

Title

Navelink Service Instance Registration Guidelines

<i>Issued by</i>	<i>Unit</i>	<i>Date</i>	<i>Issue</i>	<i>Project number</i>
Conceptual team	N/A	2020-10-07	V1	N/A

Approved by

Anders Wendel

Classification

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CONTENT

Navelink Service Instance Registration Guidelines.....	1
General guidelines.....	2
Guidelines for ship.....	4
Guidelines for shore centre and VTS.....	6
Guidelines for Port.....	7
Service Type enumeration.....	8
As XML Schema (simpleType).....	10

Navelink Service Instance Registration Guidelines

This document describe guidelines and recommendations for service registration in Navelink Service Registry. The guidelines is used both before and during registration of service instances, but also in the monitoring of Service Registry content within Navelink.

This guideline complements the formal description for service instance registration described in IALA G1128 and the corresponding XML Schema for Service Instance. The XML Schemas can be found in the How-to in all management portals.

This document contains;

- Generic guidelines for any service instance registration
- Specific guidelines for Voyage Information Service instance (inherited from STM Validation Project)

The document also includes an enumeration for Service Type used for service instances based on VIS Technical Design, but this enumeration can also be used for any service.

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General guidelines

This section describes general guidelines and recommendations for any type of service instance.

The general recommended is to **not** use åäö or other national characters. National characters is not searchable (at least not easily searchable).

Name

The name of the service shall reflect the service provided.

ID

MRN identity of the service shall reflect the service provided, e.g. include shortened name of the service.

Keywords

Keyword shall contain searchable words typical for the service provided.

The keyword list is recommended to reflect type of service but can also contain payload types possible to exchange by the service instance.

Description

Short operational description of the service provided

ServiceType

The service type shall reflect the operational service type provided according to defined types in paragraph Service Type. If type not yet defined, a proposed type will be reviewed and added when accepted.

IMO

IMO with 7 digits or empty (blank)

MMSI

MMSI with 9 digits or empty (blank)

Geometry

Service coverage in GeoJSON or WKT

Empty (blank) means "The World"

UnLocode

5 characters, no space, capital letters or empty (blank)

URL

The base URL for the service without the REST method. If versioning of API is used, add the version here in the URL. No trailing slash.

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Provider contact

Functional email to operational provider of the content in the service

Producer contact

Functional email to technical producer (implementer) of the service interface

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Guidelines for ship

This section describes guidelines and recommendations for registration of service instance for a ship. The guidelines

Name

Name of the ship

Recommended to correspond to the AIS name of the ship.

Recommended to **not** use åäö or other national characters in the name.

ID

The MRN identity for the ship's service instance is recommended to be the MMSI or IMO number. It is possible to include further sub-namespaces after <org>.

e.g. urn:mrn:stm:service:instance:<org>:vis:imo:nnnnnnn

e.g. urn:mrn:stm:service:instance:<org>:vis:mmsi:nnnnnnnnn

Keywords

The keyword list is recommended to reflect type of service but can also contain payload types possible to exchange by the service instance

e.g. SHIP,VIS,RTZ,TXT,S124,Voyage Information Service

Description

Short operational description of service provided

ServiceType

Ship Voyage Information

IMO

IMO with 7 digits

Can be blank if no IMO defined for the ship

MMSI

MMSI with 9 digits

Recommended to always be set for a ship.

Geometry

<blank> mean "The World"

Provider contact

Functional email to the ship/ship operator, e.g. officer@ship.se

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Producer contact

Functional email to technical producer (implementer) of the service, e.g.
support@company.se

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Guidelines for shore centre and VTS

Name

Name of the SC/VTS

e.g. Gothenburg SC

Recommended to **not** use åäö or other national characters in the name.**ID**

The MRN identity is recommended to include a shortened name of the shorecenter/VTS. It is possible to include further sub-namespaces after <org>

urn:mrn:stm:service:instance:<org>:vis:sc:<name>

urn:mrn:stm:service:instance:<org>:vis:vts:<name>

Keywords

VTS,SC,VIS,RTZ,TXT,S124,Voyage Information Service, etc

Description

Short operational description of service provided

ServiceType

Enhanced Monitoring

MMSI

MMSI with 9 digits or empty (blank)

Geometry

A shore center/VTS is recommended to always define service coverage as polygon in WKT reflecting the area where service is provided, e.g. VTS Area.

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Guidelines for Port

Name

Name of port

Recommended to **not** use åäö or other national characters in the name.**ID**

e.g. urn:mrn:stm:service:instance:<org>:vis:port:<name>

Keywords

e.g. VIS, RTZ, TXT,S124,Voyage Information Service, etc

Description

Short description of service provided

ServiceType

e.g. Port Call Synchronization

e.g. Inter-Port Synchronization

Geometry

WKT for the port area

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Service Type enumeration

The following list of Service Types (field serviceType) is in use for service instances implementing the Voyage Information Service Technical Design, but can be used for any service instance (by any service design).

Please observe that there is space in the values, hence the value need to be enclosed with apostrophe when used as search criteria.

Value	Definition
Enhanced Monitoring	Dedicated for voyage/route monitoring service, such as VTS or other shore center. Related to IMO MS-1
Evaluation Service	Dedicated to evaluation service
Fleet Office	Dedicated for fleet office
Fleet Operation	Dedicated for fleet operation center service
Hub	Dedicated for service acting as hub for messages, such as EfficientFlow Hub service that forwards incoming route plans to a list of registered services
Inter-Port Synchronization	Dedicated for port to port synchronization
Navigational Warnings	Dedicated for service providing navigational warnings
Pilot	Dedicated for pilots and PPU
Port	
Port Call Synchronization	Dedicated for port call synchronization service
Route Catalogue	Dedicated for route catalogue services, such as pilot routes
Route Optimization	Dedicated for route optimization services
SAR	Dedicated for search and rescue service, such as MRCC
Ship Voyage Information	Dedicated for ships
Winter Navigation	Dedicated for winter navigation service

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Candidates discussed, but not in use today.

Value	Definition
Route Cross-Check	(not in use today) Dedicated for route plan safety check service. Often included in shore center application, but registered as Enhanced Monitoring.
Area Management	(not in use today) Dedicated for area management, such as marine sensitive areas, no-go areas, environmental sensitive areas. Often included in shore center application, but registered as Enhanced Monitoring. Also related to Navigational Warning type of service
Flow Management	(not in use today) Dedicated to flow management services. May be included in shore center application, but registered as Enhanced Monitoring or Hub (as in the case for EfficientFlow Hub).
UKCM	(not in use today) Defined as use Case in S-421
Charts	(not in use today) Defined as use Case in S-421

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As XML Schema (simpleType)

```
<simpleType name="ServiceType" final="restriction">
<restriction base="string">
  <enumeration value="Enhanced Monitoring"/>
  <enumeration value="Evaluation Service"/>
  <enumeration value="Fleet Office"/>
  <enumeration value="Fleet Operation"/>
  <enumeration value="Hub"/>
  <enumeration value="Inter-Port Synchronization"/>
  <enumeration value="Navigational Warnings"/>
  <enumeration value="Pilot"/>
  <enumeration value="Port"/>
  <enumeration value="Port Call Synchronization"/>
  <enumeration value="Route Catalogue"/>
  <enumeration value="Route Optimization"/>
  <enumeration value="SAR"/>
  <enumeration value="Ship Voyage Information"/>
  <enumeration value="Winter Navigation"/>
  <enumeration value="Route Cross-Check"/>
  <enumeration value="Area Management"/>
  <enumeration value="Flow Management"/>
  <enumeration value="UKCM"/>
  <enumeration value="Charts"/>
</restriction>
</simpleType>
```