Document ID 0006	
Appendix to 0005	

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
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Approved by	*Classification*
Anders Wendel, Head of Navelink	Consortium Unclassified Released Public

Enrolment level specification

This document describes the different levels of enrolment that can be selected.

The following levels of enrolment have been defined, plus the opportunity to become a full member of the consortium or enrolment through negotiation (called Other Enrolment).

Full operational enrolment

Full operational enrolment is recommended for those organizations that intend to be operational service providers, service consumer and technical service producer. The enrolment gives access to both Identity and Service Registry in all environments as well as invitations to online forum meetings and all document library.

Limited operational enrolment

Limited operational enrolment is recommended for those organizations that intend to acts mainly as operational service provider and service consumer. The enrolment gives access to both Identity and Service Registry in TEST and OPERATIONAL environments as well as invitations to online forum meetings and all document library.

Minimal operational enrolment

Minimal operational enrolment is recommended for those organizations that only need identity and authentication functionality (PKI). The enrolment gives access only to Identity Registry in TEST and OPERATIONAL environment.

Service development enrolment

Service development enrolment is recommended for those organizations that intend to act only as technical service producers. The organization can act as technical service producer for full or limited operationally enrolled organizations. The enrolment gives access to both Identity and Service Registry in DEVELOPMENT and TEST environments as well as invitations to online forum meetings and document library.

Consortium member

As consortium member you are part of forming the future of the non-profit Navelink as a Governance Board member. The enrolment gives access to both Identity and Service

Document ID			
0006			
Appendix to			
0005			

Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

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Registry in all environments as well as invitations to online forum meetings, all document libraries, and all support and service approvals is included.

Other enrolment

If you have lead in a larger project representing several organizations or you represent a larger organization with need to register a larger amount of identities (such as ships), enrollment can be applied as "Other enrolment" where negotiations will be conducted in order to define your needs.

Document ID 0006						
Appendix to 0005						

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by Governance Office	*Unit*	*Date* 2020-03-31	*Issue* 1.1	*Project number* N/A

Approved by Anders Wendel, Head of Navelink	*Classification* Consortium Unclassified Released Public

Summary Table

	Consortium member**	Full operational enrolment	Limited operational enrolment	Minimal operational enrolment	Service development enrolment	Other enrolment
Consortium Agreement	✓					
Service Agreement	✓	✓	✓	✓	✓	✓*
Co-operation Agreement						✓
Enrolment fee		✓	✓	✓	✓	
Decide on Navelink development (participation in Governance Board)	✓					
Frontdesk ordinary office hours (CET)	✓	✓	✓	✓	✓	
Incident support 24/7	✓	✓	✓	✓	✓	
Administrative support ordinary office hours (CET)	✓	✓	✓	✓	✓	
Technical support ordinary office hours (CET)	✓	✓			✓	
Online Forums	✓	✓	✓	✓	✓	

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Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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Forum Document library (My Pages)	✓	✓			✓	
Public Document library (external)	✓	✓	✓	✓	✓	
Consortium Member Library	✓					
OPERATIONAL environment						
Identity Registry	✓	✓	✓	✓	✓	
Service Registry	✓	✓	✓		✓	
1-10 Identities	✓	✓	✓	✓***		
11-100 identities	✓	Fee	Fee	Fee		
101- 1000	✓	Fee	Fee	Fee		
1001- infinite	✓	Fee	Fee	Fee		
Administration Rights within own Organization	✓	✓				
Act on behalf	✓	✓				
Appoint "contractor" to act on behalf	✓	✓	✓	✓		
Management Portal + REST API	✓	✓	✓	✓		
TEST environment						
Identity Registry	✓	✓	✓	✓	✓	
Service Registry	✓	✓	✓		✓	
1-10 Identities	✓	✓	✓	✓***	✓	

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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11-100 identities	✓	Fee	Fee	Fee	Fee	
101- 1000	✓	Fee	Fee	Fee	Fee	
1001- infinite	✓	Fee	Fee	Fee	Fee	
Administration Rights within own Organization	✓	✓			✓	
Act on behalf	✓	✓			✓	
Appoint "contractor" to act on behalf	✓	✓	✓	✓	✓	
Management Portal + REST API	✓	✓	✓	✓	✓	
DEVELOPMENT environment						
Identity Registry	✓	✓			✓	
Service Registry	✓	✓			✓	
1-10 Identities	✓	✓			✓	
11-100 identities	✓	Fee			Fee	
101- 1000	✓	Fee			Fee	
1001- infinite	✓	Fee			Fee	
Administration Rights within own Organization	✓	✓			✓	
Act on behalf	✓	✓			✓	
Appoint "contractor" to act on behalf	✓	✓	✓	✓	✓	
Management Portal + REST API	✓	✓			✓	

Document ID
0006

Appendix to
0005

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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* Case-by-case						
** Based on appendix 2 in Consortium Agreement						
*** Only identities, no services						

Support

Navelink provides access to its Frontdesk for Administrative support in general.

The Frontdesk provides support during Ordinary office hours, CET, Business Days.

Starting from the Actual Start Date, and subject to payment of fees (if any) for the Service, Navelink provides access to its Frontdesk for Technical support in accordance with for respective environment included in agreed enrolment level.

Starting from the Actual Start Date, and subject to payment of fees (if any) for the Service, Navelink provides access to its Incident support in accordance with respective environment included in agreed enrolment level. Incident support request is available 24/7.

Response and resolution to applicable support are provided during Ordinary office hours, CET.

Navelink offers additional support at additional charge according to the pricelist in force at the time for request for support.

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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Full operational enrolment

Full operational enrolment is recommended for those organizations that intend to both be operational service providers and technical service producers. Full operational enrolment gives access to all environments.

Environments

Access to the following environments are included

- User with administrator (read/write) access to OPERATIONAL environment
- User with administrator (read/write) access to TEST environment
- User with administrator (read/write) access to DEV environment

Each environment is accessible through

- User login to Management Portal
- REST API (OIDC and X.509) to IR and SR

Identities and Identity Registry

The enrolled organization have a responsibility to actively assist in keeping all information correct in Identity Registry.

The Identity Registry is handled according to GDPR. Personal data, if any, may only be created to the limited categories consisting of name, corporate/organization's email or corporate/organization's phone number. When personal data is included the enrolled organization is the data controller and Navelink is the data processor. As data controller it is the organization's responsibility that data is processed in accordance with applicable legislation.

When enrolling up to 10 identities per environment is included.

More identities can be registered with additional fee in steps.

- 11-100
- 101-1000
- 1000+

Organization identity

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Title				
Sub-appendix 1:1 to Service Agreement, Enrolment level specification				
Issued by	Unit	Date	Issue	Project number
Governance Office		2020-03-31	1.1	N/A
Approved by		Classification		
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When enrolled, the organization is created and given a unique MRN identity in Identity Registry.

User identity

Three (3) administration users is included in each environment when enrolling. These accounts can then be used to create further entities, except User Administrators, within the own organization in each environment. Additional administration accounts can be requested on My Pages.

One of the administrator accounts will be appointed as Organizational Administrator.

The User Administrator can create additional regular users.

The User Administrator can update and delete regular users.

Each User identity is given a unique MRN identity.

Vessel identity

The administrator user can create, update and delete Vessel identities.

Each Vessel identity is given a unique MRN identity.

OBS! The intention is that a ship operator or ship owner enrolls and registers its ships. A technical organization then connects services to the vessel. The Registry Administrator reserve the right to monitor and provide feedback on relationship between organization and vessel.

Device identity

The administrator user can create, update and delete Device identities.

Each Device identity is given a unique MRN identity.

Service identity

The administrator user can create, update and delete Service identities.

Each Service identity is given a unique MRN identity.

NAVELINK	*Document ID* 0006		
	Appendix to 0005		

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by Governance Office	*Unit*	*Date* 2020-03-31	*Issue* 1.1	*Project number* N/A
Approved by Anders Wendel, Head of Navelink		*Classification* Consortium Unclassified Released Public		

OBS! A Service identity is also automatically created when registering a service through Service Registry.

Certificates

The administrator user can issue certificate for any identity.

The administrator user can revoke certificate for any identity.

The administrator user is responsible for setting correct valid times in certificates and to renewing certificate.

Services and Service Registry

The enrolled organization have a responsibility to actively assist in keeping all information correct.

Service Registry is handled according to GDPR. Personal information is strongly recommended not to add in Service Registry since information in Service Registry is publically available to read. If personal data is included it may only be created to the limited categories consisting of name, corporate/organization's email or corporate/organization's phone number. When personal data is included the enrolled organization is the data controller and Navelink is the data processor. As data controller it is the organization's responsibility that data is processed in accordance with applicable legislation.

Each service registered is automatically given a corresponding identity in Identity Registry, including a unique MRN identity.

The administrator user can create, update and delete Services.

The service status attribute in OPERATIONAL environment cannot be set to release by the organization itself. This need to be requested through My Pages and includes a test and approval procedure. The rationale is to maintain high trust and confidence of services registered as released for operational use. The enrolled organization is responsible for the actual result from the registered service.

Service Producer and Service Provider

The enrolled organization can act as both technical Service Producer and operational Service Provider.

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Title				
Sub-appendix 1:1 to Service Agreement, Enrolment level specification				
Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A
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Service Specification

The enrolled organization can register Service Specifications.

Service Technical Design

The enrolled organization can register Service Technical Designs.

Service Instance (and implementation)

The enrolled organization can register Service Instances.

Link between Service Instance and Vessel

The administrator user can create link between the service instance and a Vessel identity within own organization.

Other

My Pages

Full operational enrolment includes login to My Pages where documents, links and support is given. Changes of organizational information and administration accounts are also requested here.

The user account in OPERATIONAL environment is used for My Pages.

The user defined as Organization Administrator have additional information regarding the enrolment in My Pages.

Renewal of the enrolment need to be done yearly.

Developer Forum

Full operational enrolment includes full access to Development Forum documents and meetings.

Document ID		
0006		
Appendix to		
0005		

Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

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Limited operational enrolment

Limited operational enrolment are recommended for those organizations that intend to acts mainly as operational service provider, and not technical service producer. The technical service producer need to be enrolled with full operational enrolment or service development enrolment.

Environments

Access to the following environments are included

- User with read access to OPERATIONAL environment
- User with read access to TEST environment
- Create and update in OPERATIONAL and TEST is done through Request Forms on My Pages

Identities and Identity Registry

The enrolled organization have a responsibility to actively assist in keeping all information correct in Identity Registry.

The Identity Registry is handled according to GDPR. Personal data, if any, may only be created to the limited categories consisting of name, corporate/organization's email or corporate/organization's phone number. When personal data is included the enrolled organization is the data controller and Navelink is the data processor. As data controller it is the organization's responsibility that data is processed in accordance with applicable legislation.

When enrolling up to 10 identities per environment is included.

More identities can be registered with additional cost in following ranges.

- 11-100
- 101-1000
- 1000+

Organization identity

When enrolled, the organization is created and given a unique MRN identity in Identity Registry.

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Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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User identity

Only regular user is included.

One account will be created as Organizational Administrator for My Pages.

New identities need to be requested through My Pages.

Vessel identity

Vessel identity need to be requested through My Pages.

Each Vessel identity is given a unique MRN identity.

OBS! The intention is that a ship operator or ship owner enrolls and registers its ships. A technical organization then connects services to the vessel. The Registry Administrator reserve the right to monitor and provide feedback on relationship between organization and vessel.

Device identity

Device identity need to be requested through My Pages.

Each Device identity is given a unique MRN identity.

Service identity

Service identity need to be requested through My Pages.

Each Service identity is given a unique MRN identity.

OBS! A Service identity is also automatically created when registering a service through Service Registry.

Certificates

Certificate need to be requested through My Pages.

Services and Service Registry

Document ID	
0006	
Appendix to	
0005	

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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The enrolled organization have a responsibility to actively assist in keeping all information correct.

The Service Registry is handled according to GDPR. Personal information is strongly recommended not to add in Service Registry since information in Service Registry is publically available to read. If personal data is included it may only be created to the limited categories consisting of name, corporate/organization's email or corporate/organization's phone number. When personal data is included the enrolled organization is the data controller and Navelink is the data processor. As data controller it is the organization's responsibility that data is processed in accordance with applicable legislation.

Each service registered is automatically given a corresponding identity in Identity Registry, including a unique MRN identity.

The administrator user can create, update and delete Services.

The service status attribute in OPERATIONAL environment cannot be set to release by the organization itself. This need to be requested through My Pages and includes a test and approval procedure. The rationale is to maintain high trust and confidence of services registered as released for operational use. The enrolled organization is responsible for the actual result from the registered service.

Service Producer and Service Provider

The enrolled organization can act as operational Service Provider.

Service Specification

The enrolled organization cannot register Service Specifications.

Service Technical Design

The enrolled organization cannot register Service Technical Designs.

Service Instance (and implementation)

The enrolled organization can register Service Instances through My Pages.

Link between Service Instance and Vessel

Document ID		
0006		
Appendix to		
0005		

Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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The administrator user can request link between the service instance and a Vessel identity within own organization.

Other

My Pages

Limited operational enrolment includes login to My Pages where documents, links and support is given. The user account in OPERATIONAL environment is used for My Pages.

The user defined as Organization Administrator have additional information regarding the enrolment in My Pages.

Renewal of the enrolment need to be done yearly.

Developer Forum

Limited operational enrolment does not include access to Development Forum.

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Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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Minimal operational enrolment

Minimal operational enrolment is recommended for those organizations that intend to acts as operational service provider and only need authentication functionality.

Environments

Access to the following environments are included

- User with read access to OPERATIONAL environment
- User with read access to TEST environment
- Create and update in OPERATIONAL and TEST is done through Request Forms on My Pages

Identities and Identity Registry

The enrolled organization have a responsibility to actively assist in keeping all information correct in Identity Registry.

The Identity Registry is handled according to GDPR. Personal data, if any, may only be created to the limited categories consisting of name, corporate/organization's email or corporate/organization's phone number. When personal data is included the enrolled organization is the data controller and Navelink is the data processor. As data controller it is the organization's responsibility that data is processed in accordance with applicable legislation.

When enrolling, up to 10 identities per environment is included.

More identities can be registered with additional cost in following ranges.

- 11-100
- 101-1000
- 1000+

Organization identity

When enrolled, the organization is created and given a unique MRN identity in Identity Registry.

User identity

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Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

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Only regular user is included.

One account will be created as Organizational Administrator for My Pages.

New identities need to be requested through My Pages.

Vessel identity

Vessel identity need to be requested through My Pages.

Each Vessel identity is given a unique MRN identity.

OBS! The intention is that a ship operator or ship owner enrolls and registers its ships. A technical organization then connects services to the vessel. The Registry Administrator reserve the right to monitor and ask questions regarding relationship between organization and vessel.

Device identity

Device identity need to be requested through My Pages.

Each Device identity is given a unique MRN identity.

Service identity

Service identity need to be requested through My Pages.

Each Service identity is given a unique MRN identity.

OBS! A Service identity is also automatically created when registering a service through Service Registry.

Certificates

Certificate need to be requested through My Pages.

Services and Service Registry

No access to Service Registry. If services needs to be registered, the organization is advised to enroll with Full or Limited Enrolment.

Document ID 0006	
Appendix to 0005	

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by Governance Office	*Unit*	*Date* 2020-03-31	*Issue* 1.1	*Project number* N/A
Approved by Anders Wendel, Head of Navelink		*Classification* Consortium Unclassified Released Public		

Other

My Pages

Minimal operational enrolment includes login to My Pages where documents, links and support is given. The user account in OPERATIONAL environment is used for My Pages.

The user defined as Organization Administrator have additional information regarding the enrolment in My Pages.

Renewal of the enrolment need to be done yearly.

Developer Forum

Minimal operational enrolment does not include access to Development Forum.

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Title				
Sub-appendix 1:1 to Service Agreement, Enrolment level specification				

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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Service development enrolment

Service development enrolment is recommended for those organizations that intend to act only as technical service producers. The organization can act as technical service producer for full or limited operationally enrolled organizations.

Environments

Access to the following environments are included

- User with administrator (read/write) access to TEST environment
- User with administrator (read/write) access to DEV environment
- User with read access to OPERATIONAL environment
- Organization enrolled only for Service development is not intended to create entities in OPERATIONAL. If that is necessary, the organization should enroll with Limited or Full Operational Enrolment.

Each environment is accessible through

- User login to Management Portal
- REST API (OIDC and X.509) to IR and SR

Identities and Identity Registry

Organization identity

When enrolled, the organization is created and given a unique MRN identity in Identity Registry.

User identity

Three (3) administration users is included in each environment when enrolling. These accounts can then be used to create further entities, except User Administrators, within the own organization in each environment. Additional administration accounts can be requested on My Pages.

One of the administrator accounts will be appointed as Organizational Administrator.

The User Administrator can create additional regular users.

The User Administrator can update and delete regular users.

Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
Anders Wendel, Head of Navelink	Consortium Unclassified Released Public

Each User identity is given a unique MRN identity.

Vessel identity

The administrator user can create, update and delete Vessel identities.

Each Vessel identity is given a unique MRN identity.

Device identity

The administrator user can create, update and delete Device identities.

Each Device identity is given a unique MRN identity.

Service identity

The administrator user can create, update and delete Service identities.

Each Service identity is given a unique MRN identity.

OBS! A Service identity is also automatically created when registering a service through Service Registry.

Certificates

The administrator user can issue certificate for any identity.

The administrator user can revoke certificate for any identity.

The administrator user is responsible for setting correct valid times in certificates and to renewing certificate.

Services and Service Registry

Title				
Sub-appendix 1:1 to Service Agreement, Enrolment level specification				
Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A
Approved by		*Classification*		
Anders Wendel, Head of Navelink		Consortium Unclassified Released Public		

The enrolled organization have a responsibility to actively assist in keeping all information correct in the Service Registry.

Service Registry is handled according to GDPR. Personal information is strongly recommended not to not add in Service Registry since information in Service Registry is publically available to read. If personal data is included it may only be created to the limited categories consisting of name, corporate/organization's email or corporate/organization's phone number. When personal data is included the enrolled organization is the data controller and Navelink is the data processor. As data controller it is the organization's responsibility that data is processed in accordance with applicable legislation.

Each service registered is automatically given a corresponding identity in Identity Registry, including a unique MRN identity.

The administrator user can create, update and delete Services.

Test and approval of Services can be requested through My Pages. This is mandatory before releasing a service instance, or use a service implementation, in OPERATIONAL environment.

Service Producer and Service Provider

The enrolled organization can act as technical Service Producer. Hence to act as Service Provider (operational provider in OPERATIONAL environment) the organization need to be enrolled as Full, Limited or Minimal.

Service Specification

The enrolled organization can register Service Specifications.

Service Technical Design

The enrolled organization can register Service Technical Designs.

Service Instance (and implementation)

The enrolled organization can register Service Instances.

Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by	*Unit*	*Date*	*Issue*	*Project number*
Governance Office		2020-03-31	1.1	N/A

Approved by	*Classification*
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Link between Service Instance and Vessel

The administrator user can create link between the service instance and a Vessel identity within own organization.

Other

My Pages

Service development enrolment includes login to My Pages where documents, links and support is given.

The user account in OPERATIONAL environment is used for My Pages.

Renewal of the enrolment need to be done yearly.

The user defined as Organization Administrator have additional information regarding the enrolment in My Pages.

Developer Forum

Service development enrolment includes full access to Development Forum documents and meetings.

Document ID 0006		
Appendix to 0005		

Title
Sub-appendix 1:1 to Service Agreement, Enrolment level specification

Issued by Governance Office	*Unit*	*Date* 2020-03-31	*Issue* 1.1	*Project number* N/A
Approved by Anders Wendel, Head of Navelink		*Classification* Consortium Unclassified Released Public		

Environments

The infrastructure contains three different environments with slightly different purposes.

OPERATIONAL

The OPERATIONAL (also called OPS) environment is the productive environment where all actual users and services are registered. This environment shall be kept as clean as possible from tests and developments. The entities (users, services etc.) registered here shall be considered trusted and checked during vetting procedures and monitoring procedures. The technical service level is high on this environment. The Registry Administrator have the rights to monitor the registry content and propose changes if necessary.

TEST

The TEST (also called Test & Verification) environment is mainly for common integration tests and as reference environment. The infrastructure functionality and version is the same as in OPERATIONAL, except during a transition period where the new release of the infrastructure is available for tests during a certain period before installed on OPERATIONAL.

DEVELOPMENT

The DEV (Development) environment is mainly for closed service development (or other development where the infrastructure services are used). The infrastructure functionality is the same as in TEST and OPERATIONAL, but the registered services are not visible to other actors outside your own organization. During a transition period a new release of the infrastructure is available for development and test before installed on TEST.

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Title				
Sub-appendix 1:1 to Service Agreement, Enrolment level specification				

Issued by	Unit	Date	Issue	Project number
Governance Office		2020-03-31	1.1	N/A

Approved by	Classification
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Terms described

ID Authenticator

The ID Authenticator is responsible for the vetting procedure of an identity within the organization, such as ensure that the claimed identity of a vessel actually is the real identity of the ship.

Organizational Administrator

Contact person representing the organization, often the commercial contact point.

Service Consumer

A Service Consumer is the operational consumer of a service. Often a Service Provider is both a provider and consumer of services.

Service Host

A Service Host owns the internet domain where a service instance is deployed on behalf of a Service Provider. It's often the Service Producer that hosts the service instance.

Service Implementation

Service implemented according to a specific technical design and with specific programming language.

Service Instance

One service implementation may be deployed at several places by same or different service providers; each such deployment represents a different service instance, being accessible via different URLs and different certificates.

Service Producer

Organization acting as technical producer of service specification, technical design, implementation or instance.

Service Provider

Title

Sub-appendix 1:1 to Service Agreement, Enrolment level specification

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Organization acting as operational provider of service instance.

A Service Provider is the operational actor providing operational benefit to its customer.

Service Specification

Describes one dedicated service at logical level. The Service Specification is technology-agnostic. The Service Specification includes (but is not limited to) a description of the Service Interfaces and Service Operations with their data payload. The data payload description may be formally defined by a Service Data Model.

Service Technical Design

Service defined for specific technology, such as REST, SOAP

User

Regular user within the organization.

User Administrator

Contact person representing the organization as administrator in Identity and Service Registry, often the technical contact point.

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