Appendix C: SERVICE INTERFACE PROFILE TEMPLATE

Based on analysis of the “Technical Service Data Sheet for Notification Broker v.002”, [NC3A RD-3139] and “RD-3139 Publish/Subscribe Service Interface Profile Proposal v.1.0” [DEU SDS] the following document structure is proposed for the consolidated Profile.

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North Atlantic Treaty Organization (NATO)

Mission

To define a template based on the NCI Agency and IABG proposal for a standard profiling document.
1. Keywords

*Include relevant keywords*

Description: Should contain relevant names of the [C3 Taxonomy] services plus other relevant keywords like the names of profiled standards.
2. Metadata

*Provide metadata based on the NATO Discovery Metadata Specification [NCMS]*

Metadata of the document, that should be based on the NATO Discovery Metadata Specification [NCMS] and MUST include: Security classification, Service name (title), Version, Unique identifier, Date, Creator, Subject, Description, Relation with other SIPs. The unique identifier MUST encode a version number and C3 Board needs to decide on a namespace. It needs to be decided whether URN or URL should be used to format the identifier.

2.1. Security
   *Include security classification*

2.2. Title
   *Include service name (title)*

2.3. Version
   *Include service version*

2.4. Identifier
   *Include service unique identifier*

2.5. Date
   *Include the date*

2.6. Creator
   *Name the creator*

2.7. Subject
   *Name the subject*

2.8. Description
   *Describe the SIP*
2.9. Relationships

Document the relationships with other SIPs
3. Abstract

*Provide a description of the service being profiled*

General description of the service being profiled.
4. Changes

List the changes made to the previous version

Record of Changes and Amendments — The list of changes should include version number, date, originator and main changes.

4.1. Version Number

Include the version number

4.2. Date

Include the date

4.3. Originator

Name the originator

The originator should identify an organisation/Nation (not a person).

4.4. Changes

Explain the main changes
5. Table of Contents

Include a table of contents
6. Table of Figures

Include a table of figures
7. Overview

*Provide an overview about the key administrative information and the goals/nongoals of the service*

Should provide an overview about the key administrative information and the goals/nongoals of the service.
8. Purpose

Provide a set of specifications, along with clarifications, refinements, interpretations and amplifications of those specifications which promote interoperability.

Purpose of the Document Same for all SIPs. Does not contain a service specific description. “Provide a set of specifications, along with clarifications, refinements, interpretations and amplifications of those specifications which promote interoperability.”
9. Audience

Document the envisioned audience

**Stakeholder(s)**

**Project Managers**: procuring Bi-Strategic Command (Bi-SC) or FMN related systems

**Architects**: of service consumers and providers

**Developers**: of service consumers and providers

**Coalition Partners**: whose services may need to interact with FMN Services

**Systems Integrators**: delivering systems into the NATO environment

The envisioned audience consists of:
10. Notational Conventions

Describe the notational conventions for the document

Describes the notational conventions for this document: italics Syntax derived from underpinning standards should use the Courier font.
11. Taxonomy Allocation

Document the position and description of the service within the [C3 Taxonomy]

Provides information on the position and description of the service within the [C3 Taxonomy].
12. Terminology/Definitions

_Briefly describe each term used in the document_

Introducing service specific terminology used in the document with short descriptions for every term.
13. Namespaces

Include a table with the prefix and the namespaces used in the document.

Table with the prefix and the namespaces used in the document.
14. Goals

Document the goals of the service profile

Service specific goals of the profile. They will tell which aspects of the service will be covered by the profile, e.g. identify specific protocols, data structures, security mechanisms etc.

14.1. Protocols
    Identify specific protocols

14.2. Data
    Identify data structures

14.3. Security
    Identify security mechanisms
15. Non-Goals

*Explain why some potentially relevant goals are not being addressed*

An explanation for not addressing the listed non-goals potentially relevant in a given context. This section may contain references to external documents dealing with the identified issues (e.g. security mechanisms are described in different SIP/document).
16. References

Document references to other specifications

Normative and non-normative references to external specifications.
17. Service Relationships

*Document relationships to other services*

Relationships to other services in the [C3 Taxonomy].
18. Constraints

*Document preconditions to run the service*

Preconditions to run the service; when to use and when not to use the service. "Service is not intended to work with encrypted messages".
19. Background

(non-normative) Descriptive part of the document.

19.1. Operational Requirements

*Provide an overview of where and in which environment the service will be deployed*

Description of the Operational Requirements — Description of the operational background of the service to give an overview where and in which environment the service will be deployed.

19.2. Service

*Describe the functionality and intended use of the service*

Description of the Service — Purpose of the service, its functionality and intended use. Which potential issues can be solved with this service?

19.3. Interactions

*Describe typical service interactions*

Typical Service Interactions — Most typical interactions the service can take part in. Should provide better understanding and potential application of a service and its context. This part is non-normative and will not be exhaustive (i.e. is not intended to illustrate all possible interactions). Interactions can be illustrated using UML interaction, sequence, use case, and/or state diagrams.
20. Service Interface Specification

(normative) Prescriptive part of the document (not repeating the specification).

20.1. Interface Overview

*Briefly describe the interface*

Introduction with a short description (containing operations, etc.) of the interface. Short overview table with all operations identifying which ones are defined by the SIP as mandatory, recommended or optional. Any extensions to underlying services (e.g. new operations) must be clearly marked. Specific example: Response “service unavailable” if operations are not implemented/available.

20.2. Technical Requirements

*Describe the technical requirements*

Description of the specific technical requirements. Generic non-functional requirements.

20.3. Operations

*Describe mandatory, recommended and optional operations*

Detailed description of mandatory, recommended and optional operations: input, output, faults, sequence diagram if necessary. Clearly mark extensions to the underlying referenced standards. Any non-standard behaviour must be explicitly requested and described, including specific operations or parameters to initiate it. Specific examples: Explicitly request non-standard filter mode; explicitly request particular transport mode. - Internal faults could be handled as an unknown error. Additional information (internal error code) can be ignored by the user.

20.4. Errors

*Describe errors and how the recipient is informed about them*

(Optional Section) Description of the specific errors and how the recipient is informed about them.
21. References

*Cite references*

Contains document references.
22. Appendices

*Document service-specific artefacts*

(Optional) Service specific artefacts (non-normative and normative), e.g. WSDLs / Schemas for specific extensions

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**Administrative Information**

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