

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 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