room 01DC0 = Fire control equipment)		
Compartment Description *(Not applicable for EC notification)*	A description of the Compartment (Example, 'bridge')	Char	80
Risk Assessment *(Not applicable for EC notification)*	An identifier denoting an assessment related to risk	Char	14
ERN *(Not applicable for EC notification)*	Equipment Registration Number	Char	10
ERN Location Code *(Not applicable for EC notification)*	A code related to the location of the ERN	Char	3
End of Malfunction Date End of Malfunction Time *(Not applicable for EC notification)*	Date and time that records when the malfunction ended	Datetime	
EC Number	Engineering Change Number (Numeric with leading zeroes)	Integer	8
EC Category Code	A code for the type of engineering change	Char	1
EC Category Code Description	A description of the EC category code	Char	60
EC Classification Code	A code for classifying engineering change	Char	1
EC Classification Code Description	A description of the EC Classification Code	Char	60
EC Type Code	A code that identifies the type of engineering change	Char	1
EC Type Code Description	A description of the EC Type Code	Char	60

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Name	Description	Type	Length
Tech Inspection Date *(Not applicable for EC notification)*	The date that the technical inspection was performed (time portion will contain zeroes)	Datetime	
Task Code Item Number	Identifies the specific line item of the Task Code (Numeric with leading zeroes)	Integer	4
Task Code Group	Identifies the group of the Task. A means of grouping Task Codes. **Values: *Task Code Group*** (Example, Task Code Group = EC-PART1 Task Code Group Description = Engineering Change - Part 1 Task Code = F001 Task Code Description = Statement of deficiency)	Char	8
Task Code Group Description	The description of the Task Code Group	Char	40
Task Code	Identifies a specific Task within the group **Values: *Task Code*** (Example, for Task Code Group EC-PART1, task codes: F001 = Statement of deficiency F002 = Supporting Documentation F003 = Possible solutions considered	Char	4
Task Code Description	The description of the Task Code	Char	40
Task Text	A description of the task	Char	40
Planned Start for task	The date and time that the task is planned to be executed	Datetime	
Planned Finish for task	The date and time that the task is planned to be finished	Datetime	
Task completed on date	The actual date and time that the task was completed	Datetime	
Task responsibility Code	The type of entity or organization responsible for the task (Example, VN = Vendor)	Char	2

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Name	Description	Type	Length
Task responsibility Description	A description of the Task responsibility Code (Example, vendor)	Char	20

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4 Issues and Exceptions

None identified at this time.

5 Business Process Flows

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

6 Definitions, Acronyms, Abbreviations

Term	Description
BUC	Business Use Case
CAGE	Commercial And Government Entity
CMMS	Canada Maintenance Management System
CMS	Configuration Management System
DND	Department of National Defence
EDE	Electronic Data Exchange
EIE	Electronic Information Exchange
EMR	Equipment Master Record
ISS	In-Service Support
MCP	Major Capital Project
MER	Master Equipment Record
MMR	Material Master Record
MPN	Manufacturer Part Number
PBC	Performance Based Contracting

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7 Document Control

7.1 Document History

Revision No	Description	Date
1.0	Ready for Navy RFP	16 September 2015

The information being provided is to illustrate the model that exists for business processes and information exchange within the Performance Based Contracting (PBC) solution for the Department of National Defence. The information is provided to facilitate an understanding of the business architecture and the solution architecture that exist for the PBC program. The content is not intended to reflect the end state specifications for all of the PBC EIE related services.