

Electronic Information Environment (EIE)

Electronic Data Exchange (EDE) - Operational Model Landscape

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

Electronic Data Exchange (EDE) is an information exchange that enables information exchange across Canada Department of National Defence (DND) and its Industry Partners. The Canada EDE is built to host a number of Web Services that Canada hosts. Similarly Canada Industry Partners who participate in the In-Service-Support Contracting (ISSCF) or Performance Based Contracting (PBC) program with DND will have built a set of complimentary web services that Canada will consume.

As EDE is a software system that enables the ISSCF/PBC program, the content and the capability that is present with the EDE will evolve overtime and will be required to be maintained, enhanced over the life of the In-Service-Support period of the ISSCF/PBC program.

Infrastructure required for enabling the required service interactions with Canada and Industry Partners exposed services via the EDE to support the lifecycle of:

- Development/Enhancement
- Integration testing by Development Teams
- Functional Integration Testing By Testing Teams
- Formal Functional Testing by Client Community in support of acceptance of the solution
- Production Operations by the Operations user community

1.1 Scope

The document will define the environments that exist within the Canada EDE landscape and also specify the requirements for the Industry Partners who have been contracted to provide services to Canada DND under ISSCF/PBC program.

Canada EDE is deployed across two networks with each network serving a distinct and bounded purpose.

The two networks are physically segregated and as such there is no physical connection between them. The networks are named as follows:

Test and Development (TDC) Network

The purpose of the TDC is to support software development from the conceptual to logical and physical design and development phases, as well as the In-Service-Support phase in support of production identified defects and enhancements that will be required over the life of the ISSCF/PBC program. As such the environments that exist support the varied capabilities that are required and will be resident within the development network.

- PKI Certificates that will be used for security aspects are required to be unique and distinct for each layer
 - Transport Layer
 - Service Layer Web Service Message Signing Certificate
 - Environment specific Certificate for each of the Transport layer and Service certificate
 - Certificate Issued by a verifiable Certificate Authority accepted by Canada

Defence Wide Area Network (DWAN)

The purpose of the DWAN is to support customer acceptance functions and Production operations. As such is limited to what capabilities and activities application teams are allowed to perform. In the context of EDE solution DWAN environment only permits a limited set of software release activities namely Customer

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Acceptance Functions as it relates to a solution or capability and Production function of the solution operated by business user community to support the business operations.

- PKI Certificates that will be used for security aspects are required to be unique and distinct for each layer
 - Transport Layer
 - Service Layer Web Service Message Signing Certificate
 - Environment specific Certificate for each of the Transport layer and Service certificate
 - Certificate Issued by a verifiable Certificate Authority accepted by Canada

1.2 References

[Ref. 1] Electronic Data Exchange (EDE) Service Interaction Model: In the Context of In-Service Support Contracting Framework (ISSCF) *

- *- Applicable to Industry Partners who have received the above document
- Note: For Industry Partners who have not received the Ref. 1. The equivalent document as agreed to with the Industry Partner and Canada will serve as a base reference with the environment specific operational requirements being derived from this document.

2 Environment Landscape

The environments that are described below are intended to support In-Service-Support Contracting Framework (ISSCF)/Performance Based Contracting (PBC)– EDE solution from inception through all phases of deployment to production as well the In-Service-Support phases of the program.

The figure below depicts the transitions of software capability as it progress through the various cycles of software development until its eventual release to Production for use by the business community to support operations.

Each of the environments serves a particular requirement for the development and on-going sustainment of the EDE solution. As per the EDE model both Canada and its Industry Partners are required to provide capability in support of the ISSCF/PBC program, it is important to understand the purpose of each environment and determine which of these environments need to be sustained and maintained for the life of the ISSCF/PBC program.

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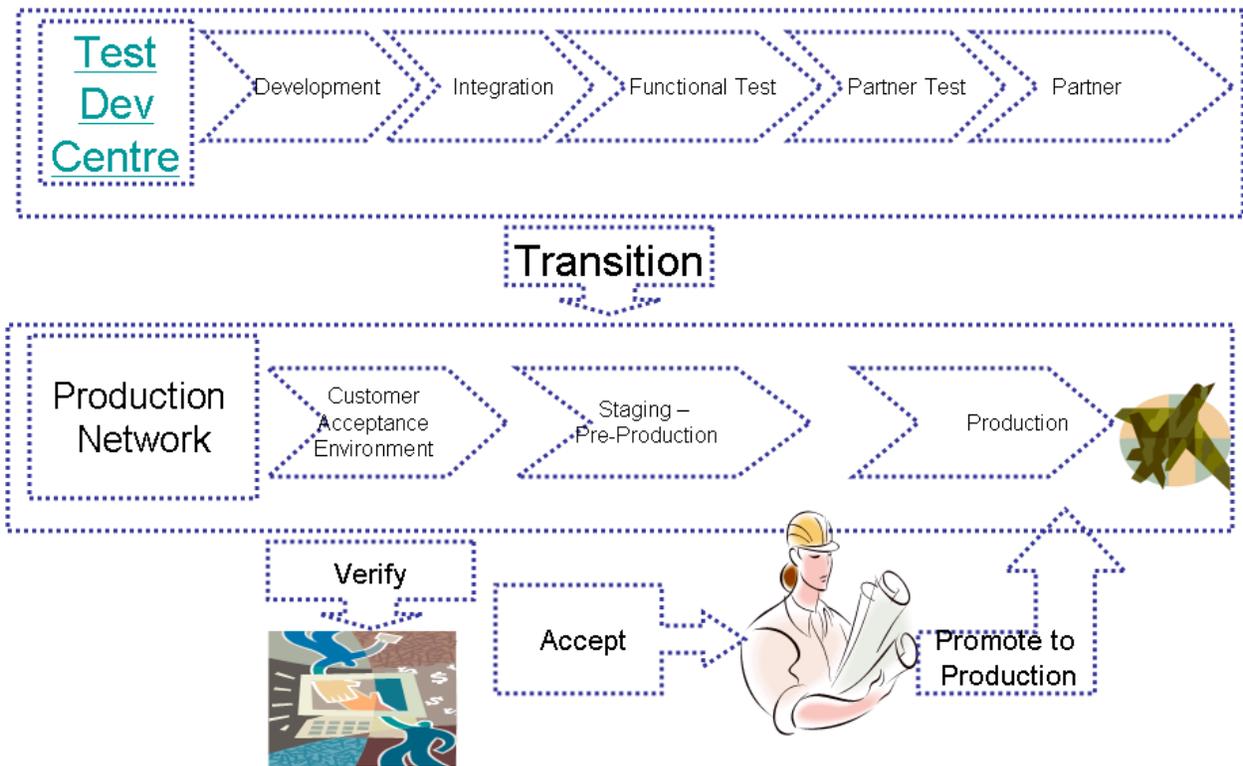


Figure 2.2.1-1 Electronic Data Exchange Environment Landscape

2.1 Environment Usage Decomposed

The table below describes the scheme under which each of the environments will be used and the associated responsibilities for both Canada DND and Industry Partner to support the capabilities required for each of the environments listed below.

The shading of rows and the associated “**Landscape Identifier ID**” provides a visual mechanism to the reader to understand the relationship between the environment and the integration requirement between Canada DND and its Industry Partners.

Landscape Identifier ID	Shading Based on Integrated Usage scope	Canada Requirements	Industry Requirement
EDE-Landscape-001	Internal Used for Development of the EDE solution. Available internally to each organization Canada/Industry Partner	No requirement to integrate with Industry	No requirement to integrate with Canada
EDE-Landscape-002	Available and	Canada has to support and make available to industry	Industry has to support and make available to Canada

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Landscape Identifier ID	Shading Based on Integrated Usage scope	Canada Requirements	Industry Requirement
	Integrated with Industry	for the scope of activities that are supported within the environment as per defined constraints for the environments.	for the scope of activities that are supported within the environment and as per defined constraints for the environments.
EDE-Landscape-003	Available In Canada	<ul style="list-style-type: none"> Support production version of service across all Industry Partners with a stubbed sample data per service 	Industry Partner/platform can choose to use with the constraints that are defined for the environment
EDE-Landscape-004	Available In Canada	<ul style="list-style-type: none"> Used for Development Lifecycle Internal Testing cycles between EDE and Canada internal systems Available to Integrate with Industry based on agreed to scope 	Industry can choose to expose to Canada based on a specific need.
EDE-Landscape-005	Available at both Canada and Industry for Opportunistic Integration verification	<ul style="list-style-type: none"> Verification of a specific technical feature Typical In early phase of the program New technical feature being considered when in ISS phase 	Industry partner may make available to Canada for technical aspects that need to be jointly verified <ul style="list-style-type: none"> Lead by Technical Solution Point of Contact Scheduled and Managed by Technical Solution Point of Contact Canada and Industry technical development teams

Table 2.2.1-1 Environment Usage Based On Integration Need between Industry and Canada

2.2 Environment Purpose Capability Responsibility

The environments that have been commissioned by Canada are based on the following model:

Environment: The English name of the environment along with the technical name

Purpose: The objective and the capability expected of the environment

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Data Support Model: Provides a disposition on the data requirements for the environment that is coupled with the purpose of the environment

Responsible /Check Points: Define the specific roles (Development, Test Lead, Business User) and the particular check points under which the environment will be used

The table below provides a breakdown of the environment that Canada EDE has provisioned and which of these environments require a complimentary environment to be hosted by Industry Partner as represented by the colour coding scheme for the rows within the table.

Landscape Identifier ID	Environment	Data Support Model	Purpose	Responsible/ Check Points
EDE-Landscape-001	Development (Dev)	Stubs based on artificially created data.	Development integration environment	Development Team
EDE-Landscape-005	Integration(INT)	Semi-real Stub data with no back-end	<ul style="list-style-type: none"> • Early Integration Between DND and Industry Teams • Eliminate Integration Differences • Code is still in development control 	<ul style="list-style-type: none"> • Technical Solution Point of Contact • Predefined Established Integration Check Points
EDE-Landscape-004	Functional Test (TEST)	Pre Established Data – Semi-real with no back-end	<ul style="list-style-type: none"> • Preliminary Integration Testing • Technical validation of Services • Internal to each organization 	<ul style="list-style-type: none"> • Lead by Test Team Internal to each organization • Supported by Development/Integration Team

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Landscape Identifier ID	Environment	Data Support Model	Purpose	Responsible/ Check Points
EDE-Landscape-002	Partner Test (PTEST)	Connected to Back End System based on Testing Cycle requirements	<ul style="list-style-type: none"> • Partner Testing for Initial Technical Verification • Partner Test for functional based testing 	<ul style="list-style-type: none"> • Lead by Testing Lead from each organization • Predefined Test cycles as per the Program Requirements (Preliminary/Phase Integration Testing (PIT), Joint Integration Testing (JIT)) • Verification of Enhancement and Defects rectified during Testing Cycles • Production observed defects/enhancements • Scheduled and Managed
EDE-Landscape-003	Partner (PAR)	Stub based on sample data generated from backend systems per fleet and preserved as per specification/version of the service	<ul style="list-style-type: none"> • Conclusion of Functional Testing Cycle and Promotion To Production • Used to validate any internal changes against pre-established data 	<ul style="list-style-type: none"> • Testing Lead from each organization • Opportunistically Used • Scheduled and Managed • Supports verification of Interface behaviour when outside of a test cycle • Scheduled and Managed

Table 2.2.1-1 Test Development Network (TDC) - Hosted Environments

Development (EDE-Landscape-001) – The environment is used for internal development within Canada EDE in support EDE hosted capability.

Integration (EDE-Landscape-005) – Integration environment’s primary purpose is to ensure that developed capability can be verified and early integration conducted with internal DND systems. Additionally, if an early integration is required to verify certain capability with a specific Industry Partner it can be used for that purpose. Industry Partners have no requirement to commission a distinct environment for this type of integration with Canada, but is advised to consider commissioning of such an environment if there are technology constructs that requires Canada’s participation at any point during the lifecycle of the ISSCF/PBC program.

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Test (EDE-Landscape-004) – Test environment’s primary purpose is to provide for early verification from both a technical and functional verification with internal systems within each organization. The verification is lead by Test team members internal to each organization. Industry Partners have no requirement to connect to this environment hosted by Canada EDE.

Partner Test (EDE-Landscape-002) – Partner Test environment primary responsibilities are to support the phases of the testing cycle prior to customer acceptance testing. This environment has to be integrated and remain in sync with Canada during the particular test cycle for the specific platform and Industry Partner.

Additionally, following the deployment of the capability to Production defects that are identified and enhancement that have been identified will need to be scheduled, in order to be verified, prior to being promoted to (CAT/UAT/Staging - Pre-Production) environment.

If the defects and enhancement that has an been implemented have impact to the interfaces between Canada EDE and Industry Partner hosted services, this will need to be tested and verified prior to being promoted to the (CAT/UAT/Staging - Pre-Production) within this environment as well. Thus both Canada EDE and Industry Partner have to support the environment based on a mutually agreed to schedule to verify the changes.

Partner (EDE-Landscape-003) – Partner environment will mirror the version and capability of the services that are currently in production. However, the data that are used in the service will not have any connectivity to backend systems as it operates in a stubbed mode of operations. Canada EDE will provide this environment for access by Industry Partners. Industry Partners will have to coordinate with Canada EDE Testing Lead and the respective project management office to execute any testing within this environment.

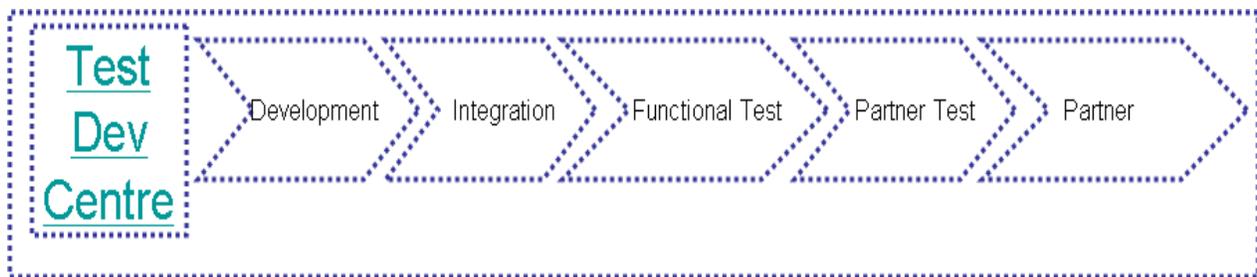


Figure 2.2.1-1 Capability Development and Promotion Path

As per Figure 2.2.1-1 Capability Development and Promotion Path, the progression of capability and verification of the same as depicted provides the required gates prior to declaring capabilities available for CAT/UAT/Pre-Production. As depicted in the figure the entire set of environments listed above reside in Canada DND’s TDC network and support the scope of what is expected for the phases development and testing of the capability and it readiness to be promoted to the Production network.

2.2.1 Logical Deployment Model – Test and Development Centre

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The logical deployment depicts the physical data centre and the access point via which Industry Partners access Canada hosted environment at the Test and Development Centre.

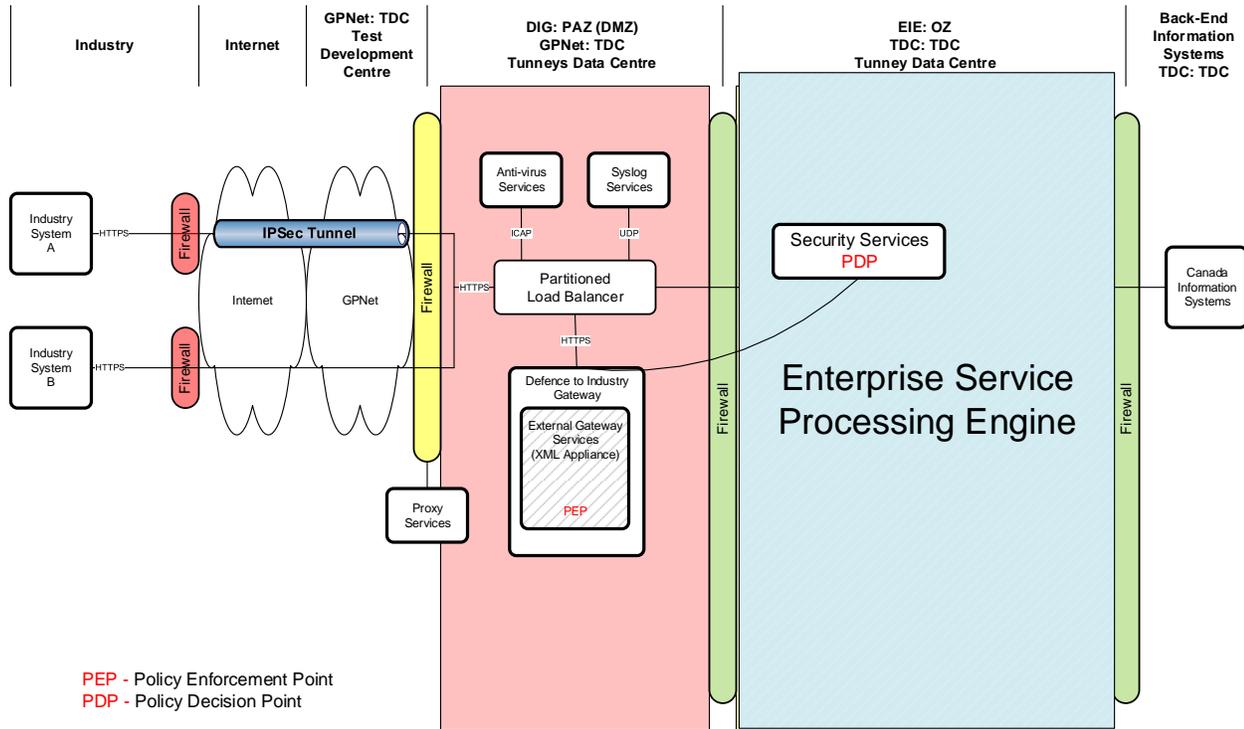


Figure 2.2.1-1 Logical Deployment Model - Test and Development Centre

2.2.2 Transition to Production Network (DWAN)

Once deployed on to the production network. The first environment where the next phase of the solution/capability acceptance will occur is as shown in the Figure 2.2.2-1 Progression of Capability on Production Network is the CAT/UAT/Staging-Pre-Production environment. (All of these environment purposes are physically represented as a single environment) on the Production network known in the EDE vernacular as Quality Assurance (QA). Based on the scope of the change, Canada and Industry Partners will engage in Business user lead verification prior to declaring the capability to be ready for promotion to the Production environment.

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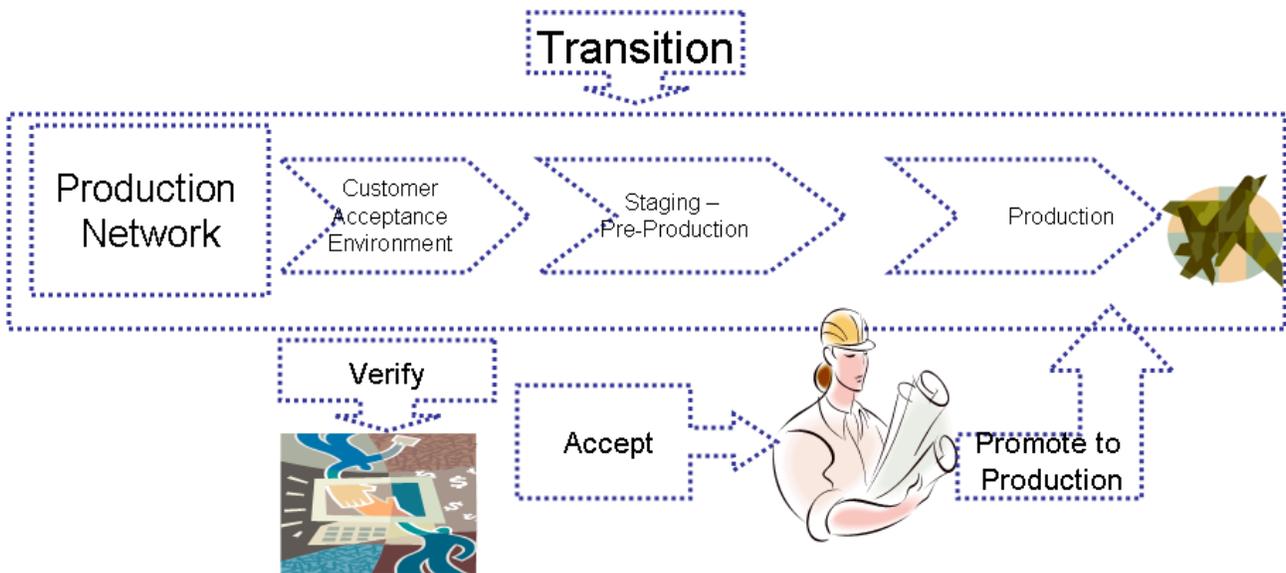


Figure 2.2.2-1 Progression of Capability on Production Network

Customer Acceptance Test (CAT)/User Acceptance Test (UAT)/Quality Assurance (QA)- [EDE-Landscape-002] –

The primary aspect of this environment is to support a business customer acceptance or verifying a solution or enhancement prior to declaring readiness to promote the capability to Production. For both major and minor releases it also serves as staging environment prior deploying to the Production instance.

- The controls in terms of non-functional requirements (Security, Monitoring etc.,) are similar to those in production and Application team need to adhere to these controls
- The business user for the specific weapons system platform is accepting the solution based on the successful integration with their platform specific Industry Partner
- The CAT/UAT environment will follow a predefined release path and will only available for the specific Industry Partner to use if the capability that is in the release to Production has a component that require verification/acceptance by the business user for the specific platform

Production Environment (EDE-Landscape-002)

Production environment as the name suggests where the specific solution is operated by the target user community to perform the required business functions.

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Landscape Identifier ID	Environment	Data Support Model	Purpose	Responsible/ Checkpoints
EDE-Landscape-002	Customer Acceptance/Quality Assurance/ Staging (QA)	Connected end-to-end including back-end systems	Functional verification of the Entire Solution	<ul style="list-style-type: none"> Facilitated by Testing Lead Scheduled and Managed as per the platform specific need Execution by nominated Business User from both Canada and Industry teams.
EDE-Landscape-002	Production	Connected end-to-end (all systems)	End User Operator	<ul style="list-style-type: none"> On-going support to business operations during the In-Service-Support Phase

Table 2.2.2-1 Production Network (DWAN) - Hosted Environment

2.2.3 Logical Deployment Model Production Network

The logical deployment depicts the physical data centre and the access point via which the Industry Partners access Canada hosted environments on the Production network.

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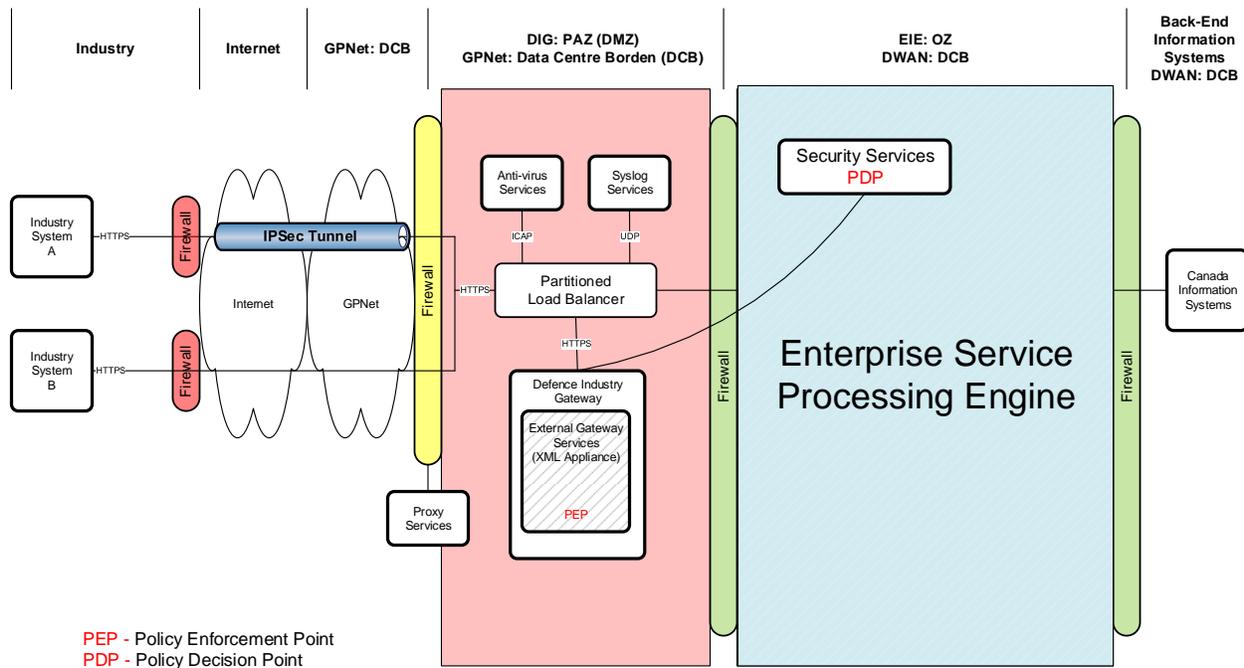


Figure 2.2.3-1 Logical Deployment Model - Production Network (DWAN)

2.3 Security Requirements

The security requirements for all of the environments are listed below and will have to be adhered to in order to interface with Canada EDE provided services and capabilities.

Both Canada DND and Industry Partners should have the capability to support overlapping certificates for any of the type of certificates that will be used across the various environments. The overlapping certificate should support deployment of renewal certificates without impacting the existing certificates in use within the target environments where the certificates are deployed.

Verifiable certificate authority in the context of this document is a term used to describe certificate authorities that Canada DND can independently verify per Canada's PKI Policies and Practice statements.

All Certificates issued by Canada are of Medium Assurance Grade and Industry partner are required to provide the same. The specific attributes for the required PKI element are defined in the environment specific connectivity document for each Industry partner and are configuration managed by Canada DND and Industry partner per target environment and network being accessed.

2.3.1 IPsec Tunnel

The current mode of security authentication mechanism is to use Pre-Shared keys for industry partners who participate in this form of communication with Canada for the base transport layer. The specific configuration for the IPsec tunnel will be defined within the connectivity document established for each Industry partner and are configuration managed by Canada DND and Industry partner per target environment and network being accessed.

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2.3.2 Transport Layer Security Certificate

Each Environment will have a separate Transport Certificate

Every environment that is hosted by Canada will have a distinct and environment specific transport layer certificate and will not be shared with another Canada hosted environment. Canada will only deploy the environment-specific certificate to the target environment and expects the same from an Industry Partner perspective.

Access to the EDE from Industry Partners is controlled by enabling transport layer security as per the configuration specified within Industry Partner environment and network-specific connectivity document that will be base-lined and configuration managed between Canada EDE and Industry Partners.

2.3.2.1 Industry Partner Issued Transport Certificates

Each Industry Partner is required to provide the following transport certificate that will be presented to:

- EDE external gateway that is accessible by Industry Partners

DND requires a minimum of three unique transport certificates

- one for the TDC network,
- one for the Quality Assurance environment on the DWAN network, and
- one for the Production environment on the DWAN network
- Industry partner provides a Certificate signed by a Certificate Authority that is accepted by Canada

Industry should provide transport certificates that are signed by a verifiable Certificate Authority and is acceptable to Canada.

In the case where the Industry Partner establishes more than one test environment that is accessible from Canada’s TDC network hosted environment, the Industry Partner may choose (but is not required) to issue a unique transport certificate for each of the environment that is being accessed by Canada.

2.3.2.2 DND Issued Transport Certificates

DND will issue public key for the Transport certificates for each environments that is accessible to the Industry Partner. These certificates will only be active for the specific environment. The public transport certificate should only be deployed on the environment for which it was assigned to be used and will be referenced in the Industry Partner/environment-specific connectivity document which will serve as the authoritative source for the specific certificates being deployed.

DND Issued Industry Partner Transport Certificate Name Convention			
(each field is delimited by a period “.” character)			
Field	Value	Length	Example
Field -1	Environment	Maximum 5 characters	dev

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Field-2	Type: [t]	One character	t
Field-3	EIE Identifier: [eie]	Three characters	eie
Field-4	ISSCF Identifier: [isscf]	Five characters	isscf
Field-5	URL Domain: [forces.gc.ca]	Maximum 16 characters	forces.gc.ca
Complete Example: dev.t.eie.isscf.forces.gc.ca			

Table 2.3.2-1 Naming Convention for transport certificate issued by DND to Industry Partners

2.3.3 Web Service Message Signing Certificates

In the context of EDE every web service message is signed by the originating system and verified by the target system based on the certificates that have been previously shared. The six EIE business domains are: Maintenance, Master Data, Supply, Technical Problems, Technical Services and Training.

2.3.3.1 DND Issued Service Certificates

Canada EDE follows the model as described below with regards to issuance of the signing certificate, its associated usage and interaction with the specific Industry Partner.

The DND EDE uses service certificates as one of the mechanisms to refine the control of which services can be accessed by each Industry Partner. The service certificates are implemented at the EDE business domain level. In this way if a service certificate is compromised only the services in one business domain per Industry Partner per environment may be impacted.

Every environment will have a distinct web services signing certificates and cannot be shared with another environment.

- Canada DND will use a finer grained signing certificate model. Canada will use a distinct signing certificate by business domain and by Industry Partner and by environment. Every certificate that is used for signing a web service message that is signed by Canada will use this model
- Canada DND will issue the public PKI Certificates to Industry Partners for each business domain and environment for the specific Industry Partner and maintains the association of the same within the Canada Security Repository
- DND use its own certificate authority (CA) DND CA to issue certificates that are used by Canada EDE
- Industry partner provides a Certificate signed by a Certificate Authority that is accepted by Canada

2.3.3.1.1 DND EIE Service Certificate Naming (CN) Convention

The following naming convention reflects that each service certificate issued by Canada DND EDE is specific to the environment and the Industry Partner. The naming convention consists of six fields (see Table 2.3.3-1: Naming Convention for DND EIE issued service certificates).

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DND EIE Issued Service Certificate Name Convention (each field is delimited by a period "." character)			
Field	Value	Length	Example
Field -1	Environment	Maximum 5 characters	dev
Field-2	Type: [s]	One character	s
Field-3	Business Domain	Maximum 12 characters	supply
Field-4	Partner & Fleet Identifier	Maximum 20 characters	boeingCH147F
Field-5	EIE Identifier: [eie.isscf]	Nine characters	eie.isscf
Field-6	URL Domain: [forces.gc.ca]	Maximum 12 characters	forces.gc.ca
Complete Example: dev.s.supply.boeingCH147F.eie.isscf.forces.gc.ca			

Table 2.3.3-1: Naming Convention for DND EIE issued service certificates

2.3.3.2 Industry-Partner Issued Service Certificates

Although EDE has implemented a solution that will support unique service certificates to the level of granularity of an EDE business domain, DND does not require Industry Partners to generate a unique service certificate per business domain.

EDE requires a minimum of three unique service certificates

- one for the TDC network,
- one for the Quality Assurance environment on the DWAN network, and
- One for the Production environment on the DWAN network
- Industry partner provides a Certificate signed by a Certificate Authority that is accepted by Canada

Industry should provide signing certificates that are signed by a verifiable Certificate Authority and is acceptable to Canada.

If Industry-Partner determines that it wants to support Canada EDE's service certificate model, Canada EDE can support the model within its existing security architecture. In the case where the Industry Partner establishes more than one test environment that is accessible from Canada's TDC network hosted environment, the Industry Partner may choose (but is not required) to issue a unique service certificate for each of the environment that is being accessed Canada.

3 Operational Model

The requirements and the operational model to access the environment presented within this document will serve as the authoritative source for all Industry Partners who participate in the context of the ISSCF/PBC program. The specific configuration for each of the environments will be captured in the Industry Partner-

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specific Connectivity specifications that are configuration managed between Canada EDE and its respective Industry partners.

For Industry Partners who have been provided additional documentation as part of the Interface Control Documents released by Canada EDE. The domain specific operational model and the overarching Service Interaction model along with this document serves as the complete package of requirements for interacting with Canada provided environments in support of the ISSCF/PBC program.

For Industry partner who have produced specification and Interface Control Document (ICD) type of documents that Canada has accepted the specific document that will support these requirements will need to defined and produced to Canada for acceptance.

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4 Document History

Revision #	Description	Date (Day-Month-Year)
1.0	Release to Industry Partner	28-October-2013
1.1	Included Use of IPSEC tunnel security model Amplification statement for purpose of the certificate usage across layers	1- November-2013
1.2	Referenced Performance Based Contracting (PBC)	8 October 2015

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