



Electronic Information Environment (EIE) Project

Business Use Case (BUC) BUC 7.1 Navy - Exchange Engineering Change Notification Data

EIE Project

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1 EIE Business Use Case (BUC¹) Overview

1.1 Introduction

Performance Based Contracting (PBC) is a set of guidelines to Canada Major Capital Projects (MCPs) on how to model 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). 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 Engineering Change 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/>.



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 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 |

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2 BUC 7.1 Navy - Exchange Engineering Change Notification Data

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

2.1 Overview

| | |
|-----------------------------|--|
| Identifier | BUC 7.1 |
| Name | Navy - Exchange Engineering Change Notification Data |
| Business goal | Send engineering change notification dataset to the ISS Contractor as necessary to allow the ISS Contractor to fulfill its obligations under PBC. |
| Stakeholders | Canada and ISS Contractor(s) |
| Workflow/interaction | Exchange of engineering change notification dataset from Canada to the ISS Contractor as defined at multiple points in 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 <ul style="list-style-type: none"> • Engineering Change Options Analysis • Engineering Change Package Development • Engineering Change Implementation • Fleet Maintenance Facility (FMF) Taskings |
| Period of Time | The full lifecycle of the subject platform. |
| Description | The configuration control process receives and processes requests for engineering changes from Canada and the ISS Contractor's technical or operational authorities. In order to systematically track the engineering change request, an engineering change notification is created in the CMMS. In accordance with the ISS contract, all EC notifications associated with the Platform will be transferred to the ISS Contractor in order to facilitate contractually agreed obligations. |

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This activity may communicate requests for documentation of engineering changes to the ISS Contractor. It subsequently provides for tracking the review and approval/disapproval of proposed changes through the EC notification, and for the necessary authorization and direction for change implementation by contractors and affected Canada activities. It provides input to status accounting about change identifiers, about the progress of the change documentation through the steps in the configuration control decision/authorization process, and about the implementation status of authorized changes.

On a pre-determined, periodic basis, through the entire platform lifecycle, Canada will transfer to the specific ISS Contractor, engineering change notification datasets, which are permitted by the business to be shared with the specific ISS Contractor.

2.2 Sub Processes and Activities Supported

Refer to the 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 system shall ensure engineering change notification datasets for a platform are sent only to the ISS Contractor system which is properly authenticated and authorized to see engineering change notification datasets for that Navy Ship Class.
2. The system may impose a latency (or delay) prior to releasing engineering change notification datasets to the ISS Contractor. A delay may be imposed for operational or security reasons.
3. CMMS, as the system of record for actual configuration data, will determine when data can be released to the ISS Contractor and will initiate transfer to the ISS Contractor. The ISS Contractor remains the system of record for allowed configuration.
4. Any engineering change notification which is managed in a De-Centralized instance of CMMS aboard ship will not be released to the ISS Contractor until the De-Centralized CMMS instance is synchronized with the central CMMS. There may be delays in synchronization, resulting in delays in sending engineering change notification data to the ISS Contractor.

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2.4 Actors

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

| Role Name | Role Description / Responsibilities |
|--------------------------|---|
| Canada Authorized Person | <ul style="list-style-type: none"> Creates/closes engineering change notification Creates/closes maintenance notification for Options Analysis Creates/closes maintenance notification for Develop Change Package Creates/closes maintenance notification for engineering change implementation |
| CMMS | <ul style="list-style-type: none"> Supports creation and processing Notification data. |
| EDE | <ul style="list-style-type: none"> Transports and transforms the Notification data. |
| ISS Contractor | <ul style="list-style-type: none"> Provides a system that will have the ability to: <ul style="list-style-type: none"> - Accept and process notifications data sent from Canada, and - Acceptance of the acknowledgement of data from Canada |

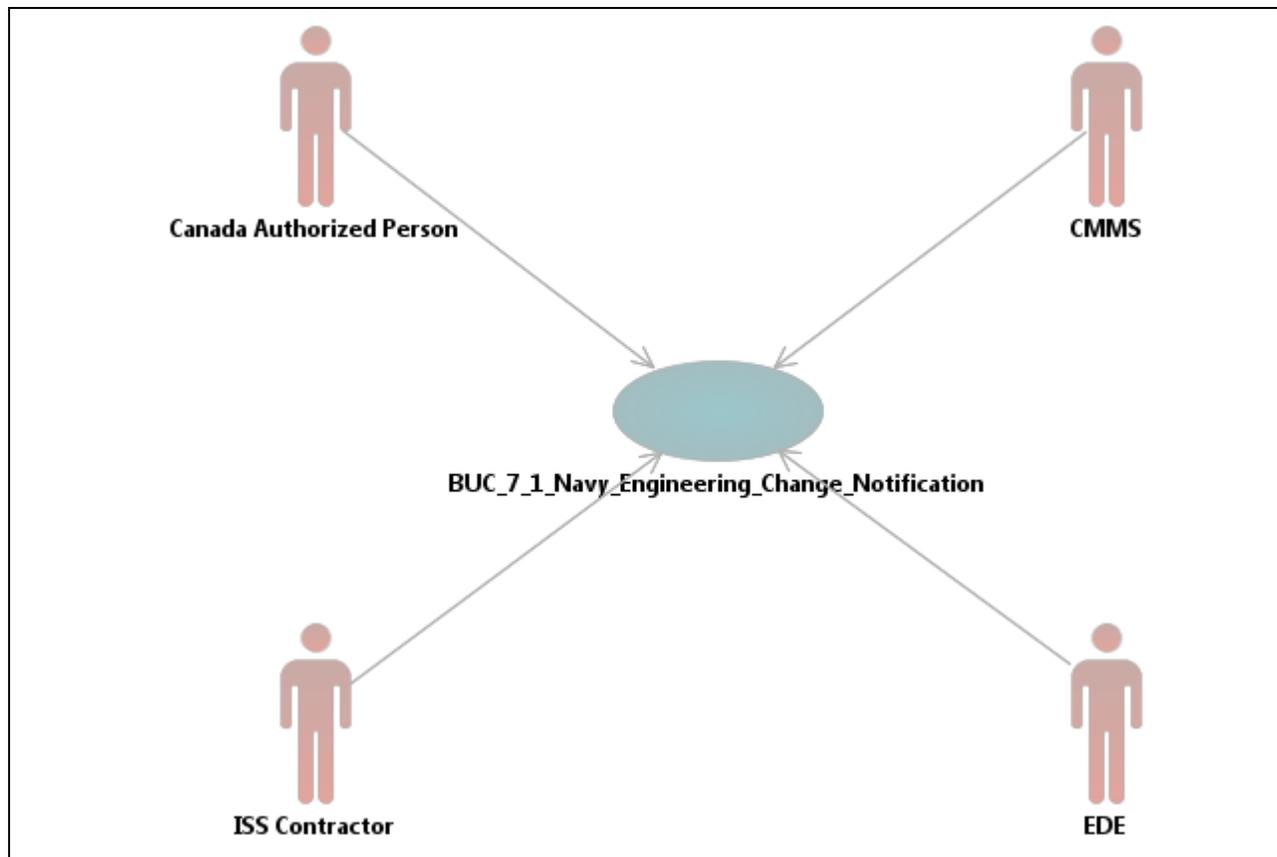


Figure 2-1 Navy - Exchange Engineering Change Notification Data

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2.5 Common Pre-Conditions

These apply to every scenario unless explicitly stated otherwise.

1. As per PBC, the ISS Contractor requires that the EC notification datasets be sent to the ISS Contractor Consumer System;
2. Canada and the ISS Contractor have agreed upon EC notification dataset format (see [Functional Data Definition](#));
3. Canada and the ISS Contractor have agreed upon EC notification data exchange mechanism.

2.6 Common Post-Condition(s)

The following applies to every scenario unless explicitly stated otherwise.

1. Notification dataset has been received by the ISS Contractor and an acknowledgement has been received by Canada.

2.7 Common BUC Steps

Each scenario defined below includes the following common steps:

| Common Steps | Step Description | Actor |
|---|---|----------------|
| Determine which EC Notification datasets are to be sent to the ISS Contractor | CMMS determines which EC Notification data is applicable for a given ISS Contractor and business event and applies latency conditions to determine what is available for release to the ISS Contractor. | CMMS |
| Prepare and send EC Notification data | CMMS creates and sends notification records as per input parameters provided. | CMMS |
| Convert EC Notification data to common format | EDE converts data to XML-based format that has been adopted by Canada and the ISS Contractor. | EDE |
| Send EC Notification data to the ISS Contractor | EDE sends EC Notification datasets to the ISS Contractor, in accordance with transmission definition as per Canada EDE defined standards. | EDE |
| Acknowledge receipt of EC Notification data | ISS Contractor System acknowledges receipt of EC Notification records. | ISS Contractor |
| Forward acknowledgement to CMMS | EDE forwards the acknowledgement receipt to CMMS. | EDE |
| Mark EC Notification records as sent | CMMS updates its EC Notification records as being sent. | CMMS |

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| Common Steps | Step Description | Actor |
|---|---|----------------|
| Send data integrity validation acknowledgement | ISS Contractor System conducts data integrity validation as per established business rules as agreed between Canada and the ISS Contractor. The ISS Contractor system sends acknowledgement to Canada EDE. Note: The ISS Contractor will send error information if the data fails integrity validation | ISS Contractor |
| Receive data integrity validation acknowledgement from the ISS Contractor | EDE receives the data integrity validation acknowledgement and dispatches the information to CMMS. | EDE |
| Mark notification records as being business acknowledged | CMMS updates its notification records as being business acknowledged by the ISS Contractor System. | CMMS |

2.8 Scenarios²

In the following scenarios the pre-condition and trigger serve to uniquely identify the EC 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, and reconciliation of the notification. 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 to the ISS Contractor.

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2.8.1 7.1.1 Notification – Full [N1.4.3.1.1]

| | |
|-------------------------|---|
| Scenario Name | 7.1.1 Notification – Full [N1.4.3.1.1] |
| Business Process | <p>This scenario occurs in the following business processes:</p> <ul style="list-style-type: none"> • Engineering Change Options Analysis • Engineering Change Package Development • Engineering Change Implementation • FMF Taskings |
| Business Context | <p>The creation and closure of a notification as described in the following configuration management business processes will trigger sending the Full record of data to the ISS Contractor.</p> <p>Engineering Change Options Analysis</p> <ul style="list-style-type: none"> • The ISS Contractor will send to Canada the EC request identifying the information required to implement changes in the maintenance and/or supply elements. The exchange of this information will occur outside the EDE. An authorized user will create a corresponding EC notification (type NC) in the CMMS, and related transactions will be sent to the ISS Contractor via the EDE. • Canada will review the EC proposal and inform the ISS Contractor via the EDE whether the EC is approved or cancelled. • If Canada is to perform the EC options analysis, an authorized user will create a separate maintenance notification (N2) in the CMMS for the EC options analysis and the associated transactions will be sent to the ISS Contractor via the EDE. • Upon completion and approval of the EC options analysis package the work order for options analysis will be set to Technically Complete, then the work order and corresponding notification will be closed and related transactions sent to the ISS Contractor via the EDE. <p>Engineering Change Package Development</p> <ul style="list-style-type: none"> • If Canada is to perform the development of an EC package, an authorized user will create a separate maintenance notification (N2) in the CMMS for development of the EC package and related transactions will be sent to the ISS Contractor via the EDE. • Upon completion and approval of the EC package, the WO for the development of the EC package will be set to Technically Complete. The WO and corresponding notification will then be closed and related transactions sent to the ISS Contractor via the EDE. <p>Engineering Change Implementation</p> |

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| | | | |
|-------------------------|--|--|--------------------------|
| Precondition(s) | <ul style="list-style-type: none"> If Canada is to perform the maintenance for the EC implementation, an authorized user will create the maintenance notification (N2) for the EC implementation and related transactions will be sent to the ISS Contractor via the EDE. Upon completion of the EC implementation on all applicable platforms, Canada will conduct the validation/verification, produce the Certificate of Compliance (CoC) and close the EC notification. The related transaction will be sent to the ISS Contractor via the EDE and the CoC will be forwarded to the ISS Contractor via the CE. If the ISS Contractor is to perform the maintenance for the EC implementation, Canada authorized user will create the maintenance notification (N2) for the EC implementation and related transactions will be sent to the ISS Contractor via the EDE. Upon completion of the EC implementation the ISS Contractor will conduct the configuration validation/ verification in its own CMS and send the CoC to Canada via the CE. Canada will close the EC notification. <p>FMF Taskings</p> <ul style="list-style-type: none"> If the FMF accepts the task of developing the EC package, the authorized FMF personnel will update the user status of the notification to 'Accepted by Repair Facility', which will also send a snapshot of the notification to the ISS Contractor via the EDE. | | |
| Trigger event | Actor creates/closes notification in CMMS. | | |
| Steps | Step Name | Step Description | Actor |
| | Create/close EC Notification in CMMS | The Actor chooses to create a new or close an EC Notification. | Canada Authorized Person |
| | Populate EC Notification in CMMS | The Actor navigates through the EC Notification screens and enters EC Notification data. | Canada Authorized Person |
| | Capture notification Full record in CMMS. | The system will create a notification full record, containing all available notification data available as per the data map. | CMMS |
| | Continue with Common BUC Steps | | |
| Postcondition(s) | See Common Post-Conditions . | | |
| Notes | | | |

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2.8.2 7.1.2 Update Notification User Status [N1.4.3.1.4]

| | |
|-------------------------|---|
| Scenario Name | 7.1.2 Update Notification User Status [N1.4.3.1.4] |
| Business Process | <p>This scenario occurs in the following business processes:</p> <ul style="list-style-type: none"> • Engineering Change Options Analysis • Engineering Change Package Development • Engineering Change Implementation • FMF Taskings |
| Business Context | <p>Engineering Change Options Analysis</p> <ul style="list-style-type: none"> • Canada will review the EC proposal and inform the ISS Contractor via the EDE whether the EC is approved or cancelled. • The organization(s) performing the options analysis will be reflected in the EC notification within CMMS with the information being sent to the ISS Contractor. In either case the user status of the EC notification will be updated to reflect the organization performing the EC options analysis, and an updated user status will be sent to the ISS Contractor via the EDE. • If rework by Canada is required, the package will be returned to the originator, the user status of the EC notification will be updated to 'Rework', and the related transaction will be sent to the ISS Contractor via EDE. Based on the CPM decision, the package may be completely cancelled (Reference: Navy - Perform Maintenance - Cross Functional: Cancel), or approved for developing the change package with the user status change set to 'Develop change package'. • If rework by the ISS Contractor is required, the package will be returned to the ISS Contractor via the CE, the user status of the EC notification will be updated to 'Rework', and the related transaction will be sent to the ISS Contractor via the EDE. Based on the CPM decision, the package may be completely cancelled (Reference: Cancel), or approved for developing the change package with the user status set to 'Develop change package'. <p>Engineering Change Package Development</p> <ul style="list-style-type: none"> • EC package development may be conducted by Canada or the ISS Contractor. In either case, the user status of the EC notification will be updated to reflect the organization performing the EC package development, and the updated user status will be sent to the ISS Contractor via the EDE. • If rework by Canada is required, the package will be returned to the originator and the user status of the EC notification will be updated to |

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| | | | |
|-------------------------|---|--|--------------------------|
| Precondition(s) | <p>'Rework', and related transactions sent to the ISS Contractor via the EDE. Based on the CPM decision, the package may be completely cancelled (Reference: Navy - Perform Maintenance - Cross Functional: Cancel), or approved for implementation with the user status set to 'Ready for Implementation'.</p> <ul style="list-style-type: none"> If rework by the ISS Contractor is required, the package will be returned to the ISS Contractor via the CE, the user status of the EC notification will be updated to 'Rework', and related transactions sent to the ISS Contractor via the EDE. Based on the CPM decision, the package may be completely cancelled (Reference: Cancel), or approved for implementation with the user status set to 'Ready for Implementation'. <p>Engineering Change Implementation</p> <ul style="list-style-type: none"> An EC implementation may be conducted by Canada or the ISS Contractor. In either case the user status of the EC notification will be updated to reflect the organization performing the EC implementation, and updated user status will be sent to the ISS Contractor via EDE. <p>FMF Taskings</p> <ul style="list-style-type: none"> If the FMF accepts the task of developing the EC package, the authorized FMF personnel will update the user status of the notification to 'Accepted by Repair Facility', which will also send a snapshot of the notification to the ISS Contractor via the EDE. | | |
| Trigger event | Canada Authorized Person changes a User Status within an existing notification. | | |
| Steps | Step Name | Step Description | Actor |
| | Open EC Notification in CMMS | The Actor chooses to open an existing EC Notification. | Canada Authorized Person |
| | Populate/change EC Notification data in CMMS | The Actor navigates through the EC Notification screens and enters/changes the notification user status. | Canada Authorized Person |
| | Create notification datasets | The system will create a notification record, containing updated user status records. | CMMS |
| | Continue with Common BUC Steps | | |
| Postcondition(s) | See Common Post-Conditions . | | |
| Notes | | | |

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2.8.3 7.1.3 Update Notification System Status [N1.4.3.1.2]

| | |
|-------------------------|--|
| Scenario Name | 7.1.3 Update Notification System Status [N1.4.3.1.2] |
| Business Process | <p>This scenario occurs in the following business processes:</p> <ul style="list-style-type: none"> • Engineering Change Options Analysis • Engineering Change Package Development • Engineering Change Implementation • FMF Taskings |
| Business Context | <p>The creation and closure of an EC Notification as described in the following configuration management business processes will trigger sending the System Status record of data to the ISS Contractor.</p> <p>Engineering Change Options Analysis</p> <ul style="list-style-type: none"> • The ISS Contractor will send to Canada the EC request identifying the information required to implement changes in the maintenance and/or supply elements. The exchange of this information will occur outside the EDE. An authorized user will create a corresponding EC notification (type NC) in the CMMS, and related transactions will be sent to the ISS Contractor via the EDE. • Canada will review the EC proposal and inform the ISS Contractor via the EDE whether the EC is approved or cancelled. • If Canada is to perform the EC options analysis, an authorized user will create a separate maintenance notification (N2) in the CMMS for the EC options analysis and the associated transactions will be sent to the ISS Contractor via the EDE. • Upon completion and approval of the EC options analysis package the work order for options analysis will be set to Technically Complete, then the work order and corresponding notification will be closed and related transactions sent to the ISS Contractor via the EDE. <p>Engineering Change Package Development</p> <ul style="list-style-type: none"> • If Canada is to perform the development of an EC package, an authorized user will create separate maintenance notification (N2) in the CMMS for development of the EC package and related transactions will be sent to the ISS Contractor via the EDE. • Upon completion and approval of the EC package, the WO for the development of the EC package will be set to Technically Complete. The WO and corresponding notification will then be closed and related |

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| | <p>transactions sent to the ISS Contractor via the EDE.</p> <p>Engineering Change Implementation</p> <ul style="list-style-type: none"> • If Canada is to perform the maintenance for the EC implementation, an authorized user will create the maintenance notification (N2) for the EC implementation and related transactions will be sent to the ISS Contractor via the EDE. • Upon completion of the EC implementation on all applicable platforms, Canada will conduct the validation/verification, produce the Certificate of Compliance (CoC) and close the EC notification. The related transaction will be sent to the ISS Contractor via the EDE and the CoC will be forwarded to the ISS Contractor via the CE. • If the ISS Contractor is to perform the maintenance for the EC implementation, Canada authorized user will create the maintenance notification (N2) for the EC implementation and related transactions will be sent to the ISS Contractor via the EDE. • Upon completion of the EC implementation the ISS Contractor will conduct the configuration validation/verification in its own CMS and send the CoC to Canada via the CE. Canada will close the EC notification. <p>FMF Taskings</p> <ul style="list-style-type: none"> • The FMF will create a Work Order for the change package and release the notification and WO. All related transactions will be sent to the ISS Contractor via the EDE. | | | | | | | | | | | | | | | |
|--|--|--------------------------|------------------|-------|------------------------------|--|--------------------------|--|--|--------------------------|------------------------------|---|------|--|--|--|
| Precondition(s) | See Common Pre-Conditions . | | | | | | | | | | | | | | | |
| Trigger event | Canada Authorized Person changes a System Status within an existing notification. | | | | | | | | | | | | | | | |
| Steps | <table border="1"> <thead> <tr> <th>Step Name</th> <th>Step Description</th> <th>Actor</th> </tr> </thead> <tbody> <tr> <td>Open EC Notification in CMMS</td> <td>The Actor chooses to open an existing EC notification.</td> <td>Canada Authorized Person</td> </tr> <tr> <td>Populate/change EC Notification data in CMMS</td> <td>The Actor navigates through the EC Notification screens and enters/changes the notification system status.</td> <td>Canada Authorized Person</td> </tr> <tr> <td>Create notification datasets</td> <td>The system will create a notification record, containing updated system status records.</td> <td>CMMS</td> </tr> <tr> <td colspan="2">Continue with Common BUC Steps</td> <td></td> </tr> </tbody> </table> | Step Name | Step Description | Actor | Open EC Notification in CMMS | The Actor chooses to open an existing EC notification. | Canada Authorized Person | Populate/change EC Notification data in CMMS | The Actor navigates through the EC Notification screens and enters/changes the notification system status. | Canada Authorized Person | Create notification datasets | The system will create a notification record, containing updated system status records. | CMMS | Continue with Common BUC Steps | | |
| Step Name | Step Description | Actor | | | | | | | | | | | | | | |
| Open EC Notification in CMMS | The Actor chooses to open an existing EC notification. | Canada Authorized Person | | | | | | | | | | | | | | |
| Populate/change EC Notification data in CMMS | The Actor navigates through the EC Notification screens and enters/changes the notification system status. | Canada Authorized Person | | | | | | | | | | | | | | |
| Create notification datasets | The system will create a notification record, containing updated system status records. | CMMS | | | | | | | | | | | | | | |
| Continue with Common BUC Steps | | | | | | | | | | | | | | | | |

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| | |
|-------------------------|--|
| Postcondition(s) | See Common Post-Conditions . |
| Notes | |

2.9 Information Requirements

Details on the data elements of an Engineering Change notification are provided in Section 3.

2.10 Special Requirements

None identified.

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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 a maintenance notification in the CMMS. | Char | 12 |
| Record Timestamp | The timestamp a maintenance notification snapshot is taken in the CMMS | Datetime | |
| Notification Type | <p>A notification type dictates which fields are available within a notification including the list of available user status values.</p> <p>Values: <i>Notification Type</i> (Example, N1 Maintenance N2 MEPM (Implement Engineering Changes) NC: EC Part 1 (Pre-implementation Engineering Changes)</p> | Char | 2 |
| Notification Activity Type | <p>Further differentiate the type of notification by defining the main activity of the notification/ work order. This field is present where a notification type is used to perform more than one type of work.</p> <p>For example, the NR notification can be used to record work on components that are not installed on the Platform but can also be used to record work required to prepare a Platform component for shipment to the contractor.</p> <p>Note: For a given Notification Type the values of the Notification Type Activity will be identical to the values of the PM Activity Type in the corresponding Work Order. However, the value in the Notification Type is not mandatory as it is in the</p> | Char | 3 |

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| Name | Description | Type | Length |
|--|--|------|--------|
| | Work Order. | | |
| Notification Activity Type Description | Text description of the Notification Activity Type | Char | 30 |
| Problem Short Description | Short description of the problem reported into notification. | Char | 40 |
| Download Identifier | 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 |
| FLOC description | Description of the External FLOC Identifier | Char | 40 |
| CAGE | Commercial And Government Entity (CAGE) code of the manufacturer associated to the equipment | Char | 5 |
| 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 |
| Frame ID | 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 | An Identification Code used in reference drawings to identify the relative position of major and minor compartments within a ship. Values: <i>Compartment</i> (Example, 01DA = bridge 01DB0 = Chart room 01DC0 = Fire control equipment) | Char | 5 |
| Compartment Description | A description of the Compartment (Example, 'bridge') | Char | 80 |

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| Name | Description | Type | Length |
|----------------------------------|---|------|--------|
| ERN | Equipment Registration Number | Char | 8 |
| ERN Location Code | A code related to the location of the ERN | Char | 3 |
| 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 |
| Suggested Start Date | Suggested start date of the notification process. When created by a user, this is usually the creation date of the notification unless modified by user. When created by Deadline Monitoring, this is a system-calculated future date. | Date | |
| Suggested End Date | Suggested end date of the notification process. Usually entered by user for desired due date of the notification completion. When created by Deadline Monitoring, this is a system-calculated future date. | Date | |
| Priority | A code defining the priority given to the notification for processing. Values: Priority Code (Example, 01 - 99 for N1, N9) | Char | 1 |
| Priority Description | Priority text given to the request for processing. | Char | 20 |
| Mission Effect Code Group | Identifies group identifier of the notification. A means of grouping or classifying notifications. For an ND notification it defines the type of deviation or waiver. Values: Coding Code Group (Example, Notification type = ND Coding Code Group = DEV Description = Deviation) | Char | 8 |
| Mission Effect Group Description | The description of the Code Group | Char | 40 |

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| Name | Description | Type | Length |
|--|---|------|--------|
| Mission Effect Code | A specific code associated with the code group. The list of allowed codes is determined by the selected value of the Mission Effect Group. Values: Coding Code (Example for Coding Code Group DEV coding codes: Coding Code = 003, Technical Coding Code = 004, General) | Char | 4 |
| Mission Effect Code Description | The description of the Mission Effect Code. | Char | 40 |
| Problem Long Description | Long text of the notification. Captures text, entered by a user, which is beyond 40 characters long. Note: There will be no truncation of user entered text. | Char | 2 GB |
| MER Identifier | Platform unique identifier as defined by Canada. For Navy platform, this is the Ship identifier. | Char | 14 |
| From Notification | In the case of an arising notification created from original notification, the original notification number (ID) is populated for reference purpose. | Char | 12 |
| To Notification | In the case of a notification from which an arising notification was created, the arising notification number (ID) is populated for reference purpose. | Char | 12 |
| External Reference Number | Unique identifier used to report: <ul style="list-style-type: none"> • 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 | The ISS Contractor defined identifier of a maintenance task list. | Char | 40 |
| Technical Status (<i>Not applicable for the Navy</i>) | The equipment status that may be reflected in the Platform as a whole, describes the availability and usability of a piece of equipment. The notification technical status describes the equipment's or FLOC's status that is a result of a snag reported within that notification for corrective maintenance | Char | 4 |

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| Name | Description | Type | Length |
|--|--|-----------------|-----------|
| | <p>or preventive maintenance activity.</p> <p>The notification technical status may affect the Master Equipment Record (MER) status. (MER record is the CMMS representation of the Platform as a whole). It is used to identify the Platform serviceability based on notification request. Multiple maintenance notifications can be opened for the same MER. The MER Technical Status is determined based on the criticality of all associated open notifications.</p> <p>Values: <i>Technical Status</i></p> <p>(Example, SERV Serviceable OPIM Ops Restriction Imposed UNSV Unserviceable QUAR Quarantined IMPD Impounded)</p> | | |
| <p>Technical Status Description <i>(Not applicable for the Navy)</i></p> | <p>The description of the technical status</p> | <p>Char</p> | <p>30</p> |
| <p>Technical Status Start Time <i>(Not applicable for the Navy)</i></p> | <p>Date and time the notification technical status is set in CMMS.</p> | <p>Datetime</p> | |
| <p>User Status Code</p> | <p>In some cases more than one status can be selected per notification. User Status is a field used to validate and approve content of the notification or to depict a business condition such as deferral.</p> <p>Values: <i>User Status Code</i></p> <p>(Example, FILV First Level System DKDW Docking Dependent Work)</p> | <p>Char</p> | <p>4</p> |
| <p>User Status Start Date</p> | <p>Date and time the notification user status is set in CMMS.</p> | <p>Datetime</p> | |
| <p>User Status Stop Date</p> | <p>Date and time the notification user status is un-set in CMMS.</p> | <p>Datetime</p> | |

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| Name | Description | Type | Length |
|----------------------------------|--|----------|--------|
| User Status Description | The description of the user status | Char | 30 |
| System Status Code | 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 |
| System Status Start Date | Date / time stamp the status was set. | Datetime | |
| System Status Description | Description of each individual status. | Char | 30 |
| FMEA Item Number | This uniquely identifies a Notification item. May have associated Damage Code, Object Part Code, Cause Codes, Activity Codes and Task Codes. | Char | 4 |
| Component CAGE (FMEA Item level) | 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 Damage codes or Object Part Codes recorded against them. The combination of the Component MPN and Component CAGE fields WITHOUT a damage code can be used to identify consumables used in performance of the maintenance activity. | Char | 5 |
| Component MPN (FMEA Item level) | MPN of the manufacturer associated to the Component. The combination of the Component MPN and Component CAGE fields identifies non-serialized parts that have damage codes recorded against them. The combination of the Component MPN and Component CAGE fields WITHOUT a damage code can be used to identify 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 | The quantity of assemblies against which a damage | Integer | 10 |

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| Name | Description | Type | Length |
|--|--|------|--------|
| Quantity (FMEA Item level) | is recorded for a non-serialized part. A combination of the Component MPN and Component CAGE fields identifies a non-serialized part that has a damage code recorded against this part. | | |
| Damage Code Group (FMEA Item level) | Identifies group identifier of the Damage. A means of grouping damage codes. CMMS notification catalogue entry for maintenance history. Values: <i>Damage Code Group</i> (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) | The description of the Damage Code Group | Char | 40 |
| Damage Code (FMEA Item level) | Unique identifier of the damage code within the Damage Code Group. Values: <i>Damage Code</i> (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) | The description of the Damage Code | Char | 40 |
| Object Part Code Group (FMEA Item level) | Identifies group identifier of the Object Part. A means of grouping Object Part codes. Values: <i>Object Part Code Group</i> (Example, Object Part Code Group = MSG04 Object Part Code Group description = Main Propulsion | Char | 8 |

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| Name | Description | Type | Length |
|--|---|------|--------|
| | Object Part Code = SE01 Object Part Code description = Main Batteries) | | |
| Object Part Code Group Description (FMEA Item level) | The description of the Code Group | Char | 40 |
| Object Part Code (FMEA Item level) | 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) | The description of the Object Part Code. | Char | 40 |
| Cause Code Item Number (FMEA Item level) | Identifies the specific line item of the cause code | Char | 4 |
| Cause Code Group (FMEA Item level) | 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 (FMEA Item level) | The description of the Cause Code Group | Char | 40 |
| Cause Code (FMEA Item level) | Identifies a specific Cause within the Cause Code group. Values: Cause Code (Example, for EM0010 Cause Code Group cause codes: 5100 – Abnormal Operation | Char | 4 |

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| Name | Description | Type | Length |
|--|---|------|--------|
| | 5105 – Abuse 5185 – Corrosion 5275 – Excessive Load) | | |
| Cause Code Description (FMEA Item level) | The description of the Cause Code. | Char | 40 |
| Activity Code Item Number | Identifies the specific line item of the Activity Code | Char | 4 |
| Activity Code Group (FMEA Item level or Notification header level) | 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) | The description of the Activity Code Group | Char | 40 |
| Activity Code (FMEA Item level or Notification header level) | Identifies a specific Activity within the group. Values: Activity Code (Example, for Activity Code Group CMACTION, activity codes: 001 Adjusted/Aligned 002 Parts Repaired 003 Cleaned/Lubricated 004 Parts Replaced) | Char | 4 |
| Activity Code Description (FMEA Item level or Notification header level) | The description of the Activity Code | Char | 40 |
| Attachment File Name | The name of a file that is attached to a Notification. A filename consists of any combination of letters | Char | 100 |

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| Name | Description | Type | Length |
|--------------------------|--|--------|--------|
| | (upper or lower-case), number, or “_”, “-”, and “.” characters. Spaces are not allowed. The file extension maps to any of the standard mime types. File name extension to the specific mime type association is not guaranteed by the provider due to operating systems differences in associating extensions to mime types. The overall length of the file name including extension will not exceed 100 Characters. | | |
| Attachment Description | Short description of the attached document | Char | 40 |
| Mime Type | The mime type of the attached file. | Char | 128 |
| Attachment | The attached document file | Binary | |
| Business Correlation ID | Canada CMMS identifier used with Business Sequence number to uniquely identify a business object sent to ISS Contractor | Char | 40 |
| Business Sequence Number | Canada CMMS identifier used with Business Correlation ID to uniquely identify a business object sent to ISS Contractor | Char | 2 |
| Work Order Number | A unique identifier of a work order in CMMS. | Char | 12 |
| Breakdown Indicator | 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 | 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 | A description of the revision | Char | 40 |
| Risk Assessment | An identifier denoting an assessment related to risk | Char | 14 |
| How Found Code | In CMMS it most commonly defines when the problem was found. Values: <i>How Found</i> (Example, A = During Operations B = During PM routine C = Prep for Ops) | Char | 1 |
| How Found Description | A description of the How Found Code (Example, 'During Operations') | Char | 25 |

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BUC 7.1 Navy - Exchange
Engineering Change Notification Data

| Name | Description | Type | Length |
|---|--|----------|--------|
| Source System | An identifier as to where an event occurred that resulted in a web service being generated. Can be used to determine, for example, which ship created a notification. | Char | 10 |
| Start of Malfunction Date Start of Malfunction Time | Date and time that records when the malfunction was first noticed | Datetime | |
| End of Malfunction Date End of Malfunction Time | 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 |
| Tech Inspection Date | 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 (FMEA Item level or Notification header level) | Identifies the group of the Task. A means of grouping Task Codes. Values: <i>Task Code Group</i> (Example, Task Code Group = EC-PART1 Task Code Group Description = Engineering | Char | 8 |

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| Name | Description | Type | Length |
|---|---|----------|--------|
| | Change - Part 1 Task Code = F001 Task Code Description = Statement of deficiency) | | |
| Task Code Group Description (FMEA Item level or Notification header level) | The description of the Task Code Group | Char | 40 |
| Task Code (FMEA Item level or Notification header level) | Identifies a specific Task within the group Values: <i>Task Code</i> (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 (FMEA Item level or Notification header level) | 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 |
| 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 Configuration Management 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 |
| CoC | Certificate of Compliance |
| DND | Department of National Defence |
| EC | Engineering Change |
| EDE | Electronic Data Exchange |
| EIE | Electronic Information Exchange |
| EMR | Equipment Master Record |
| FMEA | Failure Mode and Effects Analysis |
| FMF | Fleet Maintenance Facility |
| ISS | In-Service Support |
| MCP | Major Capital Project |
| MER | Master Equipment Record |
| MMR | Material Master Record |
| MPN | Manufacturer Part Number |
| PBC | Performance Based Contracting |
| WO | Work Order |

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