



Electronic Information Environment (EIE)

[PROGRAM] EIE DND - [PARTNER] Connectivity for [ENVIRONMENT]

Objective: To provide network connectivity and protocol specifications to be used to configure the [ENVIRONMENT] environment for the interface between DND and [PARTNER] in support of the [PROGRAM] project.

EIE Project

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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.



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1 Introduction

The Electronic Information Environment (EIE) is responsible for developing and implementing the gateway between [PARTNER] and DND under the [PROGRAM] Project.

This document will define several technical attributes agreed to by [PARTNER] and DND:

- Secure socket layer (SSL) and transport configurations for the SSL
- Certificates that will be used for signing messages that are transmitted
- Participants
- Connectivity diagram that describes the connection end-points
- Published URIs for both [PARTNER] and DND

All data exchanged between [PARTNER] and DND shall be UNCLASSIFIED.

Server to server communication will use the HTTPS protocol for confidentiality and authentication. See Section 2 for detail specifications.

The information that is referenced in this document applies only to the specific environment for which it is targeted.

This document is an EIE configuration item and any changes must follow the formal EIE change management process.

2 Network

2.1 Overview

Below is a simplified network diagram of the [PARTNER] to DND connection for the [ENVIRONMENT] environment.

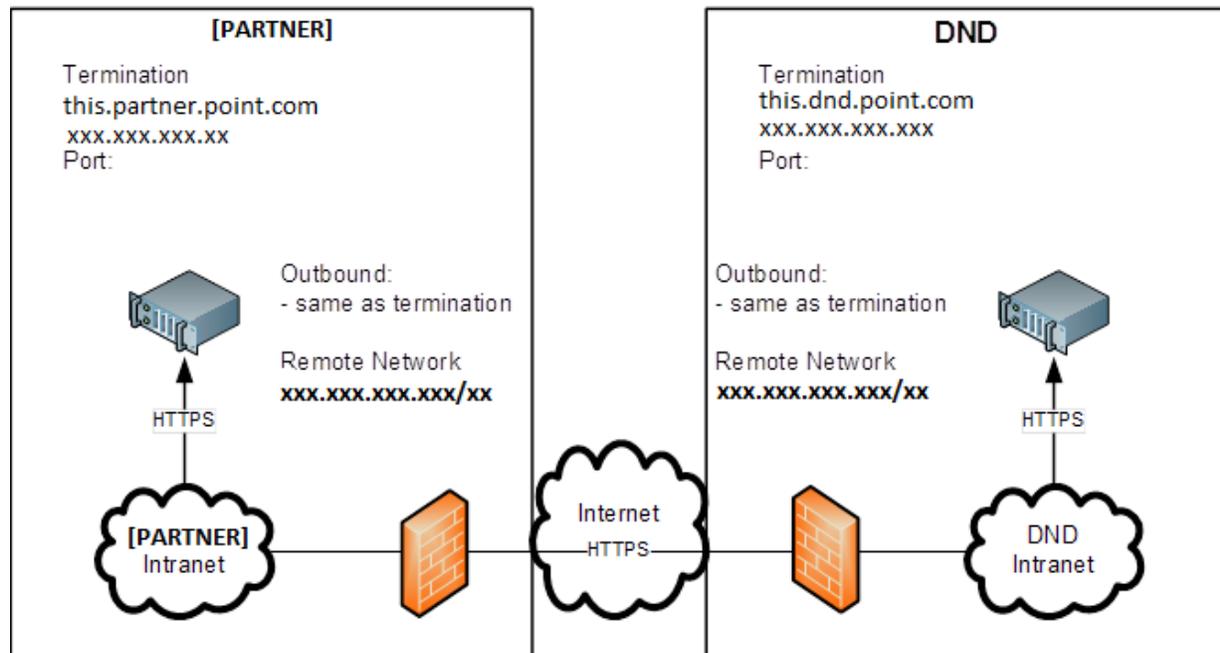


Figure 2-1

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2.2 Connectivity Specifications

The connectivity specifications are detailed in Table 2-1: Connectivity Specifications.

Environment	URL (IP address)	PORT
DND		
Quality Assurance (QA)		
Termination Address		
Remote Network IP address		
Source (Sending) IP address		
[PARTNER]		
Quality Assurance (QA)		
Termination Address		
Remote Network IP address		
Source (Sending) IP address		

Table 2-1: Connectivity Specifications

2.3 Transport Layer Security Specifications

The Transport Layer Security specifications are detailed in Table 2-2: Transport Layer Security Specifications. Specifications are common to each environment unless explicitly identified.

Item	Option	Value	Comment
T1	Transport Layer Settings		
T1.1	TLS		Note: SSL not allowed
T1.2	SSL Authentication	Mutual	
T1.3	Host Authorization	No	

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Item	Option	Value	Comment
T2	Certificate Settings		
T2.1	Issuer		
T2.2	Key Type		
T2.3	Key Length		
T2.4	Encryption Algorithm		
T2.5	Authentication Algorithm		
T2.6	Key Usage	Digital Signature Key Encipherment	
T2.7	Validity Time		DND allows up to 5 years for Partners.
T2.8	DN form	Full	
T2.8a	DND DN example	CN = OU = O = C =	
T2.8b	Partner DN example		

Table 2-2: Transport Layer Security Specifications

2.4 Web Services Operating Specifications

The Web Services (WS) operating specifications are detailed in Table 2-2: Transport Layer Security Specifications. Specifications are common to each environment unless explicitly identified.

Item	Option	Value	Comment
W1	WS Settings		
W1.1	Web Services Interoperability (WS-I)		

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Item	Option	Value	Comment
W1.2	Transport		
W1.3	Message Format and Protocols		
W1.4	Identity and Location		
W1.5	Quality of Service		
W1.6	Service Definition		
W2	Certificate Settings		
W2.1	Issuer	Certificate Authority	DND: Partner:
W2.2	Key Type		
W2.3	Key Length		
W2.4	Encryption Algorithm		
W2.5	Authentication Algorithm		
W2.6	Key Usage	Digital Signature Key Encipherment	
W2.7	Validity Time		DND allows up to 5 years for Partners.
W2.8	DN form	Full	
W2.9a	DND DN example	CN = OU = O = GC C = CA	
W2.9b	Partner DN example		

Table 2-3: Web Services Specifications

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2.5 Security Certificates

2.5.1 DND

The security certificates for DND are itemized in Table 2-4: DND Security Certificates using the Common Name (CN). File names typically add “.crt” as the extension.

Environment	Certificate	Domain
DND Certificate Authority Certificates		
All		
DND Transport (TLS/SSL) Certificates		
QA		
DND WS (Service) Security Certificates		
QA		Maintenance
		MasterData
		Supply
		TechnicalProblem
		TechnicalServices
		Training

Table 2-4: DND Security Certificates

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2.5.2 [PARTNER]

The security certificates for [PARTNER] are itemized in Table 2-5: [PARTNER] Security Certificates using the Common Name (CN).

Environment	Certificate	Domain
[PARTNER] Certificate Authority Certificates		
All		
[PARTNER] Transport (TLS/SSL) Certificates		
QA		
[PARTNER] WS (Service) Security Certificates		
QA		Maintenance
		MasterData
		Supply
		TechnicalProblem
		TechnicalServices
		Training

Table 2-5: [PARTNER] Security Certificates

3 Contacts

[PARTNER] Contacts	DND Contacts
[PARTNER] Project Manager <name> <phone> <email>	DND EIE Project Manager <name> <phone> <email>
[PARTNER] Solution Architect	DND EIE Solution Architect
[PARTNER] Infrastructure Architect	DND EIE Infrastructure Architect
[PARTNER] Configuration Manager	DND EIE Configuration Manager

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[PARTNER] Test Coordinator	DND EIE Test Coordinator
[PARTNER] Security Architect	DND EIE Security Architect
	DND DRMIS Technical Team

Table 3-1: Contact Information

4 Support Process

4.1.1 Issue Contacts

The preliminary contact support process between [PARTNER] and DND is provided in Table 4-1: Issue Contacts.

Issue	[PARTNER] Contact(s)	DND Contact(s)
Technical Issue		
Technical Escalation		
Testing Issue		
Testing Escalation		

Table 4-1: Issue Contacts

4.1.2 Hours of Operation

The following identifies the basic hours of operation at each site. The hours are regular business hours unless both parties agree to extend them if required to meet schedule requirements.

4.1.2.1 DND

Regular business hours:

4.1.2.2 [PARTNER]

Regular business hours:

4.1.3 Security Certificate Contacts

Security certificates are required to be exchanged between each organization on a mutually agreeable schedule. The exchange schedule will be published and maintained separately from this document as various security certificates will have different expiry and renewal dates.

Security certificates will be exchanged via secure email between the contacts listed in Table 4-2: Security Certificate Contacts. Any security certificates exchanged will be logged and notifications sent to each Test Coordinator upon successful receipt.

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Certificate Issue	[PARTNER] Contact	DND Contact
Primary		
Secondary		
Technical Escalation		

Table 4-2: Security Certificate Contacts

5 Published URIs

Each organization publishes a set of Uniform Resource Identifiers (URI) that the other organization communicates with. These URIs are managed through the change control and configuration management processes agreed upon by both organizations. The protocol and address of the target organization (i.e. <https://env.eie.isscf.forces.gc.ca>) is appended to the beginning of the URI to provide the full network address.

5.1 DND URIs

DND hosts the following services as listed in Table 5-1: DND URIs.

Domain and Services Published	WSDL and URI
Cross Domain	
[SERVICE]	WSDL: URI:
Master Data	
[SERVICE]	WSDL: URI:
Maintenance History	
[SERVICE]	WSDL: URI:

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Domain and Services Published	WSDL and URI
Supply	
[SERVICE]	WSDL: URI:
TPMS	
[SERVICE]	WSDL: URI:
Technical Services	
[SERVICE]	WSDL: URI:

Table 5-1: DND URIs

5.2 [PARTNER] URIs

[PARTNER] hosts the following services as listed in Table 5-2: [PARTNER] URIs.

Domain and Services Published	WSDL and URI
Cross Domain	
[SERVICE]	WSDL: URI:
Master Data	
[SERVICE]	WSDL: URI:
Maintenance History	
[SERVICE]	WSDL: URI:

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Domain and Services Published	WSDL and URI
Supply	
[SERVICE]	WSDL: URI:
TPMS	
[SERVICE]	WSDL: URI:
Technical Services	
[SERVICE]	WSDL: URI:

Table 5-2: [PARTNER] URIs

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6 Document History

Revision Number	Description	Date (YYYY-MM-DD)
1.0	Initial version of document	2014-09-25

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