

# NAVY ELECTRONIC INFORMATION ENVIRONMENT (EIE) GUIDELINE DOCUMENT





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## **Electronic Information Environment (EIE) Guideline Document**

### **1 Background**

To meet the needs of Navy Performance Based Contracting (PBC), there is a requirement to automate the exchange of critical information with Industry to support Acquisition and In-Service Support (ISS) processes. As a result, both Industry and DND need timely access to information from each other's information systems to fulfill their respective contractual obligations.

To meet these requirements, an Electronic Information Environment (EIE) program has been created. The EIE system essentially consists of two components; the Collaborative Environment (CE) and the Electronic Data Exchange (EDE). Component descriptions are as follows;

#### **1.1 Collaboration Environment (CE)**

The CE is an environment for individuals to access documents, reports, and information and enables Project Management Offices (PMOs), Industry, and other stakeholders to collaborate and share information. The CE will facilitate communication, content, workflow, deliverables and document management. It also ensures secure access to Industry information systems for authorized DND personnel. The CE allows DND personnel to access Contractor systems, functionality, and information.

#### **1.2 Electronic Data Exchange (EDE)**

The Electronic Data Exchange (EDE) is a system that allows real time data exchange between the Industry Enterprise Resource Planning (ERP) application and DND's ERP (DRMIS). Fundamental aspect of the EDE design is the adoption of a services-oriented architecture (SOA) that embraces open standards and protocols. The design and implementations of the EDE and affiliated future applications allows for change to occur in each part/tier of the system without affecting its other parts. This approach was adopted to allow technology insertion as new components become available, while minimizing impact on other sub-systems.

### **2 Purpose**

The purpose of this reference is to provide guidance with respect to the design documentation associated with the development and subsequent implementation of the EIE / EDE .

### **3 Documents**

The Guideline Documents associated with the reference are as follows;

- a. Navy EIE CONOPS;
- b. Navy Master Data Guidelines; and

- c. Navy EIE Electronic Data Exchange Interface Control Document Package;

### **3.1 Navy EIE CONOPS**

This document describes how the Navy will adopt a Pan Navy approach for the sharing of information with its Industry partners. It articulates business goals, objectives and processes to support both the EDE and CE component of the EIE. This document is to be used as a high level introduction to the Navy EIE however the design documentation to support development of EDE solution are outlined in para 3.2 and 3.3 below.

### **3.2 DRMIS Data Guidelines for the Royal Canadian Navy**

The purpose of this document is to describe the DRMIS Data and structures as it relates to the Navy. It also is used as a data mapping comparison between the LSAR data set and the DRMIS data set and is used extensively to support Data Initialization and Master Data updates and management.

### **3.3 Interface Control Document (ICD) Packages**

The EDE provides the infrastructure, systems, and data integration for sharing of information between DND and Contractor in support the In-Service Support Contract Framework (ISSCF) for Performance Based Accountability (PBA) of Major Capital Project (MCP). The EDE enable data and information sharing between the Contractor and DND through Integrated systems for automatic electronic sharing of data. The EDE ICD defines the interface requirements and design for the exchange of data between the Contractor and DND information systems. The EDE ICD is organized by segregating the functional documentation (i.e. Business Process and Requirements) and technical documentation (i.e. Interface Requirements). The technical documentation of the Interface Control Document (ICD) provides the details necessary for an IT developer to program that section of the EDE including:

- a. Interface Requirements;
- b. Data Mappings;
- c. Necessary Interface Acknowledgement(s) and Receipt(s);
- d. End-user Interactions;
- e. Payload Definitions; and
- f. Payload XML Schemas.

The EIE EDE Interface Control Document Packages consist of the following ICD Packages:

- Cross Domain ICD Package
- Maintenance ICD Package
- Master Data ICD Package

- Supply ICD Package ;
- Technical Service ICD Package
- TPMS ICD Package

### **3.3.1 Cross Domain ICD Package**

The Cross Domain ICD Package can best be described as the documentation required to support the physical interface between Canada and the Contractor. It also defines the security protocol to support the data exchange and consists of the following folder structure and associated documents:

**Folder : Cross Domain / Infrastructure /**

File: A-XX-01 EIE Connectivity Template

**Folder : Cross Domain /Release Notes/**

File: A-XX-02 Navy\_RFP\_CrossDomain\_Release\_Notes

**Folder : Cross Domain /**

File : A-XX-03 Partner and DND EIE Interface Configuration Management

**Folder : Cross Domain / Service Specifications /**

File : A-XX - 04 Data\_Package\_Specification-External

File : A-XX- 05 EDE-OperationalModel-Landscape

File : A-XX - 06 ErrorModel

File : A-XX - 07 Navy\_Industry\_Data\_Package\_Specification

File : A-XX - 08 Navy\_Industry\_Unit\_Of\_Work\_Specification

File : A-XX - 09 ServiceInteractionModel

File : A-XX - 10 Unit\_Of\_Work\_Specification-External

### **3.3.2 Maintenance ICD Package**

The Maintenance ICD Package consists of those folders and files required to build and implement the EDE Maintenance Interface . The list of files and folders are outlined below;

**Folder : Maintenance / Business Process Specification**

File : A-XX 0 11 Navy Maintenance Process Model - Annex L

**Folder : Maintenance / Business Use Case**

File : A-XX - 12 BUC\_4\_21\_Navy\_Maintenance\_Notification

File : A-XX - 13 BUC\_4\_22\_Navy\_Maintenance\_WorkOrder

File : A-XX - 14 BUC\_4\_23\_Navy\_Maintenance\_EMR\_Install\_Uninstall  
File : A-XX - 15 BUC\_4\_24\_Navy\_Maintenance\_Measurement\_Documents  
File : A-XX - 16 BUC\_4\_25\_Navy\_Maintenance\_Service\_Request  
File : A-XX - 17 BUC\_4\_26\_Navy\_Maintenance\_Notification\_ISSC  
File : A-XX - 18 BUC\_4\_27\_Navy\_Maintenance\_WorkOrder\_ISSC  
File : A-XX - 19 BUC\_4\_28\_Navy\_Maintenance\_EMR\_Install\_Uninstall\_ISSC  
File : A-XX - 20 BUC\_4\_29\_Navy\_Maintenance\_Measurement\_Document\_ISSC

**Folder : Maintenance / Release Notes**

File : A-XX - 21 Navy\_RFP\_Maintenance\_Release\_Notes

**Folder : Maintenance / Service Specifications**

File : A-XX - 22 Industry\_Maintenance\_Operational\_Model  
File : A-XX - 23 MaintenanceHistoryOperationalModel  
File : A-XX - 24 Navy\_Process\_EMR\_Specification-External  
File : A-XX - 25 Navy\_Process\_Industry\_Notification\_Specification-External  
File : A-XX - 26 Navy\_Process\_Industry\_Work\_Order\_Specification-External  
File : A-XX - 27 Navy\_Process\_Maintenance\_Measurement\_Records-External  
File : A-XX - 28 Navy\_Process\_Maintenance\_Notification\_Specification-External  
File : A-XX - 29 Navy\_Process\_Maintenance\_Work\_Order\_Specification-External  
File : A-XX - 30 Navy\_Service\_Request\_Service\_Specification-External

**3.3.3 Master Data ICD Package**

The Master Data ICD Package is the package that best describes how Master Data will be updated based upon Engineering Change activities and other Master Data change triggers. It also describes how Engineering Change Process will be managed through the navy Configuration Management Process.

Of particular note. The LSAR data set originated from the Shipbuilder will form the basis of the Master Data. It will be used to populate DRMIS data and define the supportability baseline.

The Master Data ICD Package consists of the following documents:

**Folder : Master Data / Business Process Specifications**

File : A-XX - 31 Navy Configuration Management Process Model - Annex O  
File : A-XX - 32 Navy CMMS Data Initialization - Annex P

**Folder : Master Data / Business Use Cases**

File : A-XX - 33 BUC\_2\_1\_Master\_Data\_Outbound

File : A-XX - 34 BUC\_2\_2\_Master\_Data\_Inbound

File : A-XX - 35 BUC\_7\_1\_Navy\_Eng\_Change\_Notification

File : A-XX - 36 BUC\_7\_2\_Navy\_Eng\_Change\_WorkOrder

File : A-XX - 37 BUC\_7\_3\_Navy\_Eng\_Change\_Notification\_ISSC

**Folder : Master Data / Release Notes**

File : A-XX - 38 Navy\_RFP\_MasterData\_Release\_Notes

**Folder : Master Data / Service Specifications**

File : A-XX - 39 EIE-DRMIS master data - Business guidelines ISSCF

File : A-XX - 40 MasterDataEngineeringChangeOperationalModel

File : A-XX - 41 MasterDataToISSCOperatingModel\_Industry

File : A-XX - 42 Navy\_Bill\_Of\_Materiel\_Specification-External

File : A-XX - 43 Navy\_Equipment\_Master\_Record\_Specification-External

File : A-XX - 44 Navy\_Form\_Fit\_Function\_Class\_Specification-External

File : A-XX - 45 Navy\_Functional\_Location\_Specification-External

File : A-XX - 46 Navy\_Industry\_Bill\_Of\_Materiel\_Specification

File : A-XX - 47 Navy\_Industry\_Change\_EMR\_Specification

File : A-XX - 48 Navy\_Industry\_Equipment\_Master\_Record\_Specification

File : A-XX - 49 Navy\_Industry\_Form\_Fit\_Function\_Class\_Specification

File : A-XX - 50 Navy\_Industry\_Functional\_Location\_Specification

File : A-XX - 51 Navy\_Industry\_Maintenance\_Plan\_Specification

File : A-XX - 52 Navy\_Industry\_Maintenance\_Task\_List\_Specification

File : A-XX - 53 Navy\_Industry\_Master\_Parts\_List\_Specification

File : A-XX - 54 Navy\_Industry\_Materiel\_Master\_Record\_Specification

File : A-XX - 55 Navy\_Industry\_Measurement\_Document\_Specification

File : A-XX - 56 Navy\_Industry\_Measurement\_Point\_Specification

File : A-XX - 57 Navy\_Maintenance\_Plan\_Specification-External

File : A-XX - 58 Navy\_Maintenance\_Task\_List\_Specification-External

File : A-XX - 59 Navy\_Master\_Parts\_List\_Specification-External

File : A-XX - 60 Navy\_Materiel\_Master\_Record\_Specification-External

File : A-XX - 61 Navy\_Measurement\_Document\_Specification-External

File : A-XX - 62 Navy\_Measurement\_Point\_Specification-External

### **3.3.4 Supply ICD Package**

The Supply ICD Package consists of those Folders and files that describe how the business of the ISS Supply Chain will be designed and implemented. Primary focus is on Part Demand and Receipt process as well as identification of some key reporting requirements.

The Supply ICD Package consists of the following Folders and Files:

#### **Folder : Supply / Business Process Specifications**

File : A-XX - 63 Navy Supply Process Model Annex M

#### **Folder : Supply / Business Use Cases**

File : A-XX - 64 BUC\_3\_41\_Navy\_Part\_Demand

File : A-XX - 65 BUC\_3\_42\_Navy\_Part\_Demand\_Response

File : A-XX - 66 BUC\_3\_43\_Navy\_Part\_Issue

File : A-XX - 67 BUC\_3\_44\_Navy\_Part\_Receipt

File : A-XX - 68 BUC\_3\_45\_Navy\_Part\_Return\_Issue

File : A-XX - 69 BUC\_3\_46\_Navy\_Part\_Return\_Receipt

File : A-XX - 70 BUC\_3\_47\_Navy\_PackUp\_Kit\_Issue

File : A-XX - 71 BUC\_3\_48\_Navy\_Inventory\_Replenishment

File : A-XX - 72 BUC\_3\_49\_Navy\_Usage\_Report

File : A-XX - 73 BUC\_3\_50\_Navy\_Inventory\_Report

File : A-XX - 74 BUC\_3\_51\_Navy\_Part\_Request\_Report

File : A-XX - 75 BUC\_3\_52\_Navy\_Supply\_EMR

#### **Folder : Supply / Release Notes**

File : A-XX - 76 Navy\_RFP\_Supply\_Release\_Notes

#### **Folder : Supply / Service Specifications**

File : A-XX - 77 MaterielManagementServiceOperationalModel

File : A-XX - 78 Navy\_Inventory\_Replenishment\_Service\_Specification - External

File : A-XX - 79 Navy\_Inventory\_Report\_Service\_Specification - External

File : A-XX - 80 Navy\_Pack-Up\_Kit\_Issue\_Service\_Specification - External

File : A-XX - 81 Navy\_Part\_Demand\_Response\_Service\_Specification - External

File : A-XX - 82 Navy\_Part\_Demand\_Service\_Specification - External

File : A-XX - 83 Navy\_Part\_Issue\_Service\_Specification - External

File : A-XX - 84 Navy\_Part\_Receipt\_Service\_Specification - External

File : A-XX - 85 Navy\_Part\_Request\_Report\_Service\_Specification - External

File : A-XX - 86 Navy\_Part\_Return\_Receipt\_Service\_Specification - External

File : A-XX - 87 Navy\_Part\_Return\_Service\_Specification - External

File : A-XX - 88 Navy\_Usage\_Report\_Service\_Specification - External

### **3.3.5 Technical Service ICD Package**

The Technical Service ICD Package describes those folders and files used to manage Dead Messages within the EDE. This interface will be used by Canada EDE and Industry to report **Dead Messages** to each other. A dead message is message which the sender (Canada EDE or Industry) determines cannot be successfully transmitted to the intended recipient or a message (Industry or Canada EDE) for which the recipient cannot formulate a valid technical response.

#### **Folder : Technical Services / Release Notes**

File : A-XX - 89 Navy\_RFP\_TechnicalServices\_Release\_Notes

#### **Folder : Technical Services / Service Specifications**

File : A-XX-90 DeadMessage\_Specification-External

### **3.3.6 Technical Problem Management System (TPMS) ICD Package**

The TPMS ICD Package consist of those documents to design and implement the TPMS EDE business requirements. This Package consists of the following Folders and Files;

#### **Folder : TPMS / Business Process Specification**

File : A-XX-91 Navy Technical Problem Management Process Model - Annex N

#### **Folder : TPMS / Business Use Cases**

File : A-XX - 92 BUC 5.21 Navy - Exchange Technical Problem Data

#### **Folder : TPMS / Release Notes**

File : A-XX - 93 Navy\_RFP\_TechnicalProblem\_Release\_Notes

**Folder : TPMS / Service Specifications**

File : A-XX- 94 TechnicalProblemManagement\_Specification-External