

Appendix C: SERVICE INTERFACE PROFILE TEMPLATE

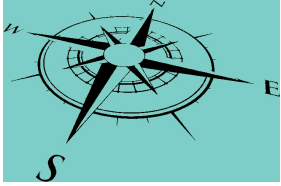
Based on analysis of the “Technical Service Data Sheet for Notification Broker v.002”, [NC3A RD-3139] and “RD-3139 Publish/Subscribe Service Interface Profile Proposal v.1.0” [DEU SDS] the following document structure is proposed for the consolidated Profile.

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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

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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.

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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

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3. Abstract

Provide a description of the service being profiled

General description of the service being profiled.

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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

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6. Table of Figures

Include a table of figures

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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.

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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."

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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

The envisioned audience consists of:

Coalition Partners :

whose services may need to interact with FMN Services

Systems Integrators :

delivering systems into the NATO environment

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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.

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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].

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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.

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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.

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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

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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).

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16. References

Document references to other specifications

Normative and non-normative references to external specifications.

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17. Service Relationships

Document relationships to other services

Relationships to other services in the [C3 Taxonomy].

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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".

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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.

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22. Appendices

Document service-specific artefacts

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

Administrative Information

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