

# **NATO STANDARD**

## **ADatP-34**

### **NATO Interoperability Standards and Profiles**

#### **Volume 1**

#### **Introduction**

#### **Edition N Version 1**

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## **NATO LETTER OF PROMULGATION**

The enclosed Allied Data Publication ADatP-34, Edition N, Version 1 NATO Interoperability Standards and Profiles, which has been approved by the nations in the C3B, is promulgated herewith. The agreement of nations to use this publication is recorded in STANAG 5524.

ADatP-34, Edition N, Version 1 is effective on receipt.

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This publication shall be handled in accordance with C-M(2002)60.

Zoltán GULYÁS  
Brigadier General, HUNAF  
Director, NATO Standardization Office

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**RESERVED FOR NATIONAL LETTER OF PROMULGATION**

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## RECORD OF SPECIFIC RESERVATIONS

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Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.

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## CHAPTER 1. INTRODUCTION

001. The NATO Interoperability Standards and Profiles (NISP) is developed by the NATO Consultation, Command and Control (C3) Board Interoperability Profiles Capability Team (IP CaT).

002. The NISP will be made available to the general public as ADatP-34(M) when approved by the C3 Board.

003. The included interoperability standards and profiles (Volume 2) are **mandatory** for use in NATO common funded Communications and Information Systems (CIS). Volume 3 contains **candidate** standards and profiles.

004. In case of conflict between any adopted non-NATO<sup>1</sup> standard and relevant NATO standard, the definition of the latter prevails.

005. In the NISP the keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" are to be interpreted as described in [IETF RFC 2119].

**Table 1.1. Abbreviations**

Abbreviation	Full Text
ABB	Architecture Building Block
ACaT	Architecture Capability Team
ACP	Allied Communications Publication
AdatP-34	Allied Data Publication - Cover publication for the NISP
BSP	Basic Standards Profile
C3	Consultation, Command and Control
CCEB	Combined Communications Electronic Board (military communications-electronics organization established among five nations: Australia, Canada, New Zealand, United Kingdom, and the United States)
CESF	Core Enterprise Services Framework
COI	Community of Interest
CIAB (WG)	Coalition Interoperability Assurance and Validation (Working Group)
CIS	Communication and Information Systems

<sup>1</sup>ISO or other recognized non-NATO standards organization

<b>Abbreviation</b>	<b>Full Text</b>
CWIX	Coalition Warrior Interoperability eXploration, eXperimentation, eXamination eXercise
DOTMLPFI	Doctrine, Organization, Training, Materiel, Leadership, Personnel, Facilities and Interoperability
EAPC	Euro-Atlantic Partnership Council
FMN	Federated Mission Networking
IOP	Interoperability Point
IP CaT	Interoperability Profiles Capability Team
MIP	Multilateral Interoperability Programme
NAF	NATO Architecture Framework
NDPP	NATO Defence Planning Process
NISP	NATO Interoperability Standards and Profiles
NIST	National Institute of Standards and Technology
NGO	Non governmental organization
RFC	Request for Change
SDS	Service Data Sheet
SIOP	Service Interoperability Point  Definition is to be found in EAPC(AC/322)D (2006)0002-REV 1): SIOP is a reference point within an architecture where one or more service interfaces are physically or logically instantiated to allow systems delivering the same service using different protocols to interoperate.  Note: A service interoperability point serves as the focal point for service interoperability between interconnected systems, and may be logically located at any level within the components, and its detailed technical specification is contained within a service interface profile.
SIP	Service Interface Profile
SME	Subject Matter Expert

Abbreviation	Full Text
SOA	Service Oriented Architecture
STANAG	A NATO standardization document that specifies the agreement of member nations to implement a standard, in whole or in part, with or without reservation, in order to meet an interoperability requirement. Notes: A NATO standardization agreement is distinct from the standard(s) it covers.
TACOMS	Tactical Communication Programme

## 1.1. PURPOSE OF THE NISP

006. NISP gives guidelines to capability planners, programme managers and test managers for NATO common funded systems in the short or mid-term timeframes.

007. The NISP prescribes the necessary technical standards and profiles to achieve interoperability of Communications and Information Systems in support of NATO's missions and operations. In accordance with the Alliance C3 Strategy (ref. C-M(2014)0016) all NATO Enterprise (ref. C-M(2014)0061) entities shall adhere to the NISP mandatory standards and profiles in volume 2.

## 1.2. INTENDED AUDIENCE

008. The intended audience of the NISP are all stakeholders in the NATO Enterprise, and Allied and Partner nations involved in development, implementation, lifecycle management, and transformation to a federated environment.

009. There are specific viewpoints that are mapped to the NISP structure. NISP gives guidelines to:

- capability planners involved in NDPP and NATO led initiatives
- programme managers for building NATO common funded systems
- test managers for their respective test events (such as CWIX, CIAV, etc.)
- national planning and programme managers for their national initiatives

010. Specific NATO or national views to the NISP based on data export to external planning and management systems will be possible upon delivery of an updated version of the NISP Exchange Specification.

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## CHAPTER 2. BASIC CONCEPTS

011. This chapter gives an overview to understand the data in volume 2 and volume 3. NISP does not differentiate between the usage of NATO and non- NATO standards but always strives to select the most appropriate and up to date. The classification (Mandatory or Candidate) of any standard depends on its location in the NISP, Volume 2 or Volume 3, respectively.

### 2.1. STANDARDS

012. The NISP is composed of non-NATO and NATO Standards. While the first ones are adopted by NATO through the NISP. The second ones are to be considered as normative references.

013. Standards (NATO and non-NATO) are defined and managed in their life cycle by the developing standardization bodies with their own timetable. NATO standards are identified in the NISP by their covering document (STANAG number). They can be in the life cycle status of study/in ratification (no yet NATO approved/expected), promulgated (valid) and superseded/obsolete. A non-NATO standard may have different life cycle status such as emerging, mature, fading, or obsolete. Different standardization bodies may use their own lifecycle status definitions. NISP takes lifecycle status of standards into account, but does not copy them into the NISP database. To inquire about the current status of NATO standards, please visit the NATO Standardization Document Database (NSDD) hosted on the NATO Standardization Organization (NSO) Website. Superseded/obsolete NATO and non-NATO standards may be included in the NISP for maintenance purpose.

014. NISP allow references to either a NATO Standard or the covering document if it exists. However, it is recommended that NATO organizations and nations reference a NATO Standard and NOT the covering document for inclusion in the NISP. IP CaT will subsequently add the covering document as well, but only for reference purposes.

### 2.2. INTEROPERABILITY PROFILES

015. Profiles define the specific use of standards at a service interoperability point (SIOP) in a given context. Profiles support prerequisites for programmes or projects and enable interoperability implementation and testing.

016. Interoperability Profiles provide combinations of standards and (sub)profiles for different CIS and identify essential profile elements including:

- Capability Requirements and other NAF architectural views
- Characteristic protocols
- Implementation options

- Technical standards
- Service Interoperability Points, and
- The relationship with other profiles such as the system profile to which an application belongs.

017. The NISP now defines the **obligation status** of profiles and standards as "mandatory" or "candidate".

- **Mandatory:** The application of standards or profiles is enforced for NATO common funded systems in planning, implementing and testing. Nations are required to use the NISP for developing capabilities that support NATO's missions (ie. NATO led operations, projects, programs, contracts and other related tasks). Nations are invited to do the same nationally to promote interoperability for federated systems and services.
- **Candidate:** The application of a standard or profile shall only be used for the purpose of testing and programme / project planning. The standard or profile must have progressed to a stage in its life-cycle and is sufficiently mature and is expected to be approved by the standardization body in the foreseeable future. This implies, that from a planning perspective, the respective standard or profile is expected to become mandatory during execution of the programme. A candidate standard or profile should not stay in volume 3 for more than 3 years.

018. Profiles shall be updated if referenced standards change. Profiles are dynamic entities by nature. NATO captures this dynamic situation by updating profiles once a year in the NISP. Profile owners are responsible for the versioning of their profiles. Profile reviews are required every 2 years by their owners to ensure their accuracy and continued relevance.

019. Proposed profiles (and standards) can be accepted as candidates in order to follow their developments and to decide if they can be promoted to mandatory standards and profiles. In some cases proposed standards and profiles can be readily accepted directly as mandatory.

020. Interoperability Profiles can reference other Interoperability Profiles to allow for maximal reuse.

021. Further information and guidance on creation of profiles is available in Appendix A.

## 2.3. BASIC STANDARDS PROFILE

022. Within the NISP, the "*Basic Standards Profile*" specifies the technical, operational, and business standards that are generally applicable in the context of the Alliance and the NATO Enterprise. For a specific context, such as Federated Mission Networking, separate profiles may be defined that apply specifically to that context or related architectures. The standards that are cited may be NATO standards, or other agreed international and open standards.

023. As there is no overarching alliance architecture, each standard is associated with elements of the C3 Taxonomy. A distinction must be made between applicability of a standard, and

conformance to the standard. If a standard is applicable to a given C3 Taxonomy element, any architecture that implements such an element need not be fully conformant with the standard. The degree of conformance may be judged based on the specific context of the project. For example, to facilitate information exchange between C2 and logistics systems it may be sufficient to implement only a subset of concepts as defined in JC3IEDM (STANAG 5525).

024. The “Basic Standards Profile” contains “agreed” as well as “candidate” standards.

## **2.4. CREATING RELATIONSHIPS TO OTHER CONCEPTS AND PLANNING OBJECTS WITHIN NATO**

025. Different initiatives and organizations have developed new concepts to govern developments in the interoperability domain. These concepts have logical relationship to the NISP.

### **2.4.1. Architecture Building Block**

026. An Architecture Building Block (ABB) is a constituent of the architecture model that describes a single aspect of the overall model <sup>1</sup>.

#### **2.4.1.1. Characteristics**

027. ABBs:

- Capture architecture requirements; e.g., business, data, application, and technology requirements
- Direct and guide the development of Solution Building Blocks

#### **2.4.1.2. Specification Content**

028. ABB specifications include the following as a minimum:

- Fundamental functionality and attributes: semantic, unambiguous, including security capability and manageability
- Interfaces: chosen set, supplied
- Interoperability and relationship with other building blocks
- Dependent building blocks with required functionality and named user interfaces
- Map to business/organizational entities and policies

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<sup>1</sup>TOGAF 9.1 Specification

## 2.4.2. FMN Spiral Specifications

029. Federated Mission Networking (FMN) Spiral<sup>2</sup> Specifications encompass "an evolutionary cycle that will raise the level of maturity of federated mission networking capabilities over time".

030. The FMN spiral specification contain the following sections

- architecture
- instructions
- profiles, and
- requirements specifications.

The Mandatory and Candidate FMN Spiral Profiles, in context for FMN Affiliates, are listed in the NISP Volumes 2 and 3.

## 2.4.3. Capability Packages

031. Profiles will be referenced in the NISP for specified NATO Common Funded Systems or Capability Packages and may include descriptions of interfaces to National Systems where appropriate.

## 2.5. CRITERIA FOR SELECTING STANDARDS

032. Any standard(s) listed in Volume 2 of the NISP shall:

- Be already approved by a NATO Standardization Tasking Authority or another non- NATO standards development organization (e.g. ISO, ANSI, ETSI, IEEE, IETF, W3C);
- Have an assigned responsible party within NATO that can provide relevant subject matter expertise;
- Be available in one of the NATO official languages;
- Support C3 Interoperability (including. people, processes and technology) and related NATO common funded Communication and Information Systems (CIS), including their development and operations;
- Enable the NATO Enterprise, NATO Nations and Partner Nations to develop interoperable C3 capabilities that support NATO's missions (i.e. NATO led operations, projects, programs, contracts and other related tasks).

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<sup>2</sup>Annex B TO Volume I - Implementation Overview, NATO FMN Implementation Plan v4.0 dated: 23 September 2014, Terms and Definitions

- Any standard deviating from the criteria listed in the paragraph 4.1., can be recommended by the IP CaT for inclusion in the NISP and can be implemented after the approval of the C3B.

## **2.6. CRITERIA FOR SELECTING NON-NATO STANDARDS**

033. Any Non-NATO standard(s) listed in Volume 2 of NISP should:

- Have implementations from a cross-section of vendors available;
- Be utilized by the broader user community;
- Be developed in a consensus-based way;
- Be free from any legal issues (i.e. intellectual property rights);
- Meet NATO requirements;
- Be easily accessible to vendors;
- Have an open architecture, e.g. extensible for new technological developments,
- Be compatible with other NATO-agreed standards;
- Be stable (mostly recognized by related community/industry) and mature enough in terms of technology;
- Be measurable in terms of its compliance.

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## CHAPTER 3. ORGANIZATION OF THE NISP INFORMATION

034. This chapter gives an overview of the new structure of all three volumes.

### 3.1. NISP STRUCTURE

035. The structure of the NISP is organized to list and categorize the standards and profiles according to their usage in NATO. It contains three volumes:

- **Volume 1** - Introduction: This volume introduces basic concepts, provides the management framework for the configuration control of the NISP and the process for handling Request for Change (RFC). It includes also guidance on development of interoperability profiles.
- **Volume 2** - Agreed Interoperability Standards and Profiles: This volume lists agreed interoperability standards and profiles, mandatory for NATO common funded systems. These should support NATO and National systems today and new systems actually under procurement or specification.
- **Volume 3** - Candidate Interoperability Standards and Profiles: This Volume lists informative references to Standards and Interoperability Profiles, such as drafts of NATO specifications, that may be used as guidance for future programmes.

036. Volume 2 is normative for NATO common funded systems and Volume 3 is informative.

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## CHAPTER 4. INTEROPERABILITY IN SUPPORT OF CAPABILITY PLANNING

037. The following documents form the foundation to understand the embedding of NISP into NDPP and architecture work:

**Table 4.1. NDPP References**

Document	Document Reference
Alliance C3 Strategy Information and Communication Technology to prepare NATO 2020 (20 July 2018)	Alliance C3 Strategy C-M(2018)0037
Alliance C3 Policy (25 April 2016)	C-M(2015)0041-REV2
NATO Defence Planning Process (NDPP)	PO(2016)0655 (INV)

038. The NATO Defence Planning Process (NDPP) is the primary means to identify the required capabilities and promote their timely and coherent development and acquisition by Allies and Partners. It is operationally driven and delivers various products which could support the development and evolution of more detailed C3 architecture and interoperability requirements. The development of NDPP products also benefits from input by the architecture and interoperability communities, especially the NISP, leading to a more coherent development of CIS capabilities for the Alliance.

039. The work on Enterprise, Capability, and programme level architecture will benefit from the NISP by selecting coherent sets of standards for profiles.

040. More information on how the NISP supports the NDPP can be found in Annex B.

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## CHAPTER 5. CONFIGURATION MANAGEMENT

041. The NISP is updated once a year to account for the evolution of standards and profiles.

042. Request for Change (RFC) to the NISP will be processed by the IP CaT, following the process in the graphic below:



**Figure 5.1. RFC Handling Process**

043. The RFC contains all information required for the NISP management by IP CaT; The detailed information about standard or profile is handed over as attachments to this form. A notional RFC form with example information is presented below:

**REQUEST FOR CHANGE PROPOSAL for the NATO  
Interoperability Standards & Profiles**

Example

Date:  ■

Type of Request\*:  ▼

Responsible party\*:  ?

Abstract\*:  ?

Identifier:  ?

Request for change\* [Text, standard, profile]  ▼

Change Description:  
Attach separate text if required

The MC decided that Cyber defence and JISR will be.. Therefore para 6.2 should

Justification and Additional Comments:

Example of responsible party: "type=organization; name='C3B, CAP 1 [TDL CaT]'"  
Example: This RFCP replaces STANAG xxxx ed.1 with ed. 2  
An unambiguous reference to the resource within a given context

Info applicant

Requesting Organisation\*:

Point of Contact\*:

Full Address:

Telephone\*:

Email\*:

Paragraph  ?

**Figure 5.2. RFC Notional Form**

044. The primary point of contact for RFC submission is the IP CaT. RFCs may be submitted to the [IP CaT via the Change web site](#) or via email to [herve.radiguet@act.nato.int](mailto:herve.radiguet@act.nato.int) with attachments.

045. Review of RFCs will be coordinated with the responsible C3 Board substructure organizations where appropriate.

046. The IP CaT reviews the submissions in dialog with national and international bodies. Based on that review, the RFC will be formally processed into the next edition/version of the NISP; or returned to the originator for further details; or rejected. The IP CaT will attempt to address all RFCs submitted by 1 September into the next NISP release. RFCs submitted after this date may be considered for inclusion at the discretion of the IP CaT, or will be processed for the following NISP release.

## 5.1. NISP UPDATE PROCESS

047. The new NISP version is submitted to the C3 Board by end of the year after internal review by the IP CaT. The version under review is a snapshot in time of the status of standards and profiles.

048. The database of standards and profiles maintained by the IP CaT is the definitive source of the current status of standards and profiles.

049. A standard listed in Volume 2 of the NISP shall:

1. be approved already by a NATO Standardization Tasking Authority or another non-NATO standards development organization (e.g. ISO, ANSI, ETSI, IEEE, IETF, W3C),
2. have an assigned responsible party that can provide relevant subject matter expertise,
3. be available in one of the NATO official languages,
4. support C3 Interoperability (incl. people, processes and technology) and related NATO common funded Communication and Information Systems (CIS) including their development and operations, and
5. enable the NATO Enterprise, NATO Nations and partner nations to develop interoperable capabilities that support NATO's missions (ie. NATO led operations, projects, programs, contracts and other related tasks).

050. Deviations from the rules listed above can be recommended by the IP CaT and approved by the C3B.

051. Some key criteria for inclusion of non-NATO standards into Volume 2 are

- Availability of implementations from a cross-section of vendors;
- Usage of implementations by user community;
- Compatibility with other standards;
- Completeness. Does the standard meet the functional requirements?
- Extensibility. Can the standard easily add new technologies when they become available?;
- Stability/maturity. Is the standard based on well understood technology, and has it matured enough to ensure no major changes will occur through further refinements?
- Non-discriminatory. Was the standard developed in a consensus-based way?
- Testability. Conformance metrics. Can the standard be tested to prove compliance?
- Legitimacy. Freedom from legal issues.

## 5.2. NISP PRODUCTS

052. The NISP is published in several formats:

- Documentation in [HTML](#) and [PDF](#) Formats
- Website and searchable [online Database](#)

- Data export in XML format

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## **CHAPTER 6. NATIONAL SYSTEMS INTEROPERABILITY COORDINATION**

053. Coordination of standards and profiles between Nations and NATO are critical for interoperability. As a result of the C3 Board substructure reorganization, participants in IP CaT are subject matter experts (SME) and are no longer national representatives. SME's should therefore coordinate with national and C3 Board representatives to ensure national perspectives are presented to IP CaT. As such, each of the IP CaT SMEs is responsible for:

- Appropriate and timely coordination of standards and profiles with respect to interoperability with national systems;
- Coordination of the SME input including coordination with national SMEs of other C3 Board substructure groups; and
- Providing appropriate technical information and insight based on national market assessment.

054. National level coordination of interoperability technical standards and profiles is the responsibility of the C3 Board. When the latest version of NISP is approved by the C3 Board, it will become the NATO Standard covered by STANAG 5524. This STANAG contains the agreement of the participating nations regarding usage of the mandatory standards and profiles in the NISP.

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## CHAPTER 7. INTEROPERABILITY STANDARDS GUIDANCE

055. The NISP references Standards from different standardization bodies<sup>1</sup>. In the case of a ratified STANAG, NATO standardization procedures apply. The NISP only references these STANAG's without displaying the country-specific reservations. The country-specific reservations can be found in the NATO Standardization Office's NATO Standardization Document Database.

056. The Combined Communications Electronics Board (CCEB) nations will use NISP Volume 2 to publish the interoperability standards for the CCEB under the provisions of the NATO-CCEB List of Understandings (LoU)<sup>2</sup>.

057. The NISP organizes the standards using the structure of baseline 3.1 of NATO's C3 Taxonomy, as endorsed by the NATO C3 Board per AC/322-D(2019)0034-AS1(INV) on "C3 Taxonomy Baseline 3.1" dated 26 August 2019. A graphical representation of this taxonomy is given in the following figure and a description of it can be obtained at: [https://tide.act.nato.int/tidepedia/index.php/C3\\_Taxonomy](https://tide.act.nato.int/tidepedia/index.php/C3_Taxonomy). Currently, the standards only address a subset of the services in the taxonomy, mainly services in the group Technical Services. For some standards it is indicated that an appropriate mapping to the C3 Taxonomy could not yet be made.

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<sup>1</sup>In case of conflict between any adopted non-NATO standard and relevant NATO standard, the definition of the latter prevails.

<sup>2</sup>References: NATO Letter AC/322(SC/5)L/144 of 18 October 2000, CCEB Letter D/CCEB/WS/1/16 of 9 November 2000, NATO Letter AC/322(SC/5)L/157 of 13 February 2001



**Figure 7.1. C3 Taxonomy**

058. In principle, NISP only contains or references standards or related documents, which are generally available for NATO/NATO member nations/CCEB.

059. However, a subset of documents may only be available for those nations or organizations, which are joining a specific mission or are members of a special working group. The membership in these activities is outside the scope of NISP.

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## CHAPTER 8. APPLICABILITY

060. The mandatory standards and profiles documented in Volume 2 will be used in the implementation of NATO Common Funded Systems. Participating nations agree to use the mandatory standards and profiles included in the NISP at the Service Interoperability Points and to use Service Interface Profiles among NATO and Nations to support the exchange of information and the use of information services in the NATO realm.

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## **APPENDIX A. PROFILE GUIDANCE**

### **A.1. PROFILE CONCEPTUAL BACKGROUND**

061. ISO/IEC TR 10000 [2] defines the concept of profiles as a set of one or more base standards and/or International Standardized Profiles, and, where applicable, the identification of chosen classes, conforming subsets, options and parameters of those base standards, or International Standardized Profiles necessary to accomplish a particular function.

062. The C3 Board (C3B) Interoperability Profiles Capability Team (IP CaT) has extended the profile concept to encompass references to NAF architectural views [1], characteristic protocols, implementation options, technical standards, Service Interoperability Points (SIOP), and related profiles.

063. Nothing in this guidance precludes the referencing of National profiles or profiles developed by non-NATO organizations in the NATO Interoperability Standards and Profiles (NISP).

### **A.2. PURPOSE OF INTEROPERABILITY PROFILES**

064. Interoperability Profiles aggregate references to the characteristics of other profiles types to provide a consolidated perspective.

065. Interoperability Profiles identify essential profile elements including Capability Requirements and other NAF architectural views [1], characteristic protocols, implementation options, technical standards, Service Interoperability Points, and the relationship with other profiles such as the system profile to which an application belongs.

066. NATO and Nations use profiles to ensure that all organizations will architect, invest, and implement capabilities in a coordinated way that will ensure interoperability for NATO and the Nations. Interoperability Profiles will provide context and assist or guide information technologists with an approach for building interoperable systems and services to meet required capabilities.

### **A.3. APPLICABILITY**

067. NISP stakeholders include engineers, designers, technical project managers, procurement staff, architects and other planners. Architectures, which identify the components of system operation, are most applicable during the development and test and evaluation phase of a project. The NISP is particularly applicable to a federated environment, where interoperability of mature National systems requires an agile approach to architectures.

068. The IP CaT has undertaken the development of interoperability profiles in order to meet the need for specific guidance at interoperability points between NATO and Nations systems

and services required for specific capabilities. As a component of the NISP, profiles have great utility in providing context and interoperability specifications for using mature and evolving systems during exercises, pre-deployment or operations. Application of these profiles also provides benefit to Nations and promotes maximum opportunities for interoperability with NATO common funded systems as well as national to national systems. Profiles for system or service development and operational use within a mission area enable Nations enhanced readiness and availability in support of NATO operations.

## **A.4. GUIDELINES FOR INTEROPERABILITY PROFILE DEVELOPMENT**

069. Due to the dynamic nature of NATO operations, the complex Command and Control structure, and the diversity of Nations and Communities of Interest (COI), interoperability must be anchored at critical points where information and data exchange between entities exists. The key drivers for defining a baseline set of interoperability profiles include:

- Identify the Service Interoperability Points and define the Service Interface Profiles
- Develop modular Architecture Building Blocks
- Use standards consistent with common architectures
- Develop specifications that are service oriented and independent of the technology implemented in National systems where practical
- Develop modular profiles that are reusable in future missions or capability areas
- Use an open system approach to embrace emerging technologies

070. The starting point for development of a profile is to clearly define the Service Interoperability Point where two entities will interface and the standards in use by the relevant systems.

071. The NISP is the governing authoritative reference for NATO interoperability profiles. Doctrine, Organization, Training, Materiel, Leadership and education, Personnel, Facilities and Interoperability (DOTMLPFI) capability analysis may result in a profile developer determining that some of the capability elements may not be relevant for a particular profile. In such cases, the "not applicable" sections may either be marked "not applicable" or omitted at the author's discretion.

## **A.5. STRUCTURE OF INTEROPERABILITY PROFILE DOCUMENTATION**

072. This section identifies typical elements of Interoperability Profile Documentation.



## A.5.1. Identification

073. Each NATO or candidate NATO Interoperability Profile **shall** have a unique identifier assigned to it when accepted for inclusion in the NISP. This **shall** be an alpha-numeric string appended to the root mnemonic from the NISP profile taxonomy.

## A.5.2. Profile Elements

074. Profile elements provide a coherent set of descriptive inter-related information to NATO, national, Non-Governmental Organization (NGO), commercial and other entities ('actors') desiring to establish interoperability.

075. Profiles are not concepts, policies, requirements, architectures, patterns, design rules, or standards. Profiles provide context for a specific set of conditions related to the aforementioned documents in order to provide guidance on development of systems, services, or even applications that must consider all of these capability related products. Interoperability Profiles provide the contextual relationship for the correlation of these products in order to ensure interoperability is 'built-in' rather than considered as an 'after-thought'.

### A.5.2.1. Applicable Standards

076. Each profile **should** document the standards required to support this or other associated profiles and any implementation specific options. The intention of this section is to provide an archive that shows the linkage between evolving sets of standards and specific profile revisions.

**Table A.1. Applicable Standards**

ID	Purpose/Service	Standards	Guidance
A unique profile identifier	A description of the purpose or service	A set of relevant Standard Identifier from the NISP	Implementation specific guidance associated with this profile (may be a reference to a separate annex or document)

### A.5.2.2. Related Profiles

077. Each profile should document other key related system or service profiles in a cross reference table. The intention of this section is to promote smart configuration management by including elements from other profiles rather than duplicating them in part or in whole within this profile. Related profiles would likely be referenced in another section of the profile.

**Table A.2. Related Profiles**

<b>Profile ID</b>	<b>Profile Description</b>	<b>Community of Interest</b>	<b>Associated SIOPs</b>
A unique profile identifier	A short description of the profile	Air, Land, Maritime, Special Ops, etc.	Unique SIOP identifiers

## **A.6. VERIFICATION AND CONFORMANCE**

078. Each profile **should** identify authoritative measures to determine verification and conformance with agreed quality assurance, Key Performance Indicators (KPIs), and Quality of Service standards such that actors are satisfied they achieve adequate performance. All performance requirements must be quantifiable and measurable; each requirement must include a performance (what), a metric (how measured), and a criterion (minimum acceptable value).

079. Stakeholders are invited to provide feedback to improve a profile's verification and conformance criteria.

080. Verification and Conformance is considered in terms of the following five aspects:

1. Approach to Validating Service Interoperability Points
2. Relevant Maturity Level Criteria
3. Key Performance Indicators (KPIs)
4. Experimentation
5. Demonstration

### **A.6.1. Approach to Validating Service Interoperability Points**

081. Each profile should describe the validation approach used to demonstrate the supporting service interoperability points. The intention of this section is to describe a high-level approach or methodology by which stakeholders may validate interoperability across the SIOP(s).

### **A.6.2. Relevant Maturity Level Criteria**

082. Each profile should describe the Maturity criteria applicable to the profile. The intention of this section is to describe how this profile supports the achievement of improved interoperability.

### **A.6.3. Key Performance Indicators (KPIs)**

083. Each profile should describe the associated Key Performance Indicators (KPIs) to establish a baseline set of critical core capability components required to achieve the enhanced

interoperability supported by this profile. The intention of this section is to assist all stakeholders and authorities to focus on the most critical performance-related items throughout the capability development process.

**Table A.3. Key Performance Indicators (KPIs)<sup>1</sup>**

Key Performance Indicators (KPI)	Description
KPI #1: Single (named) Architecture	
KPI #2: Shared Situational Awareness	
KPI #3: Enhanced C2	
KPI #4: Information Assurance	
KPI #5: Interoperability	
KPI #6: Quality of Service	
KPI #7: TBD	

<sup>1</sup>'notional' KPIs shown in the table are for illustrative purposes only.

## A.6.4. Experimentation

084. Each profile should document experimentation venues and schedules that will be used to determine conformance. The intention of this section is to describe how experimentation will be used to validate conformance.

## A.6.5. Demonstration

085. Each profile should document demonstration venues and schedules that demonstrate conformance. The intention of this section is to describe how demonstration will be used to validate conformance.

# A.7. CONFIGURATION MANAGEMENT AND GOVERNANCE

## A.7.1. Configuration Management

086. Each profile **shall** identify the current approach or approaches toward configuration management (CM) of core documentation used to specify interoperability at the Service Interoperability Point. The intention of this section is to provide a short description of how often documents associated with this profile may be expected to change, and related governance measures that are in place to monitor such changes [e.g., the IP CaT].

## A.7.2. Governance

087. Each profile **shall** identify **one or more authorities** to provide feedback and when necessary, Request for Change (RFC) for the Profile in order to ensure inclusion of the most

up-to-date details in the NISP. The intention of this section is to provide a clear standardized methodology by which stakeholders may submit recommended changes to this profile.

## References

- [1] *NATO Architecture Framework Version 4*. 25 January 2018. AC/322-D(2018)0002.
- [2] *Information Technology - Framework and Taxonomy of International Standardized Profiles - Part 3: Principals and Taxonomy for Open System Environment Profiles*. Copyright # 1998. ISO. ISO/IEC TR 10000-3.

## **APPENDIX B. INTEROPERABILITY IN THE CONTEXT OF NATO DEFENCE PLANNING**

### **B.1. NATO DEFENCE PLANNING**

088. The NATO Defence Planning Process (NDPP) is the primary means to identify required capabilities and promote their timely, coherent development and acquisition by Allies and the NATO Enterprise. It is operationally driven and delivers various products which could support the development and evolution of more detailed C3 architecture and interoperability requirements. The development of NDPP products also benefits from input by the architecture and interoperability communities, especially the NISP, leading to a more coherent development of CIS capabilities for the Alliance.

089. Ideally technical interoperability requirements align with the NDPP to ensure coherence in the development of capabilities within the Alliance. NDPP Mission Types and Planning Situations provide the essential foundation for the development of the Minimum Capability Requirements (MCR) and the derivation of high level information exchange and interoperability requirements. MCRs are expressed via a common set of definitions for capabilities (including CIS) called Capability Codes and Statements (CC&S), including explicit reference to STANAGs in some cases<sup>1</sup>. Interoperability aspects are primarily captured in free text form within the Capability Statements and in the subsequent NDPP Targets<sup>2</sup>. The NDPP products could be leveraged by the architecture and interoperability community, to define the operational context for required Architecture Building Blocks and interoperability profiles.

090. The Defence Planning Capability Survey (DPCS) is the tool to collect information on national capabilities, the architecture and interoperability communities should provide input on questions related to C3 related capabilities. The architecture and interoperability communities could also bring valuable insight and expertise to the formulation and tailoring of C3 capabilities-related targets to nations, groups of nations or the NATO enterprise.

091. In practice, there is not always an opportunity (time or money) for such a "clean" approach and compromises must be made - from requirements identification to implementation. In recognition of this fact, NATO has developed a parallel track approach, which allows some degree of freedom in the systems development. Although variations in sequence and speed of the different steps are possible, some elements need to be present. Architecture, including the selection of appropriate standards and technologies, is a mandatory step.

092. In a top-down execution of the systems development approach, architecture will provide guidance and overview to the required functionality and the solution patterns, based on longstanding and visionary operational requirements. In a bottom-up execution of the approach, which may be required when addressing urgent requirements and operational imperatives,

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<sup>1</sup>Bi-SC Agreed Capability Codes and Capability Statements, 26 January 2016 and SHAPE/PLANS/JCAP/FCP/16-311533 5000/FPR-0460/TTE-151451/Ser:NU0083

<sup>2</sup>C-M(2017)0021, NATO Capability Targets, 26 June 2017

architecture will be used to assess and validate chosen solution in order to align with the longer term vision.

093. The NISP is a major tool supporting NATO architecture work and must be suitable for use in the different variations of the systems development approach. The NISP will be aligned with the Architectural efforts of the C3 Board led by the ACaT.

094. The relationship of the NISP, the Architecture Building Blocks activities of the ACaT, and Allied Command Transformation Architecture efforts is of a mutual and reciprocal nature. Architecture products provide inputs to the NISP by identifying the technology areas that in the future will require standards. These architecture products also provide guidance on the coherence of standards by indicating in which timeframe certain standards and profiles are required. NATO Architectures benefit from the NISP by selecting coherent sets of standards from profiles.

## **APPENDIX C. CHANGES FROM NISP VERSION 12 (L) TO NISP VERSION 13 (M)**

095. Major content changes to NISP v13 include:

- FMN Spiral 4 Profile added as Candidate (Vol 3).
- 63 RFCs processed. Details of the RFC changes are captured in Appendix E.
- Implemented the NATO concept of a cover document and established the relationship between a cover document and a standard.
- Converted some NATO standards to cover documents and added the relevant standards to the database. Similarly added missing cover documents to existing NATO standards.
- Removed the concept of NSO documents and converted all NSO documents to NATO documents.
- Changed the definition of standards and profiles in volume 2 chapter 2 on request from NSO.
- Created new layout for PDF versions. The new layout is compliant with the NSO template for Allied Publications.

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## **APPENDIX D. DETAILED CHANGES FROM NISP VERSION 12 (L) TO NISP VERSION 13 (M)**

### **D.1. ADDED STANDARDS**

#### **D.1.1. C3B**

- NATO Architecture Framework (C3B ac322-n2018-0002:2018)

#### **D.1.2. DMTF**

- Open Virtualization Format Specification, v.1.1 (DMTF DSP0243 1.1:2013)

#### **D.1.3. Eclipse**

- Arcadia/Capella (Eclipse Capella 1.4:2020)

#### **D.1.4. IDEF**

- Function Modeling Method (IDEF IDEF0:1993)
- Data Modelling Method (IDEF IDEF1X:1993)

#### **D.1.5. IETF**

- Path MTU Discovery (IETF RFC 1191:1990)
- Address Allocation for Private Internets (IETF RFC 1918:1996)
- The Text/Plain Format and DelSp Parameters (IETF RFC 3676:2004)
- URI Fragment Identifiers for the text/plain Media Type (IETF RFC 5147:2008)
- XML Media Types (IETF RFC 7303:2014)

#### **D.1.6. ISO/IEC**

- Technical Corrigendum 1 to International Standard ISO/IEC 12087-5:1998 (ISO/IEC 12087-5-cor1:2001)
- Technical Corrigendum 2 to International Standard ISO/IEC 12087-5:1998 (ISO/IEC 12087-5-cor2:2002)

#### **D.1.7. ISO/IEC/IEEE**

- Enterprise, systems and software - Architecture processes (ISO/IEC/IEEE 42020:2019)
- Enterprise, systems and software - Architecture Evaluation (ISO/IEC/IEEE 42030:2019)

#### **D.1.8. MIP**

- MIP Information Model 5.0 (MIP MIM 5.0:2019)

- MIP 4.2 Information Exchange Specification (MIP MIP Ver 4.2:2018)

## D.1.9. NATO

- Technical standards for single channel UHF radio equipment (NATO AComP-4205 Ed A Ver 1:2018)
- Standard for optical connector medium-rate and high-rate military tactical link (NATO AComP-4290 Ed A Ver 2:2018)
- Characteristics of a Robust, Non-Hopping Serial Tone Modulator/Demodulator For Severely Degraded HF Radio Links (NATO AComP-4415 Ed A Ver 1:2015)
- Super High Frequency (SHF) Military Satellite Communications (MILSATCOM) Frequency Division Multiple Access (FDMA) Non-EPM Modem for Services Conforming to Class-B Of STANAG 4484 (NATO AComP-4486 Ed A Ver 1:2016)
- Super High Frequency (SHF) Military Satellite Communications (Milsatcom) EPM Waveform For Class B Services (NATO AComP-4606 Ed A Ver 1)
- Multi-hop IP Networking with legacy UHF Radios: Mobile ad hoc relay Line of Sight Networking (MARLIN) (NATO AComP-4691 Ed A Ver 1:2016)
- Interoperability Point Quality of Service (IP QoS) (NATO AComP-4711 Ed A Ver 1:2018)
- VLF / LF MSK Multi Channel Broadcast (NATO AComP-4724 Ed A Ver 1:2015)
- Networking Framework for All-IP Transport Services (NETIP) (NATO AComP-4731 Ed A Ver 1:2017)
- Standard for Interconnection of IPv4 and IPv6 Networks at Mission Secret and Unclassified Security Levels (NATO AComP-5067 Ed A Ver 1)
- Secure Communications Interoperability Protocol (SCIP) (NATO AComP-5068 Ed A Ver 2:2017)
- NATO Routing Indicator Book, NATO Supplement-1 (NATO ACP 117 NS-1(R):2013)
- Policy and Procedures for the Management of IFF/SSR, NATO Supplement-1 (NATO ACP 160 NS-1(G):2019)
- Concept of NATO Message Text Formatting System (CONFORMETS) (NATO ADatP-03 Ed A Ver 1:2010)
- Concept of NATO Message Text Formatting System (CONFORMETS) (NATO ADatP-03 Ed A Ver 3:2019)
- NATO Message Text Formatting System (FORMETS) - Concept of Formets (CONFORMETS) (NATO ADatP-03 Ver 4:2010)
- Services to forward Friendly Force Information to Weapon Delivery Assets (NATO ADatP-37 Ed A ver 1:2018)
- NATO Core Metadata Specification (NATO ADatP-39 (Study) Ed. A Ver. 1)
- NATO Vector Graphics Specification 2.0.2 (NATO ADatP-4733 Ed A Ver 1:2017)
- Confidentiality Metadata Label Syntax (NATO ADatP-4774 Ed A Ver 1:2017)
- Metadata Binding (NATO ADatP-4778 Ed A Ver 1:2018)
- Web Service Messaging Profile (WSMP) (NATO ADatP-5644 (Study) Ed A Ver 1)
- NATO SECONDARY IMAGERY FORMAT (NSIF) STANAG 4545 IMPLEMENTATION GUIDE (NATO AEDP-04 Ed 2 Ver 1:2013)
- NATO Secondary Imagery Format (NSIF) (NATO AEDP-04 Ed A Ver 1:2013)
- NATO Advanced Data Storage Interface (NADSI) (NATO AEDP-06 Ed B Ver 3:2014)

- NATO Ground Moving Target Indicator(GMTI) Format (NATO AEDP-07 Ed 2 Ver 1:2010)
- NATO Motion Imagery STANAG 4609 Implementation Guide (NATO AEDP-08 Ed 3 Ver 1:2009)
- Air Reconnaissance Primary Imagery Data Standard (NATO AEDP-09 Ed 1:2009)
- Imagery Air Reconnaissance Tape Recorder Interface (NATO AEDP-11 Ed 1:2001)
- NATO Intelligence, Surveillance And Reconnaissance Tracking Standard (NATO AEDP-12 Ed A Ver 1:2014)
- Biometrics Data, Interchange, Watchlisting and Reporting (NATO AEDP-15 Ed A Ver 1:2013)
- NATO standardization of measurement and signature intelligence (MASINT) Reporting (NATO AEDP-16)
- Nato Standard ISR Library Interface (NATO AEDP-17 Ed A Ver 1:2018)
- Nato Standard ISR Streaming Services (NATO AEDP-18 Ed A Ver 1:2018)
- Nato Standard ISR Workflow Architecture (NATO AEDP-19 Ed A Ver 1:2018)
- Interoperable Data Links for Imaging Systems (NATO AEDP-7085 Ed A Ver 1:2011)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) (NATO AEP-76 Ed. A Ver. 1:2014)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security (NATO AEP-76 1 Ed. A Ver. 1:2014)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model (NATO AEP-76 2 Ed. A Ver. 1:2014)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Loaned Radio (NATO AEP-76 3 Ed. A Ver. 1:2014)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism (NATO AEP-76 4 Ed. A Ver. 1:2014)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access (NATO AEP-76 5 Ed. A Ver. 1:2014)
- Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security (NATO AEP-76 Vol1 Ed A Ver 2:2017)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model (NATO AEP-76 Vol2 Ed A Ver 2:2017)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - LOANED RADIO (NATO AEP-76 III Ed. A Ver. 2:2017)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism (NATO AEP-76 Vol4 Ed A Ver 2:2017)
- Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access (NATO AEP-76 Vol5 Ed A Ver 2:2017)
- Standard Interfaces Of Unmanned Aircraft (UA) CONTROL System (UCS) for NATO UA Interoperability - Interface Control Document (NATO AEP-84 Vol 1 Ed.A Ver 1:2017)
- Standard Interfaces Of Unmanned Aircraft (Ua) Control System (UCS) for NATO UA Interoperability - Interface Control Document (NATO AEP-84 Vol 2 Ed.A Ver 1:2017)
- NATO Specifications for Global Area Reference System (GARS), Edition A Version 1 Oct 2012:Geodetic Datums, Projections, Grids and Grid References GEOREF, MGRS (NATO AGeoP-07 Ed A Ver 1:2012)

- NATO Geospatial Metadata Profile (NATO AGeoP-08 Ed B Ver 1:2019)
- NATO Geospatial Information Framework (NATO AGeoP-11 Ed B Ver 1:2018)
- Additional Military Layers (AML) - Digital Geospatial Data Products (NATO AGeoP-19 Ed A Ver 1:2015)
- Geodetic Datums, Projections, Grids and Grid References (NATO AGeoP-21 Ed A Ver 1:2016)
- NATO Imagery Interpretability Rating Scale (NIIRS) (NATO AIntP-07 Ed A Ver 1:2018)
- Allied Joint Medical Doctrine For Medical Evacuation (NATO AJMedP-2 Ed A Ver 1:2018)
- Captured Persons, Materiel And Documents (NATO AJP-2.5 Ed A:2007)
- Naval Mine Warfare Information - Data Transfer And Mine Warfare Data Centre Interoperability (NATO AMP-11 SUPP Ed. A Ver. 3)
- Mine Warfare Pilots - Southern North Sea (Belgium) (NATO AMP-11 VOL 01 Ver. 2)
- Mine Warfare Pilots - Denmark (NATO AMP-11 VOL 03 Ver. 2:1980)
- Mine Warfare Pilots - French Coast (The Channel) (NATO AMP-11 VOL 04 LEVEL 1 PT 1:1996)
- Mine Warfare Pilots - French Coast(Atlantic) (NATO AMP-11 VOL 04 LEVEL 1 PT 2:1994)
- Mine Warfare Pilots - French Coast(Mediterranean) (NATO AMP-11 VOL 04 LEVEL 1 PT 3:1998)
- Mine Warfare Pilots - French Coast (NATO AMP-11 VOL 04 LEVEL 2 Ver. 7:1980)
- Mine Warfare Pilots - German Bight (NATO AMP-11 VOL 05 PART 1:1971)
- Mine Warfare Pilots - Western Baltic (NATO AMP-11 VOL 05 PART 2:2006)
- Mine Warfare Pilots - Greece- Aegean Sea Coasts (NATO AMP-11 VOL 06 PART A Ver. 3:1999)
- Mine Warfare Pilots - Maridipart La Spezia (NATO AMP-11 VOL 07 PART A:1994)
- Mine Warfare Pilots - Southern Tyrrhenian Area (NATO AMP-11 VOL 07 PART B:2003)
- Mine Warfare Pilot (From Messina Strait To Assi Estuary Comprehensive Of Sicily Island) - Marisicilia Area (NATO AMP-11 VOL 07 PART C:2005)
- Mine Warfare Pilot - Italy (Taranto Area) (NATO AMP-11 VOL 07 PART D:1999)
- Mine Warfare Pilots - Italy (Maridipart Ancona) (NATO AMP-11 VOL 07 PART E:1996)
- Mine Warfare Pilots - Italy (Sardinia) (NATO AMP-11 VOL 07 PART F:2007)
- Mine Warfare Pilot: North Coast Of Spain - From Bidasoa River To Cape Penas (NATO AMP-11 VOL 08 PART 1 Ver. 1:2000)
- Mine Warfare Pilot: Northwest Coast Of Spain - From Cape Penas To Mino (NATO AMP-11 VOL 08 PART 2 Ver. 1:2000)
- Mine Warfare Pilot: South Coast Of Spain - From Guadiana River To Cape Of Gata (Including Ceuta And Melilla) (NATO AMP-11 VOL 08 PART 3 Ver. 1:1999)
- Mine Warfare Pilot: East Coast Of Spain - From Cape Of Gata To Barcelona (Including Balears Islands) (NATO AMP-11 VOL 08 PART 4 Ver. 1:2004)
- Mine Warfare Pilots - Coasts Of Turkey (NATO AMP-11 VOL 11)
- Mine Warfare Pilots - South Coast Of England And Thames (NATO AMP-11 VOL 12 PART A Ver. 12)
- Mine Warfare Pilots- West Coast Of England And Wales (NATO AMP-11 VOL 12 PART B Ver. 9)

- Mine Warfare Pilots- Northern Ireland And West Coast Of Scotland (NATO AMP-11 VOL 12 PART C Ver. 10)
- Mine Warfare Pilots - North And East Coasts Of Scotland And England (NATO AMP-11 VOL 12 PART D Ver. 11)
- Mine Warfare Pilots - Usa (North Carolina Approaches) (NATO AMP-11 VOL 13 PART 1)
- Mine Warfare Pilots - Usa (Norfolk Approaches) (NATO AMP-11 VOL 13 PART 2)
- Mine Warfare Pilots - Usa (Delaware Bay & Approaches) (NATO AMP-11 VOL 13 PART 3)
- Mine Warfare Pilot; Kings Bay, Ga/Mayport, Fl and Approaches (NATO AMP-11 VOL 13 PART 4)
- Standard on warship Electronic Chart Display and Information Systems (WECDIS) (NATO ANP-4564 Ed A Ver 1:2017)
- NATO Joint Military Symbolology (NATO APP-06 Ed D Ver 1:2017)
- Joint Brevity Words (NATO APP-07 Ed F Ver 2:2015)
- NATO Message Catalogue (NATO APP-11 Ed D Ver 1:2015)
- NATO Standard Bar Code Symbolologies (NATO APP-44 Ed A:2010)
- NATO Military Oceanographic and Rapid Environmental Assessment Support Procedures (NATO ATP 32 Ed E Ver 2:2019)
- Tactical Data Exchange - Link 1 (Point-to-Point) (NATO ATDLP-5.01 Ed A Ver 1:2015)
- Tactical Data Exchange - Link 11/11B (NATO ATDLP-5.11 Ed B Ver 1:2019)
- Tactical Data Exchange - Link 16 (NATO ATDLP-5.16 Ed B Ver 1:2019)
- Standard for Joint Range Extension Application Protocol (JREAP) (NATO ATDLP-5.18 Ed A Ver 1:2015)
- Joint Range Extension Application Protocol (JREAP) (NATO ATDLP-5.18 Ed B Ver 1:2016)
- Joint Range Extension Application Protocol (JREAP) (NATO ATDLP-5.18 Ed B Ver 2:2019)
- NATO Qualification Levels for Tactical Data Link Personnel (NATO ATDLP-5.55 Ed A Ver 1:2017)
- Standards for Interface of Data Links 1, 11, and 11B Through a Buffer (NATO ATDLP-6.01 Ed A Ver 1:2016)
- Standard Interface for Multiple Platform Link Evaluation (SIMPLE) (NATO ATDLP-6.02 Ed A Ver 1:2014)
- Warning and Reporting and Hazard Prediction of Chemical, Biological, Radiological and Nuclear Incidents (Operators Manual) (NATO ATP-45 Ed E Ver 1:2014)
- NATO Land Urgent Voice Messages (LUVN) Pocket Book (NATO ATP-97 Ed A Ver 1:2016)
- NATO Meteorological Codes Manual (NATO AWP-4 Ed B:2005)
- NATO Geospatial Metadata Profile - AGeoP-8 Edition B (NATO STANAG 2586 Ed 2:2019)
- NATO Geospatial Information Framework - AGeoP-11(B) Ver. 1 (NATO STANAG 2592 Ed 2:2018)
- Identification Data Combining Process - AIDPP-01 ed. A version 1 (NATO STANAG 4162 Ed 3)
- Technical Characteristics of Reverse IFF using Mode 5 Waveform - AETP-4722 Edition A (NATO STANAG 4722 Ed 1)

- Concept of NATO Message Text Formatting System (CONFORMETS) - ADatP-3 (NATO STANAG 5500 Ed 8:2019)
- NATO Core Metadata Specification - ADatP-39 Edition A (NATO STANAG 5636 (Study) Ed 1)
- Implementation Options and Guidance for integrating IFF Mk XIIA Mode 5 on Military Platforms (IOG) - AETP-11Bv1 (NATO STANREG 5635 Ed 1:2017)
- US Motion Imagery Standards Board (MISB) - Motion Imagery Standards Profile-2015.1 (NATO NNSTD MISP-2015.1:2016)

### **D.1.10. NATO Study (expected)**

- Geospatial Web Services (NATO Study (expected) AGeoP-26 Ed A Ver 1)
- NATO Message Catalogue (NATO Study (expected) APP-11 Ed E Ver 1)
- Tactical Data Exchange - Link 11/11B (NATO Study (expected) ATDLP-5.11 Ed A Ver 1)
- Standards for Data Forwarding between Tactical Data Systems - Link 16 (NATO Study (expected) ATDLP-5.16 Ed. A Ver. 1)
- Geospatial Web Services (NATO Study (expected) STANAG 6523 Ed 1 (RD))

### **D.1.11. NCIA**

- Profiles for Binding Metadata to a Data Object (NCIA TN-1491 Edition 2:2017)

### **D.1.12. OASIS**

- STIX Core Concepts (OASIS STIX Version 2.0 Part 1:2017)
- STIX Core Concepts (OASIS STIX Version 2.0 Part 2:2017)
- Cyber Observable Core Concepts (OASIS STIX Version 2.0 Part 3:2017)
- Cyber Observable Objects (OASIS STIX Version 2.0 Part 4:2017)
- STIX Patterning (OASIS STIX Version 2.0 Part 5:2017)
- Trusted Automated eXchange of Intelligence Information (OASIS TAXII Version 2.0:2017)

### **D.1.13. OGC**

- OpenGIS Symbology Encoding Implementation Specification (OGC 05-077r4:2007)
- GML application schema for the Simple and GML serializations of GeoRSS (OGC 1.1:2006)
- GeoRSS Geography Markup Language (OGC )

### **D.1.14. OMG**

- OMG Systems Modeling Language (OMG SysML) (OMG formal-17-05-01:2017)
- Unified Architecture Framework 1.0 (UAF) Domain Meta Model (DMM) (OMG formal/2017-12-02:2017)
- Unified Architecture Framework 1.0 (UAF) Domain Meta Model (DMM) (OMG formal/2017-12-02 DMM:2017)
- Unified Modeling Language (OMG formal/2017-12-01:2017)

### **D.1.15. Open Group**

- ArchiMate Model Exchange File Format for the ArchiMate Modeling Language 3.1 (Open Group c19c:2019)
- ArchiMate 3.1 Specification (Open Group c197:2019)

### **D.1.16. Opensearch**

- OpenSearch 1.1 Draft 6 (Opensearch opensearch11d6)

### **D.1.17. SEI**

- ATAM: Method for Architecture Evaluation (SEI cmu-sei-2000-tr-004:2000)

### **D.1.18. TM-FORUM**

- TMForum Event Management API R17.5 (TM-FORUM AP817:2017)
- TMForum Resource Inventory Management API REST Specification R17.0.1 (TM-FORUM TMF639:2017)

### **D.1.19. TMA**

- Cross.Industry Standard Process for Data Mining (TMA crisp-dm-1.0:2000)

### **D.1.20. US DoD**

- Over-The-Horizon Targeting Gold baseline 2007 (US DoD OTH-T Gold Baseline 2007:2007)

## **D.2. DELETED STANDARDS**

### **D.2.1. CCEB**

- Glossary of C-E Terms (CCEB ACP 167(G))
- Guide to Spectrum Management in Military Operations (CCEB ACP 190(A))
- Instructions for the Preparation of ACPs (CCEB ACP 198(N))
- Maritime Tactical Wide Area Networking (Volume 2) (CCEB ACP 200(C):2010)
- Maritime Tactical Wide Area Networking (MTWAN) in the Maritime Environment - Operating Guidance (CCEB ACP 200 V1(D))
- Multinational Videoconferencing Services (CCEB ACP 220(A):2008)

### **D.2.2. IETF**

- Simple Mail Transfer Protocol (IETF RFC 2821:2001)

### **D.2.3. ISO/IEC/IEEE**

- Enterprise, systems and software - Architecture processes (ISO/IEC/IEEE DIS42020:2017)

### **D.2.4. NATO**

- Address Groups and Call Signs, Instructions and Assignments, NATO Supplement-2 (NATO ACP 100 NS-2(A))
- NATO Routing Indicator Book, NATO Supplement-1 (NATO ACP 117 NS-1(S))
- NATO Routing Indicator Book, NATO Supplement-1 (NATO ACP 117 NS-1(T))
- NATO Subject Indicator System (NASIS), NATO Supplement-2 (NATO ACP 117 NS-2(C))
- Handling of ATOMAL Information Within Classified Communications Centres, NATO Supplement-2 (NATO ACP 122 NS-2(B))
- Policy and Procedures for the Management of IFF/SSR, NATO Supplement-1 (NATO ACP 160 NS-1(F):2014)
- Allied Naval and Maritime Air Communications Instructions, NATO Supplement-1 (NATO ACP 176 NS-1(E))
- ACP 190 (B) Expanding Procedures (NATO ACP 190(B) NATO Supp 1A:2003)
- ACP 190 (B) Classified Frequencies (NATO ACP 190(B) NATO Supp 2:2003)
- NATO guide to Spectrum Management in Military Operations (Classified Supplement) (NATO ACP 190(B) NATO Supp 2C:2011)
- NATO Guide to Spectrum Management in Military Operations, NATO Supplement-2 (NATO ACP 190 NS-2(D))
- NATO Vector Graphics (NVG) 2.0.2 - ADatP-4733 Edition A Ver 1 (NATO ADatP-4733 Ed A Ver 1:2017)
- NATO Geospatial Metadata Profile - AGeoP-8 Edition A (NATO STANAG 2586 Ed 1:2013)
- Super High Frequency (SHF) Military Satellite Communications (SATCOM) Frequency Division Multiple Access (FDMA) Non-EPM (Non-EPM) Modem for Services Conforming to Class-B of Stanag 4484 (NATO STANAG 4486 Ed 3:2015)
- Super High Frequency (SHF) MILSATCOM network management and controls (NATO STANAG 4505 Ed 1:2004)
- NATO Secondary Imagery Format (NSIF) (NATO STANAG 4545 Ed 1:1998)
- STANAG 4545 Edition 1 Amendment 1, NATO Secondary Imagery Format (NSIF) (NATO STANAG4545 Ed 1 Am 1:2000)
- Standard Interface for Multiple Platform Link Evaluation (SIMPLE) (NATO STANAG 5602 Ed 3:2010)
- Digital Geographic Information Exchange Standard (DIGEST) (NATO STANAG 7074 Ed 2:1998)
- Vector Map (VMap) Level 1 (NATO STANAG 7163 Ed 1:2003)
- Additional Military Layers (AML) - Digital Geospatial Data Products (NATO STANAG 7170 Ed 2:2010)

### **D.2.5. OMG**

- OMG Systems Modeling Language (OMG SysML) (OMG formal-2015-06-03:2015)



- Unified Modeling Language, v2.4.1 (OMG formal/2011-08-05:2011)

## **D.2.6. Open Group**

- ArchiMate Model Exchange File Format for the ArchiMate Modeling Language 3.0 (Open Group c174:2017)

## **D.2.7. W3C**

- Simple Object Access Protocol (SOAP) (W3C NOTE-SOAP-20000508:2000)

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## APPENDIX E. PROCESSED RFCS

096. The following RFC have been processed::

RFC #	Title	Origin
11-001	Add many Modelling and Simulation standard to NISP	NMSG
12-001	Replace NATO ACP 190 (B) NATO Supp 1A and Supp 2 with STANAG 5641 covering ASP-01 "Spectrum Management in Military Operations" in Track Services.	NHQC3S
12-002	Add STANAG 5642 covering ASP-02 "Spectrum Management in Military Operations - (SMADEF-XML) " in Track Services.	NHQC3S
13-001	Implemented as RFC 12-30 - Remove AC/322-D(2006)0066 - Interim NATO Friendly Force Information (FFI) from the BSP	FRA
13-006d	Replace ATP-45 Ed E V1 / STANAG 2103 v11 with ATP-45 Ed F V2 / STANAG 2203 v12	DEU
13-006e	Replace AWP-4 Ed B with AMETOC-4 I Ed. A Ver. 1 and AMETOC-4 II Ed. A Ver. 1	DEU
13-006j	Add WMO's Manuals on Codes - International Codes Vol. I.1	DEU
13-006k	Add WMO's Manuals on Codes - International Codes Vol. I.2	DEU
13-006l	Add Manual on Codes volume 2	DEU
13-006m	Add ICAO Meteorological Information Exchange Model	DEU
13-006n	Add AMETOC-3.2 Ed A Ver 1 - File Naming Convention for NATO Metoc data and product exchange	DEU
13-006o	Update release data of ATP-32	DEU
13-006p	Duplicate of 13-006d	DEU
13-006q	Duplicate of 13-006e	DEU
13-006s	Remove STANAG 4061 Ed 4	DEU
13-006t	Delete STANAG 4082 Ed 3	DEU
13-006u	Delete STANAG 4103 Ed 4	DEU
13-006v	Delete STANAG 4140 Ed 2	DEU
13-006w	Delete STANAG 6022 Ed 2	DEU
13-006y	Move AGeoP-26 Ed A Ver 1 to Geospatial Services in volume 2	DEU

<b>RFC #</b>	<b>Title</b>	<b>Origin</b>
13-006z	Move STANAG 4294 ed1 and ed2 to Navigational Equipment taxonomy node	DEU
13-006aa	Move OGC standards from un-aassigned taxonomy nodes to appropriate geo nodes	DEU
13-006ab	Describe in volume 1 what latest version of C3 Taxonomy means	DEU
13-006ae	JGS and JGSWG meged into one group MC / MCJSB / JGSWG	DEU
13-006af	Relocating cloud standards (Implemented via RFC 13-007)	DEU
13-009q	Change definition of STANAG	DEU
13-007a	Update to 17203:2017	NCIA/CES
13-007b	Move ISO/IEC 17788 to Core Service taxonomy node	NCIA/CES
13-007c	Move ISO/IEC 17789 to Core Service taxonomy node	NCIA/CES
13-007d	Update to ISO/IEC 19944:2017	NCIA/CES
13-007e	Update to ISO/IEC 17826:2016	NCIA/CES
13-007f	Update to ISO/IEC 19941:2017	NCIA/CES
13-007g	Remove ISO/IEC cd17826	NCIA/CES
13-007h	Update ISO/IEC 30102	NCIA/CES
13-007i	Reference ISO/IEC 17963 from multiple taxonomy nodes	NCIA/CES
13-007j	Add ISO/IEC 19099:2014 to Virtualization Management Services (from v4 of the C3 taxonomy)	NCIA/CES

# **NATO STANDARD**

## **ADatP-34**

### **NATO Interoperability Standards and Profiles**

#### **Volume 2**

#### **Agreed Interoperability Standards and Profiles**

#### **Edition N Version 1**

**9 October 2020**



### **NORTH ATLANTIC TREATY ORGANIZATION ALLIED DATA PUBLICATION**

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## **NATO LETTER OF PROMULGATION**

The enclosed Allied Data Publication ADatP-34, Edition N, Version 1 NATO Interoperability Standards and Profiles, which has been approved by the nations in the C3B, is promulgated herewith. The agreement of nations to use this publication is recorded in STANAG 5524.

ADatP-34, Edition N, Version 1 is effective on receipt.

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This publication shall be handled in accordance with C-M(2002)60.

Zoltán GULYÁS  
Brigadier General, HUNAF  
Director, NATO Standardization Office

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**RESERVED FOR NATIONAL LETTER OF PROMULGATION**

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## RECORD OF SPECIFIC RESERVATIONS

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Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.

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## CHAPTER 1. INTRODUCTION

001. Volume 2 of the NISP focuses on agreed interoperability standards and profiles.

002. The NISP references Standards from different standardization bodies<sup>1</sup>. In the case of a ratified STANAG, NATO Standardization procedures apply. The NISP only references these STANAG's without displaying the country-specific reservations. The country-specific reservations can be found in the NATO Standardization Office's NATO Standardization Document Database (NSDD).

003. The Combined Communications Electronics Board (CCEB) nations will use NISP Volume 2 Chapter 3 and Section 3.3 tables to publish the interoperability standards for the CCEB under the provisions of the NATO-CCEB List of Understandings (LoU)<sup>2</sup>.

### 1.1. SCOPE

004. The scope of this volume includes:

- Identifying the standards and technologies that are relevant to a service oriented environment,
- Describing the standards and technologies to support federation.

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<sup>1</sup>In case of conflict between any recommended non-NATO standard and relevant NATO standard, the definition of the latter prevails.

<sup>2</sup>References: NATO Letter AC/322(SC/5)L/144 of 18 October 2000, CCEB Letter D/CCEB/WS/1/16 of 9 November 2000, NATO Letter AC/322(SC/5)L/157 of 13 February 2001

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## **CHAPTER 2. REFERENCE MODELS: TRANSITION FROM PLATFORM CENTRIC TO SERVICE ORIENTED MODELS**

005. Information technology has undergone a fundamental shift from platform-oriented computing to service-oriented computing. Platform-oriented computing emerged with the widespread proliferation of personal computers and the global business environment. These factors and related technologies have created the conditions for the emergence of network-oriented computing. This shift from platform to network is what enables the more flexible and more dynamic network-oriented operation. The shift from viewing NATO and partner Nations as independent to viewing them as part of a continuously adapting network ecosystem fosters a rich information sharing environment.

006. This shift is most obvious in the explosive growth of the Internet, intranets, and extranets. Internet users no doubt will recognize transmission control protocol/internet protocol (TCP/IP), hypertext transfer protocol (HTTP), hypertext markup language (HTML), Web browsers, search engines, and Java<sup>1</sup> Computing. These technologies, combined with high-volume, high-speed data access (enabled by the low-cost laser) and technologies for high-speed data networking (switches and routers) have led to the emergence of network-oriented computing. Information “content” now can be created, distributed, and easily exploited across the extremely heterogeneous global computing environment. The “power” or “payoff” of network-oriented computing comes from information-intensive interactions between very large numbers of heterogeneous computational nodes in the network, where the network becomes the dynamic information grid established by interconnecting participants in a collaborative, coalition environment. At the structural level, network-enabled warfare requires an operational architecture to enable common processes to be shared.

007. One of the major drivers for supporting net-enabled operations is Service-Oriented Architectures (SOA). SOA is an architectural style that leverages heterogeneity, focuses on interfaces between services and as such this approach is inherently platform-neutral. It is focused on the composition of Services into flexible processes and is more concerned with the Service interface and above (including composition metadata, security policy, and dynamic binding information), more so than what sits beneath the abstraction of the Service interface. SOA requires a different kind of platform, because runtime execution has different meanings within SOA. SOA enables users and process architects to compose Services into processes, and then manage and evolve those processes, in a declarative fashion. Runtime execution of such processes is therefore a metadata-centric operation of a different kind of platform -- a Service-oriented composite application platform.

008. Service-enabled operations are characterized by new concepts of speed of command and self-synchronization.

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<sup>1</sup>Registered Trademark of ORACLE and/or its affiliates. Other names may be the trademarks of their respective owners.

009. The most important SOA within an enterprise is the one that links all its systems. Existing platforms can be wrapped or extended in order to participate in a wider SOA environment. NATO use of the NISP will provide a template for new systems development, as well as assist in defining the path for existing systems to migrate towards net-enabled operations.

## CHAPTER 3. STANDARDS

### 3.1. INTRODUCTION

010. The purpose of this chapter is to specify the agreed NISP standards. The document organizes these standards, following baseline 3.1 of NATO's C3 Taxonomy, as endorsed by the NATO C3 Board per AC/322-D(2019)0034-AS1(INV) on "C3 Taxonomy Baseline 3.1" dated 26 August 2019. A graphical representation of this taxonomy is included in volume 1.

011. For some standards it was not clear yet which service identified in the C3 Taxonomy should be used. Therefore, as an interim solution, the taxonomy was extended with e.g. user-defined "Cloud Services". In a separate section, all standards are listed for which could not yet be defined how they should be linked to the C3 Taxonomy.

012. The standards are presented in tabular form. Each table represent a subtree from the C3 taxonomy and each table line (marked in bold and spanning all columns in the table) represents a taxonomy node from the subtree. Under each taxonomy node title, all standards which are mapped to the node are listed with the following attributes: title of the standard; where possible, a link to the standard; publication number of the standard<sup>1</sup>; a list of all the capability profiles where the standard is used; and finally the "responsible party" which is the domain expert that advises NATO about the standard. In general, a taxonomy node is only listed if at least one standard is assigned to this taxonomy node.

013. When STANAG X Ed Y is in ratification process, this is indicated by STANAG (RD) X Ed Y, and when it is a study draft, this is indicated by STANAG (Study) X Ed Y.

#### 3.1.1. Releasability Statement

014. In principle, NISP only contains or references standards or related documents, which are generally available for NATO/NATO member nations/CCEB.

### 3.2. USER APPLICATIONS

Title	Pubnum	Profiles	Responsible Party
<b>Service Management Domain Applications</b>			
<b>TMF000 Event API REST Specification R17.5<sup>1</sup></b>	TM-FORUM TMF000:2017	SIP-FOR-SMC	FMN CPWG
<b>Trouble Ticket REST API Specification R14.5.1 Interface</b>	TM-FORUM TMF621:2015	SIP-FOR-SMC	FMN CPWG
<b>Product Ordering API REST Specification R14.5.1 Interface</b>	TM-FORUM TMF622:2015	SIP-FOR-SMC	FMN CPWG

<sup>1</sup>If the standard is a NATO standard and has a cover document, the publication number is followed by a slash and the publication number of the cover document.

Title	Pubnum	Profiles	Responsible Party
TMF638 Service Inventory API REST Specification R16.5	TM-FORUM TMF638:2016	SIP-FOR-SMC	FMN CPWG
TMF661 Trouble Ticket API Conformance Profile R16.5.1	TM-FORUM TMF661:2017	SIP-FOR-SMC	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250:2016	SIP-FOR-SMC	FMN CPWG
<b>Architecture Management Application</b>			
NATO Architecture Framework	C3B ac322- n2018-0002:2018	ARCHITECTURE	C3B Arch iCaT
Enterprise, systems and software - Architecture processes	ISO/IEC/IEEE 42020:2019	ARCHITECTURE	C3B Arch iCaT
Enterprise, systems and software - Architecture Evaluation	ISO/IEC/IEEE 42030:2019	ARCHITECTURE	C3B Arch iCaT
NATO Interoperability Standards and Profile eXchange Specification	NATO AC/322- D(2017)0007-U:2017	BSP	C3B IP iCaT
Unified Architecture Framework 1.0 (UAF) Domain Meta Model (DMM)	OMG formal/2017-12-02:2017	ARCHITECTURE	C3B Arch iCaT
Unified Architecture Framework 1.0 (UAF) Domain Meta Model (DMM)	OMG formal/2017-12-02 DMM:2017	ARCHITECTURE	C3B Arch iCaT
ArchiMate 3.1 Specification	Open Group c197:2019	ARCHITECTURE	C3B Arch iCaT
ArchiMate Model Exchange File Format for the ArchiMate Modeling Language 3.1	Open Group c19c:2019	ARCHITECTURE	C3B Arch iCaT
<b>Joint Applications</b>			
IFF Operational Procedures	CCEB ACP 160(E):2004	BSP	C3B NACP CaT
Policy and Procedures for the Management of IFF/SSR, NATO Supplement-1	NATO ACP 160 NS-1(G):2019	BSP	C3B NACP CaT
Implementation Options and Guidance for integrating IFF Mk XIIA Mode 5 on Military Platforms (IOG)	NATO AETP-11 Ed. B Ver. 1:2017 / STANREG 5635 Ed 1	BSP	C3B CaP2 IFF CaT
Technical Characteristics of the IFF Mk XIIA System Part I:	NATO STANAG 4193 Ed 3 P1:2016	BSP	C3B CaP2

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
System Description and General Characteristics			
Technical Characteristics of the IFF Mk XIIIA System Part II: Classified System Characteristics	NATO STANAG 4193 Ed 3 P2:2016	BSP	C3B CaP2
Technical Characteristics of the IFF Mk XIIIA System Part III: Installed System Characteristics	NATO STANAG 4193 Ed 3 P3:2016	BSP	C3B CaP2
<b>Geospatial Applications</b>			
NATO Geospatial Information Framework	NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2	BSP	MC, MCJSB, JGS
<b>Office Automation Applications</b>			
XMP Specification Part 3, Storage in Files	ADOBE XMP-part3-2016:2016	BINDING-EXTENSIBLE-V2	NCIA
Graphic Technology - Extensible metadata platform (XMP) specification - Part 1: Data model, serialization and core properties	ISO 16684-1:2012	BINDING-EXTENSIBLE-V2	NCIA
Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 1: OpenDocument Schema	ISO/IEC 26300-1:2015	BSP	FMN CPWG
Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 2: Recalculated Formula (OpenFormula) Format	ISO/IEC 26300-2:2015	BSP	FMN CPWG
Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 3: Packages	ISO/IEC 26300-3:2015	BSP	FMN CPWG
Office Open XML File Formats -- Part 2: Open Packaging Conventions	ISO/IEC 29500-2:2012	BINDING-GENERIC-V2, BINDING-OOXML-V2	NCIA
Rich Text Format (RTF) Specification, Version 1.9.1	Microsoft RTF 1.9.1:2008	BSP	NCIA/Sstrat/Sea
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	BINDING-EXTENSIBLE-	C3B CaP1 DM CaT

Title	Pubnum	Profiles	Responsible Party
		V2, BINDING-GENERIC-V2, BINDING-OXML-V2	
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2, BINDING-OXML-V2	C3B CaP1 DM CaT
RDF 1.1 Concepts and Abstract Syntax	W3C REC-rdf11-concepts-20140225:2014	BINDING-EXTENSIBLE-V2	NCIA/CES
RDF Primer	W3C REC-rdf-primer-20040210:2004	BINDING-EXTENSIBLE-V2	NCIA
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	BINDING-EXTENSIBLE-V2	FMN CPWG
<b>Browser Application</b>			
Geolocation API Specification 2nd Edition	W3C geolocation-API:2016	SIP-FOR-WEB-APPS	FMN CPWG
HTML5 Differences from HTML4	W3C NOTE-html5-diff:2014	SIP-FOR-WEB-APPS	FMN CPWG
Hypertext Markup Language revision 5.2 (HTML5)	W3C REC-html52:2017	SIP-FOR-WEB-APPS	FMN CPWG
Hypertext Markup Language revision 5.3 Editor's Draft (4.7)	W3C REC-html53-Draft:2018	SIP-FOR-WEB-APPS	FMN CPWG
Media Source Extensions	W3C REC-media-source:2016	SIP-FOR-WEB-APPS	FMN CPWG
Mobile Web Application Best Practices	W3C REC-mwabp:2010	SIP-FOR-WEB-APPS	FMN CPWG
Web Speech API	W3C speech-API:2018	SIP-FOR-WEB-APPS	FMN CPWG
DOM Parsing and Serialization	W3C WD-DOM-Parsing:2016	SIP-FOR-WEB-APPS	FMN CPWG

<sup>1</sup>TMF000 is included in FMN Spiral 3. An official publication number is not yet available.



### 3.3. TECHNICAL SERVICES

015. The “Technical Services” include those services required to enable “User Applications”. They are part of the “Back-End Capabilities” while “User Applications” are part of “User-Facing Capabilities”.

016. According to the C3 Taxonomy, they consist of “Community Of Interest (COI) Services”, “Core Services” and “Communications Services”. The complete collection of Technical Services is sometimes referred to as the “Technical Services Framework” (TSF) or “NNEC Services Framework” (NSF).

017. In addition to the “Technical Services” identified in the C3 Taxonomy, a taxonomy layer “Cloud Computing” has been added. This enables a more useful categorization of cloud-based standards (currently only included as candidate standards).

#### 3.3.1. Community Of Interest (COI) Services

Title	Pubnum	Profiles	Responsible Party
<b>Community Of Interest (COI) Services</b>			
Web Services for Management (WS-Management) Specification	ISO/IEC 17963:2013	BSP	NCIA/SMC
<b>Air Domain Services</b>			
IFF Operational Procedures	CCEB ACP 160(E):2004	BSP	C3B NACP CaT
Policy and Procedures for the Management of IFF/SSR, NATO Supplement-1	NATO ACP 160 NS-1(G):2019	BSP	C3B NACP CaT
Implementation Options and Guidance for integrating IFF Mk XIIA Mode 5 on Military Platforms (IOG)	NATO AETP-11 Ed. B Ver. 1:2017 / STANREG 5635 Ed 1	BSP	C3B CaP2 IFF CaT
Joint Brevity Words	NATO APP-07 Ed F Ver 2:2015 / STANAG 1401 Ed 15	BSP	MC, MCJSB, IERHWG
Technical Characteristics of the IFF Mk XIIA System Part I: System Description and General Characteristics	NATO STANAG 4193 Ed 3 P1:2016	BSP	C3B CaP2
Technical Characteristics of the IFF Mk XIIA System Part II: Classified System Characteristics	NATO STANAG 4193 Ed 3 P2:2016	BSP	C3B CaP2

Title	Pubnum	Profiles	Responsible Party
<a href="#">Technical Characteristics of the IFF Mk XIIA System Part III: Installed System Characteristics</a>	NATO STANAG 4193 Ed 3 P3:2016	BSP	C3B CaP2
<b>Recognized Air Picture Services</b>			
<a href="#">Tactical Data Exchange - Link 1 (Point-to-Point)</a>	NATO ATDLP-5.01 Ed A Ver 1:2015 / STANAG 5501 Ed 7	BSP	C3B CaP1 TDL CaT
<a href="#">Tactical Data Exchange - Link 1 (Point-to-Point) - ATDLP-5.01 Edition A</a>	NATO STANAG 5501 Ed 7:2015	BSP	C3B CaP1 TDL CaT
<a href="#">Tactical Data Exchange - Link 11/11B</a>	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
<a href="#">Tactical Data Exchange - Link 16</a>	NATO STANAG 5516 Ed 4:2008	FMN3	C3B CaP1 TDL CaT
<a href="#">Standard for Joint Range Extension Application Protocol (JREAP)</a>	NATO STANAG 5518 Ed 1:2014	BSP	C3B CaP1 TDL CaT
<a href="#">Joint Range Extension Application Protocol (JREAP) - ATDLP-5.18 Edition B Version 2<sup>1</sup></a>	NATO STANAG FT 5518 Ed 4:2019	FMN3	C3B CaP1 TDL CaT
<a href="#">NATO Improved Link Eleven (NILE) - Link 22</a>	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
<b>Recognized Maritime Picture Services</b>			
<a href="#">Tactical Data Exchange - Link 11/11B</a>	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
<a href="#">Tactical Data Exchange - Link 16</a>	NATO STANAG 5516 Ed 4:2008	BSP	C3B CaP1 TDL CaT
<a href="#">NATO Improved Link Eleven (NILE) - Link 22</a>	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
<a href="#">NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT)</a>	NATO TIDE/ NVG:2008	FMN3	NCIA/C2
<a href="#">Operational Specification for OVER-THE-HORIZON TARGETING GOLD (Revision C) (OTH-G)</a>	US DoD OTH-G Rev. C:1997	FMN2, FMN3	FMN CPWG
<b>Meteorology Services</b>			
<a href="#">Manual on the ICAO Meteorological Information Exchange Model</a>	ICAO 10003:2019	BSP	MC, MCJSB, METOC

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
File Naming Convention for NATO Metoc data and product exchange	NATO AMETOCP-3.2 Ed A Ver 1:2019	BSP	MC, MCJSB, METOC
NATO Meteorological and Oceanographic Codes Manual - Vol 1	NATO AMETOCP-4 I Ed. A Ver. 1:2019 / STANAG 6015 Ed. 5	BSP	MC, MCJSB, METOC
NATO Meteorological and Oceanographic Codes Manual - Vol 2	NATO AMETOCP-4 II (NR) Ed. A Ver. 1:2019 / STANAG 6015 Ed. 5	BSP	MC, MCJSB, METOC
NATO Military Oceanographic and Rapid Environmental Assessment Support Procedures	NATO ATP 32 Ed E Ver 2:2019 / STANAG 1171 Ed 10	BSP	MC, MCJSB, METOC
Warning and Reporting and Hazard Prediction of Chemical, Biological, Radiological and Nuclear Incidents (Operators Manual)	NATO ATP-45 Ed F Ver 2:2020 / STANAG 2103 Ed 12	BSP	MC, MCJSB, JCBRND CDG
Specifications for Naval Mine Warfare Information and for Data Transfer - AMP-11 (Supplement) Edition A	NATO STANAG 1116 Ed 10:2014	BSP	MC, MCMSB, NMW
Manual on Codes - International Codes, Volume I.1, Annex II to the WMO Technical Regulations: part A- Alphanumeric Codes	WMO 306 Vol I.1:2019	BSP	MC, MCJSB, METOC
Manual on Codes - International Codes, Volume I.2, Annex II to the WMO Technical Regulations: Part B – Binary Codes, Part C – Common Features to Binary and Alphanumeric Codes	WMO 306 Vol I.2:2019	BSP	MC, MCJSB, METOC
Manual on Codes - Regional Codes and National Coding Practices, Volume II	WMO 306 Vol 2:2018	BSP	MC, MCJSB, METOC
<b>COI-Enabling Services</b>			
ECMAScript Language Specification ed.5.1:2011	ECMA ECMA-262:2011	BSP	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
ECMAScript for XML (E4X) Specification ed.2:2005	ECMA ECMA-357:2005	BSP	NCIA/CES
Representation of Dates and Times	ISO 8601:2004	BSP	NCIA/Sstrat/ Sea
MIP Information Model 5.0	MIP MIM 5.0:2019	BSP	C3B CaP1 DM CaT
NATO Standard Bar Code Symbolologies	NATO APP-44 Ed A:2010 / STANAG 4329 Ed 4	BSP	MC, MCLSB, AST
Date and Time Formats	W3C NOTE-datetime:1998	BSP	NCIA/Sstrat/ Sea
<b>Situational Awareness Services</b>			
Tactical Data Exchange - Link 1 (Point-to-Point)	NATO ATDLP-5.01 Ed A Ver 1:2015 / STANAG 5501 Ed 7	BSP	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 11/11B	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16	NATO STANAG 5516 Ed 4:2008	FMN3	C3B CaP1 TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP)	NATO STANAG 5518 Ed 1:2014	BSP	C3B CaP1 TDL CaT
Joint Range Extension Application Protocol (JREAP) - ATDLP-5.18 Edition B Version 2 <sup>1</sup>	NATO STANAG FT 5518 Ed 4:2019	FMN3	C3B CaP1 TDL CaT
NATO Improved Link Eleven (NILE) - Link 22	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
Joint C3 Information Exchange Data Model (JC3IEDM)	NATO STANAG 5525 Ed 1:2007	BSP	C3B CaP1 DM CaT
<b>Symbology Services</b>			
Portable Network Graphics (PNG) Specification, v. 1.0	IETF RFC 2083:1997	BSP	NCIA/CES
NATO Joint Military Symbology - APP-6(D)	NATO STANAG 2019 Ed 7:2017	FMN3	MC, MCJSB, IERHWG
Military Telecommunications-Diagram Symbols	NATO STANAG 5042 Ed 1:1978	BSP	C3B CaP1

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT)</a>	NATO TIDE/ NVG:2008	FMN3	NCIA/C2
<a href="#">Web Feature Service Implementation Specification</a>	OGC 04-094:2005	BSP	NCIA/Sstrat/ Sea
<a href="#">OpenGIS Symbology Encoding Implementation Specification</a>	OGC 05-077r4:2007	BSP	MC, MCJSB, JGS
<b>Tasking and Order Services</b>			
<a href="#">Joint C3 Information Exchange Data Model (JC3IEDM)</a>	NATO STANAG 5525 Ed 1:2007	BSP	C3B CaP1 DM CaT
<b>Operations Information Services</b>			
<a href="#">Joint C3 Information Exchange Data Model (JC3IEDM)</a>	NATO STANAG 5525 Ed 1:2007	FMN2	C3B CaP1 DM CaT
<b>Battlespace Event Services</b>			
<a href="#">NATO Message Catalogue<sup>2</sup></a>	NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6	FMN3	MC, MCJSB, IERHWG
<a href="#">Joint C3 Information Exchange Data Model (JC3IEDM)</a>	NATO STANAG 5525 Ed 1:2007	FMN2	C3B CaP1 DM CaT
<b>Battlespace Object Services</b>			
<a href="#">Joint C3 Information Exchange Data Model (JC3IEDM)</a>	NATO STANAG 5525 Ed 1:2007	FMN3	C3B CaP1 DM CaT
<b>Track Management Services</b>			
<a href="#">Guide to Electromagnetic Spectrum Management in military Operations</a>	CCEB ACP 190(D):2013	BSP	C3B NACP CaT
<a href="#">Carrier Sense Multiple Access/ Collision Detect (CSMA/CD)</a>	ISO/IEC 8802-3:2000	BSP	NCIA/NSII
<a href="#">NATO Message Catalogue</a>	NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6	FMN2, FMN3	MC, MCJSB, IERHWG
<a href="#">Spectrum Management in Military Operations</a>	NATO ASP-01 Ed A Ver 2:2020 / STANAG 5641 Ed 1	BSP	C3B CaP3
<a href="#">Spectrum Management Allied Data Exchange Format - Extensible</a>	NATO ASP-02 Ed A Ver 2:2020 / STANAG 5642 Ed 1	BSP	C3B CaP3

Title	Pubnum	Profiles	Responsible Party
Markup Language (SMADEF-XML)			
Tactical Data Exchange - Link 1 (Point-to-Point)	NATO ATDLP-5.01 Ed A Ver 1:2015 / STANAG 5501 Ed 7	BSP	C3B CaP1 TDL CaT
Identification Data Combining Process	NATO STANAG 4162 Ed 2:2009	BSP	C3B CaP2
Battlefield Target Identification Device (BTIDs)	NATO STANAG 4579 Ed 1:2001	BSP	C3B CaP2
Tactical Data Exchange - Link 11/11B	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16	NATO STANAG 5516 Ed 4:2008	FMN3, SIP-RECOGNIZED-AIR-PICTURE-DATA	C3B CaP1 TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP)	NATO STANAG 5518 Ed 1:2014	FMN2	C3B CaP1 TDL CaT
Joint Range Extension Application Protocol (JREAP) - ATDLP-5.18 Edition B Version 2 <sup>1</sup>	NATO STANAG FT 5518 Ed 4:2019	FMN3	C3B CaP1 TDL CaT
NATO Improved Link Eleven (NILE) - Link 22	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
Friendly Force Tracking Systems (FFTS) Interoperability - ADatP-36 Edition A	NATO STANAG 5527 Ed 1:2017	FMN2, FMN3	C3B CaP2 FFT CaT
Standard Interface for Multiple Platform Link Evaluation (SIMPLE) - ATDLP-6.02 Edition A	NATO STANAG 5602 Ed 4:2014	FMN2	C3B CaP1 TDL CaT
<b>Modeling and Simulation Services</b>			
Modeling and Simulation (M&S) High Level Architecture (HLA)	IEEE P1516:2000	BSP	NCIA/E&T
SEDRIS functional specification	ISO/IEC FCD 18023-1:2006	BSP	NCIA/JISR
Common Object Request Broker Architecture (CORBA):2009	OMG formal/2002-12-06:2002	BSP	NCIA/JISR

Title	Pubnum	Profiles	Responsible Party
Standard for Command and Control Systems - Simulation Systems Interoperation	SISO C2SIM:2020	BSP	
Distributed Simulation Engineering and Execution Process	SISO DSEEP:2011	BSP	
Enumerations for Distributed Simulation	SISO Enum:2020	BSP	
High Level Architecture	SISO HLA:2010	BSP	

<sup>1</sup>The SIP for Recognized Air Picture Data refers to ATDLP-5.18 Ed B Version 1 instead of ATDLP-5.18 Ed B Version 2

<sup>2</sup>STANAG 7149 Ed 6/APP-11 (Study) Edition D ver 2 should be noted as an emerging standard that will extend the message formats in APP-11(D)(1) with new Urgent Operational Requirements.

### 3.3.2. Core Services

Title	Pubnum	Profiles	Responsible Party
<b>Core Services</b>			
Identification cards - Contactless integrated circuit(s) cards - Proximity cards	ISO/IEC 14443:2008	BSP	C3B NPMA
Security Techniques - Evaluation criteria for IT security:2009	ISO/IEC 15408:2005	BSP	C3B CaP4
Information technology - Cloud computing - Overview and vocabulary	ISO/IEC 17788:2014	BSP	NCIA/CES
Information technology - Cloud computing - Reference architecture	ISO/IEC 17789:2014	BSP	NCIA/CES
Web Services for Management (WS-Management) Specification	ISO/IEC 17963:2013	BSP	NCIA/SMC
<b>Business Support CIS Security Services</b>			
Machine readable travel documents - Part 1: Machine readable passport	ISO/IEC 7501-1:2008	BSP	NCIA/Sstrat/Sea
NATO Public Key Infrastructure (NPKI) Certificate Policy (CertP) Rev2.	NATO AC/322-D(2004)0024REV2:2008	BSP	C3B NPMA
SAML Token Profile 1.1	OASIS wss-v1.1-errata-os-SAMLSAMLTokenProfile:2006	BSP	C3B CaP4



Title	Pubnum	Profiles	Responsible Party
WSS XML Schema	OASIS wssutil:2001	BSP	NCIA/CS
WS-Trust 1.4	OASIS wstrust-1.4:2012	BSP	NCIA/CS
Basic Security Profile Version 1.1	WS-I BasicSecurityProfile-1.1-2010-01-24.html	BSP	C3B CaP4:2010
<b>Business Support Guard Services</b>			
Interim Implementation Guide for ACP 123/STANAG 4406 Messaging Services Between Nations	CCEB ACP 145(A):2008	BSP	C3B NACP CaT
<b>Business Support SMC Services</b>			
Trouble Ticket REST API Specification R14.5.1 Interface	TM-FORUM TMF621:2015	FMN2	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250:2016	FMN2	FMN CPWG
<b>Communication and Collaboration Services</b>			
Session Initiation Protocol	IETF RFC 3261:2002	BSP	FMN CPWG
Document management -- Portable document format -- Part 1: PDF 1.7	ISO 32000-1:2008	BSP	FMN CPWG
HyperText Markup Language (HTML)	ISO/IEC 15445:2000	BSP	FMN CPWG
Open Document Format (ODF) for Office Applications (OpenDocument) v1.0	ISO/IEC 26300:2006	BSP	FMN CPWG
Gateway Control Protocol (MGCP) v3	ITU-T H.248.1:2013	BSP	NCIA/NSII
Circuit-based Multimedia Comms. System	ITU-T H.320:2004	BSP	NCIA/NSII
Advanced Distributed Learning (ADL)	NATO STANAG 2591 Ed 1:2013	BSP	MC, MCJSB, NTG
XEP-0004: Data Forms	XMPP XEP-0004:2007	BSP	FMN CPWG
XEP-0030: Service Discovery	XMPP XEP-0030:2008	BSP	FMN CPWG
<b>Informal Messaging Services</b>			



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies	IETF RFC 1521:1993	FMN2	FMN CPWG
Hypertext Markup Language - 2.0	IETF RFC 1866:1995	FMN2, FMN3	FMN CPWG
SMTP Service Extension for Message Size Declaration	IETF RFC 1870:1995	FMN1, FMN2, FMN3	FMN CPWG
The text/enriched MIME Content-type	IETF RFC 1896:1996	FMN2, FMN3	FMN CPWG
Post Office Protocol - Version 3	IETF RFC 1939:1996	BSP	NCIA/CES
SMTP Service Extension for Remote Message Queue Starting	IETF RFC 1985:1996	FMN1, FMN2	FMN CPWG
SMTP Service Extension for Returning Enhanced Error Codes	IETF RFC 2034:1996	FMN1, FMN2, FMN3	FMN CPWG
MIME - Part 1: Format of Internet Message Bodies	IETF RFC 2045:1996	FMN1, FMN2, FMN3	FMN CPWG
MIME - Part 2: Media Types	IETF RFC 2046:1996	FMN1, FMN2, FMN3	FMN CPWG
MIME - Part 3: Message Header Extensions for Non-ASCII Text	IETF RFC 2047:1996	FMN1, FMN2, FMN3	FMN CPWG
MIME - Part 5: Conformance Criteria and Examples	IETF RFC 2049:1996	FMN1, FMN2, FMN3	FMN CPWG
MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations	IETF RFC 2231:1997	BINDING-SMTP-V2	NCIA
The TLS Protocol Version 1.0	IETF RFC 2246:1999	SIP-FOR-TLS	FMN CPWG
Content-ID and Message-ID Uniform Resource Locators	IETF RFC 2392:1998	BINDING-SMTP-V2	NCIA/CES
SMTP Service Extension for Command Pipelining	IETF RFC 2920:2000	FMN1, FMN2, FMN3	FMN CPWG
SMTP Service Extensions for Transmission of Large and Binary MIME Messages	IETF RFC 3030:2000	FMN2	NCIA/CES
SMTP Service Extension for Secure SMTP over TLS	IETF RFC 3207:2002	FMN1, FMN2, FMN3	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
SMTP Service Extension for Delivery Status Notifications	IETF RFC 3461:2003	FMN1, FMN2, FMN3	FMN CPWG
Internet Message Access Protocol Version 4, revision 1	IETF RFC 3501:2003	BSP	NCIA/CES
UTF-8, a transformation format of ISO/IEC 10646	IETF RFC 3629:2003	FMN2, FMN3	FMN CPWG
Transport Layer Security Protocol Compression Methods	IETF RFC 3749:2004	SIP-FOR-TLS	FMN CPWG
Message Disposition Notification	IETF RFC 3798:2004	FMN1, FMN2	FMN CPWG
SMTP Service Extension for Message Tracking	IETF RFC 3885:2004	FMN1, FMN2	FMN CPWG
Media Type Specifications and Registration Procedures	IETF RFC 4288:2005	FMN1, FMN2, FMN3	FMN CPWG
The Transport Layer Security (TLS) Protocol Version 1.1	IETF RFC 4346:2006	SIP-FOR-TLS	FMN CPWG
Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS)	IETF RFC 4492:2006	SIP-FOR-TLS	FMN CPWG
SMTP Service Extension for Authentication	IETF RFC 4954:2007	FMN1, FMN2, FMN3	FMN CPWG
Transport Layer Security (TLS)	IETF RFC 5246:2008	SIP-FOR-TLS	C3B CaP4
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	SIP-FOR-TLS	FMN CPWG
Simple Mail Transfer Protocol	IETF RFC 5321:2008	FMN1, FMN2, FMN3	FMN CPWG
Internet Message Format	IETF RFC 5322:2008	BINDING-SMTP-V2	NCIA
Extensible Provisioning Protocol (EPP) Domain Name Mapping	IETF RFC 5731:2009	BINDING-SMTP-V2	NCIA
Transport Layer Security (TLS) Renegotiation Indication Extension	IETF RFC 5746:2010	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Extensions: Extension Definitions	IETF RFC 6066:2011	SIP-FOR-TLS	FMN CPWG
The Secure Sockets Layer (SSL) Protocol Version 3.0	IETF RFC 6101:2011	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Representation and Verification of Domain-Based Application Service Identity within Internet Public Key Infrastructure Using X.509 (PKIX) Certificates in the Context of Transport Layer Security (TLS)	IETF RFC 6125:2011	SIP-FOR-TLS	FMN CPWG
SMTP Service Extension for 8-bit MIME Transport	IETF RFC 6152:2011	FMN2, FMN3	FMN CPWG
Prohibiting Secure Sockets Layer (SSL) Version 2.0	IETF RFC 6176:2011	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) Heartbeat Extension	IETF RFC 6520:2012	SIP-FOR-TLS	FMN CPWG
Update to Internet Message Format to Allow Group Syntax in the From: and Sender: Header Fields	IETF RFC 6854:2013	BSP	NCIA/CES
X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP	IETF RFC 6960:2013	SIP-FOR-TLS	FMN CPWG
The Transport Layer Security (TLS) Multiple Certificate Status Request Extension	IETF RFC 6961:2013	SIP-FOR-TLS	FMN CPWG
Encrypt-then-MAC for Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7366:2014	SIP-FOR-TLS	FMN CPWG
Security Labels in Internet Email	IETF RFC 7444:2015	BINDING-SMTP-V2	NCIA
Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7525:2015	SIP-FOR-TLS	FMN CPWG
Deprecating Secure Sockets Layer Version 3.0	IETF RFC 7568:2015	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension	IETF RFC 7627:2015	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)	IETF RFC 7919:2016	SIP-FOR-TLS	FMN CPWG
Transmission Control Protocol	IETF RFC 793:1981	SIP-FOR-TLS	FMN CPWG
The SSL Protocol	IETF RFC SSL2:1995	SIP-FOR-TLS	FMN CPWG
Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)	ISO 19005-1:2005	FMN1, FMN2, FMN3	FMN CPWG
Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2)	ISO 19005-2:2011	FMN1, FMN2, FMN3	FMN CPWG
Document management -- Portable document format -- Part 1: PDF 1.7	ISO 32000-1:2008	FMN1, FMN2, FMN3	FMN CPWG
Digital compression and coding of continuous-tone still images: Requirements and guidelines	ISO/IEC 10918-1:1994	FMN1, FMN2, FMN3	FMN CPWG
Digital compression and coding of continuous-tone still images: Extensions	ISO/IEC 10918-3:1997	FMN1, FMN2, FMN3	FMN CPWG
Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference	ISO/IEC 29500-1:2012	FMN1, FMN2, FMN3	FMN CPWG
NATO Message Catalogue	NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6	FMN2	MC, MCJSB, IERHWG
NATO Message Catalogue <sup>2</sup>	NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6	FMN3	MC, MCJSB, IERHWG
Interface Control Definition for the International Exchange of MIDS/JTIDS Network (NETMAN T/1)	NATO ATDLP-7.03(B) (1):2019	BSP	C3B CaP1 TDL CaT
Captured Persons, Materiel And Documents - AJP-2.5(A)	NATO STANAG 2195 Ed 2:2007	FMN3	MC, MCJSB, JINT
Allied Joint Medical Doctrine For Medical Evacuation - AJMedP-2 Edition A	NATO STANAG 2546 Ed 2:2018	FMN3	COMEDS, MCMedSB, MedStd EM

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
NATO Land Urgent Voice Messages (LUVM) Pocket Book - ATP-97 Edition A	NATO STANAG 2627 Ed 1:2016	FMN3	MC, MCLSB, LO
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN2, FMN3	FMN CPWG
NATO Secondary Imagery Format (NSIF) - AEDP-04 Edition 2	NATO STANAG 4545 Ed 2:2013	FMN3	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format - AEDP-07 Edition 2	NATO STANAG 4607 Ed 3:2010	FMN3	FMN CPWG
NATO Digital Motion Imagery Standard - MISP-2015.1	NATO STANAG 4609 Ed 4:2016	FMN3	FMN CPWG
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard – AEDP-12 Edition A	NATO STANAG 4676 Ed 1:2014	FMN3	FMN CPWG
NATO standardization of measurement and signature intelligence (MASINT) Reporting - AEDP-16 Edition A	NATO STANAG (Study) 4716 Ed 1	FMN3	CNAD, AC/224 NAFAG, JCGISR
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	BINDING-SMTP-V2	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING-SMTP-V2	C3B CaP1 DM CaT
<b>Fax Services</b>			
Procedures for document facsimile transmission in the general switched telephone network	ITU-T T.30:2005	BSP	NCIA/NSII
Interoperability of Tactical Digital Facsimile Equipment	NATO STANAG 5000 Ed 3:2006	BSP	C3B CaP1 N&S CaT
<b>Calendaring and Scheduling Services</b>			
Internet Calendaring and Scheduling Core Object Specification (iCalendar)	IETF RFC 5545:2009	FMN3	FMN CPWG
iCalendar Transport-Independent Interoperability Protocol (iTIP)	IETF RFC 5546:2009	FMN3	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
iCalendar Message-Based Interoperability Protocol (iMIP)	IETF RFC 6047:2010	FMN3	FMN CPWG
<b>Video-based Communication Services</b>			
Session Initiation Protocol	IETF RFC 3261:2002	FMN2, FMN3	FMN CPWG
Reliability of Provisional Responses in the Session Initiation Protocol (SIP)	IETF RFC 3262:2002	FMN2, FMN3	FMN CPWG
An Offer/Answer Model with the Session Description Protocol (SDP)	IETF RFC 3264:2002	FMN2, FMN3	FMN CPWG
The Session Initiation Protocol (SIP) UPDATE Method	IETF RFC 3311:2002	FMN2, FMN3	FMN CPWG
RTP: A Transport Protocol for Real-Time Applications	IETF RFC 3550:2003	FMN1	FMN CPWG
Session Timers in the Session Initiation Protocol (SIP)	IETF RFC 4028:2005	FMN2, FMN3	FMN CPWG
A Framework for Conferencing with the Session Initiation Protocol (SIP)	IETF RFC 4353:2006	FMN2, FMN3	FMN CPWG
Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events	IETF RFC 4411:2006	FMN2, FMN3	FMN CPWG
Communications Resource Priority for the Session Initiation Protocol (SIP)	IETF RFC 4412:2006	FMN2, FMN3	FMN CPWG
SDP: Session Description Protocol	IETF RFC 4566:2006	FMN2, FMN3	FMN CPWG
Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents	IETF RFC 4579:2006	FMN2, FMN3	FMN CPWG
Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP)	IETF RFC 5366:2008	FMN2, FMN3	FMN CPWG
RTP Payload Format for H.264 Video	IETF RFC 6184:2011	FMN2, FMN3	FMN CPWG
SIP-Specific Event Notification	IETF RFC 6665:2012	FMN2, FMN3	FMN CPWG
RTP Topologies	IETF RFC 7667:2015	FMN2, FMN3	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Notation for national and international telephone numbers, e-mail addresses and web addresses	ITU-T E.123:2001	FMN2, FMN3	FMN CPWG
The international public telecommunication numbering plan	ITU-T E.164:2010	FMN1, FMN2, FMN3	FMN CPWG
Pulse code modulation (PCM) of voice frequencies	ITU-T G.711:1988	FMN2, FMN3	FMN CPWG
7 kHz Audio-Coding within 64 kbit/s	ITU-T G.722:2012	FMN1	FMN CPWG
Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss	ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008	FMN2, FMN3	FMN CPWG
Call signalling protocols and media stream packetization for packet-based multimedia communication systems	ITU-T H.225.0:2009	FMN1	FMN CPWG
Control protocol for multimedia communication	ITU H.245:2011	FMN1	FMN CPWG
Video coding for low bit rate communication	ITU-T H.263:2005	FMN1	FMN CPWG
Advanced video coding for generic audiovisual services	ITU-T H.264:2017	FMN1, FMN2, FMN3	FMN CPWG
Packet-based Multimedia Communication System	ITU-T H.323:2001	FMN1	FMN CPWG
International Network Numbering for Communications Systems in use in NATO	NATO STANAG 4705 Ed 1:2015	BSP, FMN1, FMN2, FMN3	C3B CaP1 N&S CaT
The NATO Military Communications Directory System	NATO STANAG 5046 Ed 4:2015	BSP, FMN1	C3B CaP1 N&S CaT
<b>Audio-based Communication Services</b>			
Session Initiation Protocol	IETF RFC 3261:2002	FMN1	FMN CPWG
Reliability of Provisional Responses in the Session Initiation Protocol (SIP)	IETF RFC 3262:2002	FMN1	FMN CPWG
An Offer/Answer Model with the Session Description Protocol (SDP)	IETF RFC 3264:2002	FMN1	FMN CPWG
The Session Initiation Protocol (SIP) UPDATE Method	IETF RFC 3311:2002	FMN1	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Session Initiation Protocol (SIP) Extension for Instant Messaging	IETF RFC 3428:2002	FMN1	FMN CPWG
RTP: A Transport Protocol for Real-Time Applications	IETF RFC 3550:2003	FMN1, FMN2, FMN3	FMN CPWG
Session Timers in the Session Initiation Protocol (SIP)	IETF RFC 4028:2005	FMN1	FMN CPWG
Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events	IETF RFC 4411:2006	FMN2, FMN3	FMN CPWG
Communications Resource Priority for the Session Initiation Protocol (SIP)	IETF RFC 4412:2006	FMN1, FMN2, FMN3	FMN CPWG
SDP: Session Description Protocol	IETF RFC 4566:2006	FMN1	FMN CPWG
RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals	IETF RFC 4733:2006	FMN2, FMN3	FMN CPWG
SCIP Signalling Plan rev.3.3	CIS3 C&IP SCIP-210:2010	FMN2, FMN3	C3B CaP1 N&S CaT
Network-Specific Minimum Essential Requirements (MERs) for SCIP Devices, rev.1.2	CIS3 C&IP SCIP-214:2010	FMN2	C3B CaP1 N&S CaT
SCIP over RTP rev.1.0	CIS3 C&IP SCIP-214.2:2010	FMN3	C3B CaP1 N&S CaT
Securing SIP Signaling - Use of TLS with SCIP	CIS3 C&IP SCIP-214.3:2014	FMN3	C3B CaP1 N&S CaT
U.S. SCIP/IP Implementation Standard and MER Publication rev.2.2	CIS3 C&IP SCIP-215:2011	FMN2	C3B CaP1 N&S CaT
Requirement Document	CIS3 C&IP SCIP-220:2006	FMN2	C3B CaP1 N&S CaT
SCIP Minimum Implementation Profile (MIP) rev.3.0	CIS3 C&IP SCIP-221:2011	FMN2	C3B CaP1 N&S CaT
SCIP Cryptography Specification - Main Module rev.1.1	CIS3 C&IP SCIP-233:2012	FMN2	C3B CaP1 N&S CaT
Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0	CIS3 C&IP SCIP-233.350:2012	FMN3	C3B CaP1 N&S CaT



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Secure MELP(e) Voice rev.1.1	CIS3 C&IP SCIP-233.501:2012	FMN3	C3B CaP1 N&S CaT
Secure G.729D Voice Specification Rev. 1.1.	CIS3 C&IP SCIP-233.502:2011	FMN3	C3B CaP1 N&S CaT
Notation for national and international telephone numbers, e-mail addresses and web addresses	ITU-T E.123:2001	FMN2, FMN3	FMN CPWG
The international public telecommunication numbering plan	ITU-T E.164:2010	FMN1, FMN2, FMN3	FMN CPWG
Pulse code modulation (PCM) of voice frequencies	ITU-T G.711:1988	FMN2, FMN3	FMN CPWG
Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss	ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008	FMN2, FMN3	FMN CPWG
14 kHz audio codec	ITU-T G.722.1c:2012	BSP	NCIA/NSII
Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP)	ITU-T G.729:2012	FMN1, FMN2, FMN3	FMN CPWG
Advanced video coding for generic audiovisual services	ITU-T H.264:2017	FMN3	FMN CPWG
Packet-based Multimedia Communication System	ITU-T H.323:2001	BSP	FMN CPWG
Secure Communications Interoperability Protocol (SCIP)	NATO AComP-5068 Ed A Ver 2:2017 / STANAG 5068 Ed 1	BSP	C3B CaP1 N&S CaT
NATO Message Catalogue	NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6	FMN2	MC, MCJSB, IERHWG
NATO Message Catalogue <sup>2</sup>	NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6	FMN3	MC, MCJSB, IERHWG
Captured Persons, Materiel And Documents - AJP-2.5(A)	NATO STANAG 2195 Ed 2:2007	FMN3	MC, MCJSB, JINT

Title	Pubnum	Profiles	Responsible Party
Allied Joint Medical Doctrine For Medical Evacuation - AJMedP-2 Edition A	NATO STANAG 2546 Ed 2:2018	FMN3	COMEDS, MCMedSB, MedStd EM
NATO Land Urgent Voice Messages (LUVN) Pocket Book - ATP-97 Edition A	NATO STANAG 2627 Ed 1:2016	FMN3	MC, MCLSB, LO
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN2, FMN3	FMN CPWG
NATO Secondary Imagery Format (NSIF) - AEDP-04 Edition 2	NATO STANAG 4545 Ed 2:2013	FMN3	CNAD, AC/224 NAFAG, JCGISR
The 600 Bit/S, 1200 Bit/S AND 2400 Bit/S NATO Interoperable Narrow Band Voice Coder	NATO STANAG 4591 Ed 1:2008	BSP	C3B CaP1 N&S CaT
NATO Ground Moving Target Indicator(GMTI) Format - AEDP-07 Edition 2	NATO STANAG 4607 Ed 3:2010	FMN3	FMN CPWG
NATO Digital Motion Imagery Standard - MISP-2015.1	NATO STANAG 4609 Ed 4:2016	FMN3	FMN CPWG
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard – AEDP-12 Edition A	NATO STANAG 4676 Ed 1:2014	FMN3	FMN CPWG
International Network Numbering for Communications Systems in use in NATO	NATO STANAG 4705 Ed 1:2015	FMN1, FMN2, FMN3	C3B CaP1 N&S CaT
NATO standardization of measurement and signature intelligence (MASINT) Reporting - AEDP-16 Edition A	NATO STANAG (Study) 4716 Ed 1	FMN3	CNAD, AC/224 NAFAG, JCGISR
The NATO Military Communications Directory System	NATO STANAG 5046 Ed 4:2015	FMN1	C3B CaP1 N&S CaT
<b>Text-based Communication Services</b>			
The TLS Protocol Version 1.0	IETF RFC 2246:1999	SIP-FOR-TLS	FMN CPWG
Enhanced Security Services for S/MIME	IETF RFC 2634:1999	BINDING-XMPP-V2	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
UTF-8, a transformation format of ISO/IEC 10646	IETF RFC 3629:2003	FMN2, FMN3	FMN CPWG
Transport Layer Security Protocol Compression Methods	IETF RFC 3749:2004	SIP-FOR-TLS	FMN CPWG
Extensible Messaging and Presence Protocol (XMPP): Core	IETF RFC 3920:2004	FMN1	FMN CPWG
Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence	IETF RFC 3921:2004	FMN1	FMN CPWG
The Transport Layer Security (TLS) Protocol Version 1.1	IETF RFC 4346:2006	SIP-FOR-TLS	FMN CPWG
Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS)	IETF RFC 4492:2006	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS)	IETF RFC 5246:2008	SIP-FOR-TLS	C3B CaP4
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Renegotiation Indication Extension	IETF RFC 5746:2010	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Extensions: Extension Definitions	IETF RFC 6066:2011	SIP-FOR-TLS	FMN CPWG
The Secure Sockets Layer (SSL) Protocol Version 3.0	IETF RFC 6101:2011	SIP-FOR-TLS	FMN CPWG
Extensible Messaging and Presence Protocol (XMPP): Core	IETF RFC 6120:2011	BINDING-XMPP-V2, FMN2, FMN3	NCIA
Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence	IETF RFC 6121:2011	BINDING-XMPP-V2, FMN2, FMN3	NCIA
Extensible Messaging and Presence Protocol (XMPP): Address Format	IETF RFC 6122:2011	BINDING-XMPP-V2, FMN2, FMN3	NCIA
Representation and Verification of Domain-Based Application Service Identity within Internet Public Key Infrastructure Using X.509 (PKIX)	IETF RFC 6125:2011	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Certificates in the Context of Transport Layer Security (TLS)			
Prohibiting Secure Sockets Layer (SSL) Version 2.0	IETF RFC 6176:2011	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) Heartbeat Extension	IETF RFC 6520:2012	SIP-FOR-TLS	FMN CPWG
X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP	IETF RFC 6960:2013	SIP-FOR-TLS	FMN CPWG
The Transport Layer Security (TLS) Multiple Certificate Status Request Extension	IETF RFC 6961:2013	SIP-FOR-TLS	FMN CPWG
Encrypt-then-MAC for Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7366:2014	SIP-FOR-TLS	FMN CPWG
Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7525:2015	SIP-FOR-TLS	FMN CPWG
Deprecating Secure Sockets Layer Version 3.0	IETF RFC 7568:2015	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension	IETF RFC 7627:2015	SIP-FOR-TLS	FMN CPWG
Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)	IETF RFC 7919:2016	SIP-FOR-TLS	FMN CPWG
Transmission Control Protocol	IETF RFC 793:1981	SIP-FOR-TLS	FMN CPWG
The SSL Protocol	IETF RFC SSL2:1995	SIP-FOR-TLS	FMN CPWG
NATO Message Catalogue	NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6	FMN2	MC, MCJSB, IERHWG
NATO Message Catalogue <sup>2</sup>	NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6	FMN3	MC, MCJSB, IERHWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">Captured Persons, Materiel And Documents - AJP-2.5(A)</a>	NATO STANAG 2195 Ed 2:2007	FMN3	MC, MCJSB, JINT
Allied Joint Medical Doctrine For Medical Evacuation - AJMedP-2 Edition A	NATO STANAG 2546 Ed 2:2018	FMN3	COMEDS, MCMedSB, MedStd EM
NATO Land Urgent Voice Messages (LUVN) Pocket Book - ATP-97 Edition A	NATO STANAG 2627 Ed 1:2016	FMN3	MC, MCLSB, LO
<a href="#">Air Reconnaissance Intelligence Report Forms</a>	NATO STANAG 3377:2002	FMN2, FMN3	FMN CPWG
<a href="#">NATO Secondary Imagery Format (NSIF) - AEDP-04 Edition 2</a>	NATO STANAG 4545 Ed 2:2013	FMN3	CNAD, AC/224 NAFAG, JCGISR
<a href="#">NATO Ground Moving Target Indicator(GMTI) Format - AEDP-07 Edition 2</a>	NATO STANAG 4607 Ed 3:2010	FMN3	FMN CPWG
<a href="#">NATO Digital Motion Imagery Standard - MISP-2015.1</a>	NATO STANAG 4609 Ed 4:2016	FMN3	FMN CPWG
<a href="#">NATO Intelligence, Surveillance And Reconnaissance Tracking Standard – AEDP-12 Edition A</a>	NATO STANAG 4676 Ed 1:2014	FMN3	FMN CPWG
<a href="#">NATO standardization of measurement and signature intelligence (MASINT) Reporting - AEDP-16 Edition A</a>	NATO STANAG (Study) 4716 Ed 1	FMN3	CNAD, AC/224 NAFAG, JCGISR
<a href="#">Confidentiality Metadata Label Syntax - ADatP-4774 Edition A</a>	NATO STANAG 4774 Ed 1:2017	BINDING-XMPP-V2	C3B CaP1 DM CaT
<a href="#">Metadata Binding - ADatP-4778 Edition A</a>	NATO STANAG 4778 Ed 1:2018	BINDING-XMPP-V2	C3B CaP1 DM CaT
<a href="#">XEP-0004: Data Forms</a>	XMPP XEP-0004:2007	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0012: Last Activity</a>	XMPP XEP-0012:2008	FMN2, FMN3	FMN CPWG
<a href="#">XEP-0030: Service Discovery</a>	XMPP XEP-0030:2008	FMN1, FMN2, FMN3	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
XEP-0045: Multi-User Chat	XMPP XEP-0045:2012	FMN1, FMN2, FMN3	FMN CPWG
XEP-0047: In-Band Bytestreams	XMPP XEP-0047:2012	FMN2, FMN3	FMN CPWG
XEP-0049: Private XML Storage	XMPP XEP-0049:2004	FMN1, FMN2, FMN3	FMN CPWG
XEP-0050: Ad-Hoc Commands	XMPP XEP-0050:2005	FMN1	FMN CPWG
XEP-0054: vcard-temp	XMPP XEP-0054:2008	FMN1, FMN2, FMN3	FMN CPWG
XEP-0055: Jabber Search	XMPP XEP-0055:2009	FMN2, FMN3	FMN CPWG
XEP-0059: Result Set Management	XMPP XEP-0059:2006	FMN2	NCIA
XEP-0060: Publish-Subscribe	XMPP XEP-0060:2010	BINDING- XMPP-V2, FMN2, FMN3	NCIA
XEP-0065: SOCKS5 Bytestreams	XMPP XEP-0065:2011	FMN2, FMN3	FMN CPWG
XEP-0082: XMPP Date and Time Profiles	XMPP XEP-0082:2013	FMN2	FMN CPWG
XEP-0092: Software Version	XMPP XEP-0092:2007	FMN1, FMN2, FMN3	FMN CPWG
XEP-0096: SI File Transfer	XMPP XEP-0096:2004	FMN1	FMN CPWG
XEP-0114: Jabber Component Protocol	XMPP XEP-0114:2012	FMN1, FMN2, FMN3	FMN CPWG
XEP-0115: Entity Capabilities	XMPP XEP-0115:2008	FMN1, FMN2, FMN3	FMN CPWG
XEP-0160: Best Practices for Handling Offline Messages	XMPP XEP-0160:2016	FMN2, FMN3	FMN CPWG
XEP-0198: Stream Management	XMPP XEP-0198:2011	FMN2, FMN3	NCIA
XEP-0199: XMPP Ping	XMPP XEP-0199:2009	FMN2, FMN3	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">XEP-0202: Entity Time</a>	XMPP XEP-0202:2009	FMN2, FMN3	NCIA
<a href="#">XEP-0203: Delayed Delivery</a>	XMPP XEP-0203:2009	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0220: Server Dialback</a>	XMPP XEP-0220:2013	FMN1, FMN2	FMN CPWG
<a href="#">XEP-0220: Server Dialback</a>	XMPP XEP-0220:2014	FMN3	FMN CPWG
<a href="#">XEP-0258: Security Labels in XMPP</a>	XMPP XEP-0258:2013	BINDING- XMPP-V2, FMN2, FMN3	NCIA
<a href="#">XEP-0313: Message Archive Management</a>	XMPP XEP-0313:2017	FMN2	FMN CPWG
<b>Presence Services</b>			
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Core</a>	IETF RFC 3920:2004	FMN1	FMN CPWG
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence</a>	IETF RFC 3921:2004	FMN1	FMN CPWG
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Core</a>	IETF RFC 6120:2011	FMN2, FMN3	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence</a>	IETF RFC 6121:2011	FMN2, FMN3	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Address Format</a>	IETF RFC 6122:2011	FMN2, FMN3	NCIA
<a href="#">XEP-0004: Data Forms</a>	XMPP XEP-0004:2007	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0012: Last Activity</a>	XMPP XEP-0012:2008	FMN2, FMN3	FMN CPWG
<a href="#">XEP-0030: Service Discovery</a>	XMPP XEP-0030:2008	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0045: Multi-User Chat</a>	XMPP XEP-0045:2012	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0047: In-Band Bytestreams</a>	XMPP XEP-0047:2012	FMN2, FMN3	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">XEP-0049: Private XML Storage</a>	XMPP XEP-0049:2004	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0050: Ad-Hoc Commands</a>	XMPP XEP-0050:2005	FMN1	FMN CPWG
<a href="#">XEP-0054: vcard-temp</a>	XMPP XEP-0054:2008	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0055: Jabber Search</a>	XMPP XEP-0055:2009	FMN2, FMN3	FMN CPWG
<a href="#">XEP-0059: Result Set Management</a>	XMPP XEP-0059:2006	FMN2	NCIA
<a href="#">XEP-0060: Publish-Subscribe</a>	XMPP XEP-0060:2010	FMN2, FMN3	NCIA
<a href="#">XEP-0065: SOCKS5 Bytestreams</a>	XMPP XEP-0065:2011	FMN2, FMN3	FMN CPWG
<a href="#">XEP-0082: XMPP Date and Time Profiles</a>	XMPP XEP-0082:2013	FMN2	FMN CPWG
<a href="#">XEP-0092: Software Version</a>	XMPP XEP-0092:2007	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0096: SI File Transfer</a>	XMPP XEP-0096:2004	FMN1	FMN CPWG
<a href="#">XEP-0114: Jabber Component Protocol</a>	XMPP XEP-0114:2012	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0115: Entity Capabilities</a>	XMPP XEP-0115:2008	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0160: Best Practices for Handling Offline Messages</a>	XMPP XEP-0160:2016	FMN2, FMN3	FMN CPWG
<a href="#">XEP-0198: Stream Management</a>	XMPP XEP-0198:2011	FMN2, FMN3	NCIA
<a href="#">XEP-0199: XMPP Ping</a>	XMPP XEP-0199:2009	FMN2, FMN3	NCIA
<a href="#">XEP-0202: Entity Time</a>	XMPP XEP-0202:2009	FMN2, FMN3	NCIA
<a href="#">XEP-0203: Delayed Delivery</a>	XMPP XEP-0203:2009	FMN1, FMN2, FMN3	FMN CPWG
<a href="#">XEP-0220: Server Dialback</a>	XMPP XEP-0220:2013	FMN1, FMN2	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
XEP-0220: Server Dialback	XMPP XEP-0220:2014	FMN3	FMN CPWG
XEP-0258: Security Labels in XMPP	XMPP XEP-0258:2013	FMN2, FMN3	NCIA
XEP-0313: Message Archive Management	XMPP XEP-0313:2017	FMN2	FMN CPWG
<b>Application Sharing Services</b>			
Data Protocols for Multimedia Conferencing	ITU-T T.120:2007	BSP	NCIA/NSII
<b>Geospatial Services</b>			
NATO Geospatial Metadata Profile	NATO AGeoP-08 Ed B Ver 1:2019 / STANAG 2586 Ed 2	BSP	MC, MCJSB, JGS
Additional Military Layers (AML) - Digital Geospatial Data Products	NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3	BSP	MC, MCJSB, JGS
Geodetic Datums, Projections, Grids and Grid References	NATO AGeoP-21 Ed A Ver 1:2016 / STANAG 2211 Ed 7	BSP	MC, MCJSB, JGS
Geospatial Web Services	NATO Study (expected) AGeoP-26 Ed A Ver 1 / STANAG 6523 Ed 1 (RD)	BSP	MC, MCJSB, JGS
Standard on warship Electronic Chart Display and Information Systems (WECDIS)	NATO ANP-4564 Ed A Ver 1:2017 / STANAG 4564 Ed 3	BSP	C3B CaP2
Digital Terrain Elevation Data (DTED) Exchange Format	NATO STANAG 3809 Ed 4:2004	BSP	MC, MCJSB, JGS
Compressed ARC Digitized Raster Graphics (CADRG)	NATO STANAG 7098 Ed 2:2004	BSP	MC, MCJSB, JGS
Controlled Imagery Base (CIB)	NATO STANAG 7099 Ed 2:2004	BSP	MC, MCJSB, JGS
World Geodetic System 84 (WGS-84)	NGA TR 8350.2:2004	BSP	NCIA/JISR
GML in JPEG 2000 for Geographic Imagery (GMLJP2)	OGC 05-047r3:2006	FMN2, FMN3	FMN CPWG

Title	Pubnum	Profiles	Responsible Party
Open GIS Web Map Service Implementation Specification	OGC 06-042:2006	BSP	FMN CPWG
Web Services Common Implementation Specification v2.0.0	OGC 06-121r9:2010	BSP	NCIA
OpenGIS Web Map Tile Service Implementation Standard	OGC 07-057r7:2010	BSP	NCIA/AWG
OGC KML	OGC 07-147r2:2008	FMN2, FMN3	FMN CPWG
GML Simple Features Profile v2.0	OGC 10-100r2:2010	BSP	NCIA/AWG
Geographical Tagged Image Format (GeoTIFF)	OSGEO 1.8.2:2000	FMN2, FMN3	FMN CPWG
<b>Geospatial Web Map Services</b>			
Geographic information - Web map server interface	ISO 19128:2005	FMN2	FMN CPWG
Open GIS Web Map Service Implementation Specification	OGC 06-042:2006	FMN2, FMN3	FMN CPWG
<b>Geospatial Web Feature Services</b>			
Geographic information - Web Feature Service	ISO 19142:2010	FMN2	FMN CPWG
OpenGIS Web Feature Service 2.0 Interface Standard	OGC 09-025r2:2006	FMN2, FMN3	FMN CPWG
<b>Geospatial Web Coverage Services</b>			
Web Coverage Service Core (WCS):2012	OGC 09-110r4:2012	BSP	NCIA/JISR
<b>Geospatial Web Map Tile Services</b>			
Geography Markup Language (GML) simple features profile Technical Note v 2.0	OGC 11-044:2011	FMN3	FMN CPWG
<b>Content Management Services</b>			
XMP Specification Part 3, Storage in Files	ADOBE XMP-part3-2016:2016	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA
HMAC: Keyed-Hashing for Message Authentication	IETF RFC 2104:1997	BINDING-CRYPTO-V2	NCIA
Key words for use in RFCs to Indicate Requirement Levels	IETF RFC 2119:1997	BINDING-COMMON-XML	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations	IETF RFC 2231:1997	BINDING-REST-V2, BINDING-SMTP-V2	NCIA
Content-ID and Message-ID Uniform Resource Locators	IETF RFC 2392:1998	BINDING-SMTP-V2	NCIA/CES
Enhanced Security Services for S/MIME	IETF RFC 2634:1999	BINDING-XMPP-V2	NCIA
UTF-8, a transformation format of ISO/IEC 10646	IETF RFC 3629:2003	FMN2, FMN3	FMN CPWG
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	BINDING-CRYPTO-V2	FMN CPWG
Internet Message Format	IETF RFC 5322:2008	BINDING-SMTP-V2	NCIA
Extensible Provisioning Protocol (EPP) Domain Name Mapping	IETF RFC 5731:2009	BINDING-SMTP-V2	NCIA
Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification	IETF RFC 5751:2010	BINDING-CRYPTO-V2	NCIA
Extensible Messaging and Presence Protocol (XMPP): Core	IETF RFC 6120:2011	BINDING-XMPP-V2	NCIA
Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence	IETF RFC 6121:2011	BINDING-XMPP-V2	NCIA
Extensible Messaging and Presence Protocol (XMPP): Address Format	IETF RFC 6122:2011	BINDING-XMPP-V2	NCIA
Additional XML Security Uniform Resource Identifiers (URIs)	IETF RFC 6931:2013	BINDING-CRYPTO-V2	NCIA
Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing	IETF RFC 7230:2014	BINDING-REST-V2	NCIA/CES
Security Labels in Internet Email	IETF RFC 7444:2015	BINDING-REST-V2, BINDING-SMTP-V2	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">JSON Web Signature (JWS)</a>	IETF RFC 7515:2015	BINDING-CRYPTO-V2	NCIA
<a href="#">Graphic Technology - Extensible metadata platform (XMP) specification - Part 1: Data model, serialization and core properties</a>	ISO 16684-1:2012	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA
<a href="#">Information Technology - Document Schema Definition Languages (DSDL) - Part 3: Rules-based validation - Schematron Second Edition</a>	ISO 19757-3:2016	BINDING-COMMON-XML	NCIA
<a href="#">Office Open XML File Formats -- Part 2: Open Packaging Conventions</a>	ISO/IEC 29500-2:2012	BINDING-GENERIC-V2, BINDING-OOXML-V2	NCIA
<a href="#">Information Technology - Security Techniques - Security information objects for access control</a>	ITU-T X.841:2000	BINDING-REST-V2	NCIA
<a href="#">Confidentiality Metadata Label Syntax - ADatP-4774 Edition A</a>	NATO STANAG 4774 Ed 1:2017	BINDING-COMMON-XML, BINDING-CRYPTO-V2, BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2, BINDING-METADATA, BINDING-OOXML-V2, BINDING-REST-V2, BINDING-SIDECAR-V2, BINDING-SMTP-V2, BINDING-SOAP, BINDING-	C3B CaP1 DM CaT

Title	Pubnum	Profiles	Responsible Party
		WSMP-V2, BINDING- XMPP-V2	
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING- COMMON- XML, BINDING- CRYPTO-V2, BINDING- EXTENSIBLE- V2, BINDING- GENERIC-V2, BINDING- METADATA, BINDING- OOXML-V2, BINDING- REST-V2, BINDING- SIDECAR-V2, BINDING- SMTP-V2, BINDING- SOAP, BINDING- WSMP-V2, BINDING- XMPP-V2	C3B CaP1 DM CaT
Context/value Association using genericcode 1.0	OASIS context-value- association-1.0:2010	BINDING- COMMON-XML	NCIA
Code List Representation (Genericcode)	OASIS cs- genericcode-1.0:2007	BINDING- COMMON-XML	NCIA
Web Services Security: SOAP Message Security 1.1	OASIS wss-v1.1- spec-os- SOAPMessageSecurity:2006	BINDING- CRYPTO-V2	NCIA/CES
Simple Object Access Protocol (SOAP)	W3C NOTE- SOAP-20000508:2000	BINDING-SOAP	NCIA
XML Security Algorithm Cross- Reference	W3C NOTE-xmlsec- algorithms-20130411:2013	BINDING- CRYPTO-V2	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">RDF 1.1 Concepts and Abstract Syntax</a>	W3C REC-rdf11-concepts-20140225:2014	BINDING-EXTENSIBLE-V2	NCIA/CES
<a href="#">RDF Primer</a>	W3C REC-rdf-primer-20040210:2004	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA
<a href="#">SOAP Version 1.2 Part 1: Messaging Framework</a>	W3C REC-soap12-part1-20030624:2003	BINDING-SOAP	NCIA
<a href="#">Associating Style Sheets with XML documents, Version 1.0</a>	W3C REC-xml-stylesheet-19990629:1999	BINDING-COMMON-XML	NCIA/CES
<a href="#">eXtensible Markup Language (XML) version 1.0 (Fifth Edition)</a>	W3C REC-xml-20081126:2008	BINDING-EXTENSIBLE-V2	FMN CPWG
<a href="#">XML-Signature Syntax and Processing (Second Edition)</a>	W3C REC-xmlsig-core-20080610:2008	BINDING-CRYPTO-V2, BINDING-SOAP	NCIA
<a href="#">Errata for XML Signature 2nd Edition</a>	W3C REC-xmlsig-core-20080610:2014	BINDING-CRYPTO-V2	NCIA
<a href="#">XML Signature Syntax and Processing Version 1.1</a>	W3C REC-xmlsig-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
<a href="#">XML Encryption Syntax and Processing</a>	W3C REC-xmlenc-core-20021210:2002	BINDING-CRYPTO-V2	NCIA
<a href="#">XML Encryption Syntax and Processing Version 1.1</a>	W3C REC-xmlenc-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
<a href="#">XML Schema Definition Language (XSD) 1.1 Part 1: Structures</a>	W3C REC-xmlschema11-1-20120405:2012	BINDING-COMMON-XML	NATO Archive Committee
<a href="#">XML Path Language 1.0</a>	W3C REC-xpath-19991119:1999	BINDING-CRYPTO-V2	NCIA
<a href="#">XML Pointer Language (Xpointer)</a>	W3C wd-xptr-20020816:2002	BINDING-CRYPTO-V2	NCIA
<a href="#">Open XML SPIF</a>	XML SPIF xmlspif:2010	BINDING-COMMON-XML	NCIA
<a href="#">XEP-0060: Publish-Subscribe</a>	XMPP XEP-0060:2010	BINDING-XMPP-V2	NCIA

Title	Pubnum	Profiles	Responsible Party
XEP-0258: Security Labels in XMPP	XMPP XEP-0258:2013	BINDING- XMPP-V2	NCIA
<b>Formal Messaging Services</b>			
Concept of NATO Message Text Formatting System (CONFORMETS)	NATO ADatP-03 Ed A Ver 3:2019 / STANAG 5500 Ed 8	BSP	C3B CaP1 MTF CaT
NATO Secondary Imagery Format (NSIF)	NATO AEDP-04 Ed A Ver 1:2013 / STANAG 4545 Ed 2	BSP	CNAD, AC/224 NAFAG, JCGISR
NATO Message Catalogue	NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6	BSP	MC, MCJSB, IERHWG
Tactical Data Exchange - Link 1 (Point-to-Point)	NATO ATDLP-5.01 Ed A Ver 1:2015 / STANAG 5501 Ed 7	BSP	C3B CaP1 TDL CaT
Interoperability of Low-level Ground-based Air Defence Surveillance, Command and Control Systems	NATO STANAG 4312 Ed 2:2012	BSP	CNAD, AC/225 NAAG, JCGGBAD
Military Message Handling System (MMHS)	NATO STANAG 4406 Ed 2:2006	BSP	C3B CaP1
Tactical Data Exchange - Link 11/11B	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16	NATO STANAG 5516 Ed 4:2008	BSP	C3B CaP1 TDL CaT
NATO Improved Link Eleven (NILE) - Link 22	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
<b>Search Services</b>			
The Dublin Core Metadata Element Set	ISO 15836:2010	BSP	NCIA/Sstrat/ Sea
TIDE Information Discovery (Request-Response) Protocol v2.3	NATO TIDE/TIDE-ID-RR:2009	BSP	NCIA/CES
<b>Archiving Services</b>			
TIFF Revision 6.0	ADOBE tiff:1992	ARCHIVE- ARCHIVE	NATO Archive Committee



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Specification of the Broadcast Wave Format (BWF) - Version 2	EBU Tech 3285:2011	ARCHIVE- ARCHIVE	NATO Archive Committee
MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)	IETF RFC 2557:2006	ARCHIVE- ARCHIVE	NCIA/CES
The application/mbox Media Type	IETF RFC 4155:2005	ARCHIVE- ARCHIVE	NCIA/CES
Common Format and MIME Type for Comma-Separated Values (CSV) Files	IETF RFC 4180:2005	ARCHIVE- ARCHIVE	NCIA/CES
Information and documentation - WARCfile format.	ISO 28500:2009	ARCHIVE- ARCHIVE	NATO Archive Committee
Document management -- Portable document format -- Part 1: PDF 1.7	ISO 32000-1:2008	ARCHIVE- ARCHIVE	FMN CPWG
Digital compression and coding of continuous-tone still images: Requirements and guidelines	ISO/IEC 10918-1:1994	ARCHIVE- ARCHIVE	FMN CPWG
Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s; PCM Part 3: audio	ISO/IEC 11172-3:1993	ARCHIVE- ARCHIVE	NCIA/NSII
Generic coding of moving pictures and associated audio information: Video	ISO/IEC 13818-2:2000	ARCHIVE- ARCHIVE	NCIA/CES
Generic coding of moving pictures and associated audio information -- Part 3: Audio	ISO/IEC 13818-3:1998	ARCHIVE- ARCHIVE	NCIA/CES
Coding of audio-visual objects -- Part 10: Advanced Video Coding	ISO/IEC 14496-10:2012	ARCHIVE- ARCHIVE	NCIA/CES
Coding of audio-visual objects -- Part 2: Visual	ISO/IEC 14496-2:2004	ARCHIVE- ARCHIVE	NCIA/CES
JPEG 2000 image coding system: Core coding system	ISO/IEC 15444-1:2004	ARCHIVE- ARCHIVE	NCIA/JISR
Database languages - SQL - Part 1: Framework	ISO/IEC 9075-1:2011	ARCHIVE- ARCHIVE	NCIA/Sstrat/ Sea



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OGC KML	OGC 07-147r2:2008	ARCHIVE- ARCHIVE	FMN CPWG
OGC GeoPackage Encoding Standard V1.0.	OGC 12-128r10:2004	ARCHIVE- ARCHIVE	NCIA/AWG
Scalable Vector Graphics (SVG) 1.1 Specification (Second Edition)	W3C REC-SVG11-20110816:2011	ARCHIVE- ARCHIVE	NATO Archive Committee
Extensible Markup Language (XML) version 1.1 (Second Edition)	W3C REC-xml11-20060816:2006	ARCHIVE- ARCHIVE	NCIA/CES
XML Schema Definition Language (XSD) 1.1 Part 1: Structures	W3C REC-xmlschema11-1-20120401:2012	ARCHIVE- ARCHIVE	NATO Archive Committee
XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes	W3C REC-xmlschema11-2-20120401:2012	ARCHIVE- ARCHIVE	NATO Archive Committee
<b>Data Science Services</b>			
Predictive Model Markup Language (PMML)	DMG PMML-4.2.1:2015	BSP	NCIA
Cross.Industry Standard Process for Data Mining	TMA crisp-dm-1.0:2000	BSP	NCIA
SPARQL 1.1 Query Language	W3C PR-sparql11-query-20121108:2012	BSP	NCIA
<b>Platform Services</b>			
Representational State Transfer (REST)	ACM 2002-REST-TOIT:2000	BSP	FMN CPWG
Atom Publishing Protocol	IETF RFC 5023:2007	BSP	FMN CPWG
Information technology - Distributed Application Platforms and Services (DAPS) - General technical principles of Service Oriented Architecture	ISO/IEC 30102:2012	BSP	NCIA/CES
ebXML Registry Information Model Version 3.0	OASIS regrep-rim-3.0-os:2005	BSP	NCIA/CES
Simple Object Access Protocol (SOAP)	W3C NOTE-SOAP-20000508:2000	BSP	NCIA
Web Services Addressing 1.0 - Metadata	W3C REC-ws-addr-metadata-20070904:2007	BSP	NCIA/CES

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<a href="#">Web Services Addressing 1.0 - SOAP Binding</a>	W3C REC-ws-addr-soap-20060509:2006	BSP	NCIA/CES
<b>Platform CIS Security Services</b>			
<a href="#">Digital Signature Algorithm RSA 2048</a>	RSA PKCS#1 v2.1:2002	BSP	NCIA/CS
<a href="#">XML Signature Syntax and Processing (2nd ed.):2008</a>	W3C xmldsig-core:2008	BSP	NCIA/CES
<b>Platform Guard Services</b>			
<a href="#">Secure Shell (SSH)</a>	IETF RFC 4250:2006	BSP	C3B CaP4
<a href="#">Transport Layer Security (TLS)</a>	IETF RFC 5246:2008	BSP	C3B CaP4
<b>Security Token Services</b>			
<a href="#">The Kerberos v5 Simple Authentication and Security Layer (SASL) Mechanism</a>	IETF RFC 4752:2006	BSP	FMN CPWG
<a href="#">Internet X.509 Public Key Infrastructure Certificate and CRL Profile</a>	IETF RFC 5280:2008	BSP	FMN CPWG
<a href="#">Web Services Federation Language (WS-Federation) Version 1.2</a>	OASIS wsfed:2009	BSP	NCIA/CES
<a href="#">Web Services Policy 1.5 - Guidelines for Policy Assertion Authors</a>	W3C NOTE-ws-policy-guidelines-20071112:2007	BSP	NCIA/CS
<a href="#">Web Services Policy 1.5 - Primer</a>	W3C NOTE-ws-policy-primer-20071112:2007	BSP	NCIA/CS
<a href="#">Web Services Policy 1.5 - Framework</a>	W3C REC-ws-policy-20070904:2007	BSP	NCIA/CS
<b>Policy Decision Point Services</b>			
<a href="#">Biometrics Data, Interchange, Watchlisting and Reporting</a>	NATO AEDP-15 Ed A Ver 1:2013 / STANAG 4715 Ed 1	BSP	CNAD, AC/224 NAFAG, JCGISR
<b>Information Labeling Services</b>			
<a href="#">XMP Specification Part 3, Storage in Files</a>	ADOBE XMP-part3-2016:2016	BINDING-EXTENSIBLE-	NCIA

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		V2, BINDING-METADATA	
<a href="#">HMAC: Keyed-Hashing for Message Authentication</a>	IETF RFC 2104:1997	BINDING-CRYPTO-V2	NCIA
<a href="#">Key words for use in RFCs to Indicate Requirement Levels</a>	IETF RFC 2119:1997	BINDING-COMMON-XML	NCIA
<a href="#">MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations</a>	IETF RFC 2231:1997	BINDING-REST-V2, BINDING-SMTP-V2	NCIA
<a href="#">Content-ID and Message-ID Uniform Resource Locators</a>	IETF RFC 2392:1998	BINDING-SMTP-V2	NCIA/CES
<a href="#">Enhanced Security Services for S/MIME</a>	IETF RFC 2634:1999	BINDING-XMPP-V2	NCIA
<a href="#">Internet X.509 Public Key Infrastructure Certificate and CRL Profile</a>	IETF RFC 5280:2008	BINDING-CRYPTO-V2	FMN CPWG
<a href="#">Internet Message Format</a>	IETF RFC 5322:2008	BINDING-SMTP-V2	NCIA
<a href="#">Extensible Provisioning Protocol (EPP) Domain Name Mapping</a>	IETF RFC 5731:2009	BINDING-SMTP-V2	NCIA
<a href="#">Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification</a>	IETF RFC 5751:2010	BINDING-CRYPTO-V2	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Core</a>	IETF RFC 6120:2011	BINDING-XMPP-V2	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence</a>	IETF RFC 6121:2011	BINDING-XMPP-V2	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Address Format</a>	IETF RFC 6122:2011	BINDING-XMPP-V2	NCIA
<a href="#">Additional XML Security Uniform Resource Identifiers (URIs)</a>	IETF RFC 6931:2013	BINDING-CRYPTO-V2	NCIA
<a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a>	IETF RFC 7230:2014	BINDING-REST-V2	NCIA/CES

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Security Labels in Internet Email	IETF RFC 7444:2015	BINDING-REST-V2, BINDING-SMTP-V2	NCIA
JSON Web Signature (JWS)	IETF RFC 7515:2015	BINDING-CRYPTO-V2	NCIA
Graphic Technology - Extensible metadata platform (XMP) specification - Part 1: Data model, serialization and core properties	ISO 16684-1:2012	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA
Information Technology - Document Schema Definition Languages (DSDL) - Part 3: Rules-based validation - Schematron Second Edition	ISO 19757-3:2016	BINDING-COMMON-XML	NCIA
Office Open XML File Formats -- Part 2: Open Packaging Conventions	ISO/IEC 29500-2:2012	BINDING-GENERIC-V2, BINDING-OOXML-V2	NCIA
Information Technology - Security Techniques - Security information objects for access control	ITU-T X.841:2000	BINDING-REST-V2	NCIA
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	BINDING-COMMON-XML, BINDING-CRYPTO-V2, BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2, BINDING-METADATA, BINDING-OOXML-V2, BINDING-REST-V2, BINDING-SIDECAR-V2, BINDING-	C3B CaP1 DM CaT

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		SMTP-V2, BINDING-SOAP, BINDING-WSMP-V2, BINDING-XMPP-V2	
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING-COMMON-XML, BINDING-CRYPTO-V2, BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2, BINDING-METADATA, BINDING-OOXML-V2, BINDING-REST-V2, BINDING-SIDECAR-V2, BINDING-SMTP-V2, BINDING-SOAP, BINDING-WSMP-V2, BINDING-XMPP-V2	C3B CaP1 DM CaT
Context/value Association using genericcode 1.0	OASIS context-value- association-1.0:2010	BINDING-COMMON-XML	NCIA
Code List Representation (Genericcode)	OASIS cs- genericcode-1.0:2007	BINDING-COMMON-XML	NCIA
Web Services Security: SOAP Message Security 1.1	OASIS wss-v1.1- spec-os- SOAPMessageSecurity:2006	BINDING-CRYPTO-V2	NCIA/CES

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Simple Object Access Protocol (SOAP)	W3C NOTE-SOAP-20000508:2000	BINDING-SOAP	NCIA
XML Security Algorithm Cross-Reference	W3C NOTE-xmlsec-algorithms-20130411:2013	BINDING-CRYPTO-V2	NCIA
RDF 1.1 Concepts and Abstract Syntax	W3C REC-rdf11-concepts-20140225:2014	BINDING-EXTENSIBLE-V2	NCIA/CES
RDF Primer	W3C REC-rdf-primer-20040210:2004	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA
SOAP Version 1.2 Part 1: Messaging Framework	W3C REC-soap12-part1-20030624:2003	BINDING-SOAP	NCIA
Associating Style Sheets with XML documents, Version 1.0	W3C REC-xmlstylesheet-19990629:1999	BINDING-COMMON-XML	NCIA/CES
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	BINDING-EXTENSIBLE-V2	FMN CPWG
XML-Signature Syntax and Processing (Second Edition)	W3C REC-xmlsig-core-20080610:2008	BINDING-CRYPTO-V2, BINDING-SOAP	NCIA
Errata for XML Signature 2nd Edition	W3C REC-xmlsig-core-20080610:2014	BINDING-CRYPTO-V2	NCIA
XML Signature Syntax and Processing Version 1.1	W3C REC-xmlsig-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML Encryption Syntax and Processing	W3C REC-xmlenc-core-20021210:2002	BINDING-CRYPTO-V2	NCIA
XML Encryption Syntax and Processing Version 1.1	W3C REC-xmlenc-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML Schema Definition Language (XSD) 1.1 Part 1: Structures	W3C REC-xmlschema11-1-20120405:2012	BINDING-COMMON-XML	NATO Archive Committee
XML Path Language 1.0	W3C REC-xpath-19991119:1999	BINDING-CRYPTO-V2	NCIA
XML Pointer Language (Xpointer)	W3C wd-xptr-20020816:2002	BINDING-CRYPTO-V2	NCIA

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Open XML SPIF	XML SPIF xmlspif:2010	BINDING- COMMON-XML	NCIA
XEP-0060: Publish-Subscribe	XMPP XEP-0060:2010	BINDING- XMPP-V2	NCIA
XEP-0258: Security Labels in XMPP	XMPP XEP-0258:2013	BINDING- XMPP-V2	NCIA
<b>Platform SMC Services</b>			
CIM Schema: Version 2.30.0	DMTF cim_schema_v2300:2011	BSP	C3B CaP1 SMC CaT
Configuration Management Database (CMDB) Federation Specification	DMTF DSP0252:2010	BSP	C3B CaP1 SMC CaT
IEEE QoS	IEEE 802.1p:2004	BSP	NCIA/NSII
Structure of Management Information	IETF RFC 1212:1991	BSP	NCIA/CES
Management Information Base v2 (MIB II)	IETF RFC 1213:1991	BSP	NCIA/SMC
Definitions of Managed Objects for the Ethernet-like Interface Types	IETF RFC 1643:1994	BSP	NCIA/NSII
RIP Version 2 MIB Extensions	IETF RFC 1724:1994	BSP	NCIA/SMC
Host Resources Management Information Base (MIB)	IETF RFC 2790:2000	BSP	NCIA/SMC
Remote Network Monitoring Management Information Base, RMON-MIB version 1	IETF RFC 2819:2000	BSP	NCIA/SMC
OSPF version 2 Management Information Base:2006	IETF RFC 4750:2006	BSP	NCIA/SMC
COBIT 5: A Business Framework for the Governance and Management of Enterprise IT	ISACA Cobit 5:2012	BSP	NCIA/Sstrat/ Sea
Performance objectives and procedures for provisioning and maintenance of IP-based networks	ITU-T M.2301:2002	BSP	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250:2016	FMN2	FMN CPWG
<b>Service Discovery Services</b>			



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
electronic business eXtensible Markup Language (ebXML) Technical Architecture Specification v1.0.4	EBXML ebTA:2001	BSP	NCIA/CES
TIDE Service Discovery	NATO TIDE/TIDE-ID-SP:2008	BSP	NCIA/CES
ebXML Registry Services and Protocols Version 3.0	OASIS regrep-rs-3.0-os:2005	BSP	NCIA/CES
Universal Description Discovery & Integration (UDDI)	OASIS uddi-v3.00-published-20020719:2002	BSP	NCIA/C2
Web Service Description Language (WSDL) 1.1	W3C NOTE-wsdl-20010315:2001	BSP	FMN CPWG
<b>Message-Oriented Middleware Services</b>			
Web Services Reliable Messaging (WS-ReliableMessaging)	OASIS relmes:2009	BSP	FMN CPWG
Web Services Security: SOAP Message Security 1.1	OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006	BSP	NCIA/CES
<b>Web Platform Services</b>			
FTP Security Extensions	IETF RFC 2228:1997	BSP	NCIA/CES
HyperText Transfer Protocol (HTTP), version 1.1	IETF RFC 2616:1999	BSP	FMN CPWG
Internationalization of the File Transfer Protocol	IETF RFC 2640:1999	BSP	NCIA/CES
Extensions to FTP	IETF RFC 3659:2007	BSP	NCIA/CES
Extended MKCOL for Web Distributed Authoring and Versioning (WebDAV)	IETF RFC 5689:2009	BSP	NCIA/CES
FTP Command and Extension Registry	IETF RFC 5797:2010	BSP	NCIA/CES
File Transfer Protocol HOST Command for Virtual Hosts	IETF RFC 7151:2014	BSP	NCIA/CES
Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing	IETF RFC 7230:2014	BSP	NCIA/CES



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Geolocation API Specification 2nd Edition	W3C geolocation-API:2016	SIP-FOR-WEB-APPS	FMN CPWG
HTML5 Differences from HTML4	W3C NOTE-html5-diff:2014	SIP-FOR-WEB-APPS	FMN CPWG
Cascading Style Sheets, level 2 revision 1	W3C REC-CSS2-2011067:2011	BSP	FMN CPWG
Hypertext Markup Language revision 5.2 (HTML5)	W3C REC-html52:2017	SIP-FOR-WEB-APPS	FMN CPWG
Hypertext Markup Language revision 5.3 Editor's Draft (4.7)	W3C REC-html53-Draft:2018	SIP-FOR-WEB-APPS	FMN CPWG
Media Source Extensions	W3C REC-media-source:2016	SIP-FOR-WEB-APPS	FMN CPWG
Mobile Web Application Best Practices	W3C REC-mwapp:2010	SIP-FOR-WEB-APPS	FMN CPWG
XML Information Set	W3C REC-xml-info:20011024:2001	BSP	NCIA/CES
Associating Style Sheets with XML documents, Version 1.0	W3C REC-xml-stylesheet-19990629:1999	BSP	NCIA/CES
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	BSP	FMN CPWG
XML Base	W3C REC-xmlbase-20010627:2001	BSP	NCIA/CES
Web Speech API	W3C speech-API:2018	SIP-FOR-WEB-APPS	FMN CPWG
DOM Parsing and Serialization	W3C WD-DOM-Parsing:2016	SIP-FOR-WEB-APPS	FMN CPWG
Wireless Markup Language (WML) version 2	WAPFORUM WAP-238-WML-20010911-a:2001	BSP	NCIA/CES
<b>Web Hosting Services</b>			
Uniform Resource Locators (URL)	IETF RFC 1738:1994	FMN1, FMN2, FMN3	FMN CPWG
The TLS Protocol Version 1.0	IETF RFC 2246:1999	SIP-FOR-TLS	FMN CPWG
HyperText Transfer Protocol (HTTP), version 1.1	IETF RFC 2616:1999	FMN1, FMN2	FMN CPWG

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Upgrading to TLS Within HTTP/1.1	IETF RFC 2817:2000	FMN1, FMN2, FMN3	FMN CPWG
The 'text/html' Media Type	IETF RFC 2854:2000	FMN1, FMN2, FMN3	FMN CPWG
UTF-8, a transformation format of ISO/IEC 10646	IETF RFC 3629:2003	FMN1, FMN2, FMN3	FMN CPWG
Transport Layer Security Protocol Compression Methods	IETF RFC 3749:2004	SIP-FOR-TLS	FMN CPWG
Uniform Resource Identifiers (URI): Generic Syntax	IETF RFC 3986:2005	FMN1, FMN2, FMN3	FMN CPWG
Atom Syndication Format, v1.0	IETF RFC 4287:2005	FMN1, FMN2, FMN3	FMN CPWG
Scripting Media Types	IETF RFC 4329:2006	FMN1, FMN2, FMN3	FMN CPWG
The Transport Layer Security (TLS) Protocol Version 1.1	IETF RFC 4346:2006	SIP-FOR-TLS	FMN CPWG
Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS)	IETF RFC 4492:2006	SIP-FOR-TLS	FMN CPWG
The application/json Media Type for JavaScript Object Notation (JSON)	IETF RFC 4627:2006	FMN1, FMN2, FMN3	FMN CPWG
Atom Publishing Protocol	IETF RFC 5023:2007	FMN1, FMN2, FMN3	FMN CPWG
Transport Layer Security (TLS)	IETF RFC 5246:2008	SIP-FOR-TLS	C3B CaP4
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Renegotiation Indication Extension	IETF RFC 5746:2010	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Extensions: Extension Definitions	IETF RFC 6066:2011	SIP-FOR-TLS	FMN CPWG
The Secure Sockets Layer (SSL) Protocol Version 3.0	IETF RFC 6101:2011	SIP-FOR-TLS	FMN CPWG
Representation and Verification of Domain-Based Application Service Identity within Internet Public Key Infrastructure Using X.509 (PKIX)	IETF RFC 6125:2011	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Certificates in the Context of Transport Layer Security (TLS)			
Prohibiting Secure Sockets Layer (SSL) Version 2.0	IETF RFC 6176:2011	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) Heartbeat Extension	IETF RFC 6520:2012	SIP-FOR-TLS	FMN CPWG
X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP	IETF RFC 6960:2013	SIP-FOR-TLS	FMN CPWG
The Transport Layer Security (TLS) Multiple Certificate Status Request Extension	IETF RFC 6961:2013	SIP-FOR-TLS	FMN CPWG
Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing	IETF RFC 7230:2014	FMN3	NCIA/CES
Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content	IETF RFC 7231:2014	FMN3	FMN CPWG
Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests	IETF RFC 7232:2014	FMN3	FMN CPWG
Hypertext Transfer Protocol (HTTP/1.1): Range Requests	IETF RFC 7233:2014	FMN3	FMN CPWG
Hypertext Transfer Protocol (HTTP/1.1): Caching	IETF RFC 7234:2014	FMN3	FMN CPWG
Hypertext Transfer Protocol (HTTP/1.1): Authentication	IETF RFC 7235:2014	FMN3	FMN CPWG
Encrypt-then-MAC for Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7366:2014	SIP-FOR-TLS	FMN CPWG
Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7525:2015	SIP-FOR-TLS	FMN CPWG
Deprecating Secure Sockets Layer Version 3.0	IETF RFC 7568:2015	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension	IETF RFC 7627:2015	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)	IETF RFC 7919:2016	SIP-FOR-TLS	FMN CPWG
Transmission Control Protocol	IETF RFC 793:1981	SIP-FOR-TLS	FMN CPWG
The SSL Protocol	IETF RFC SSL2:1995	SIP-FOR-TLS	FMN CPWG
Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)	ISO 19005-1:2005	FMN1, FMN2, FMN3	FMN CPWG
Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2)	ISO 19005-2:2011	FMN1, FMN2, FMN3	FMN CPWG
Document management -- Portable document format -- Part 1: PDF 1.7	ISO 32000-1:2008	FMN1, FMN2, FMN3	FMN CPWG
Digital compression and coding of continuous-tone still images: Requirements and guidelines	ISO/IEC 10918-1:1994	FMN1, FMN2, FMN3	FMN CPWG
Digital compression and coding of continuous-tone still images: Extensions	ISO/IEC 10918-3:1997	FMN1, FMN2, FMN3	FMN CPWG
HyperText Markup Language (HTML)	ISO/IEC 15445:2000	FMN1	FMN CPWG
Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference	ISO/IEC 29500-1:2012	FMN1, FMN2, FMN3	FMN CPWG
The Directory: Public-key and attribute certificate frameworks	ISO/IEC 9594-8:2008	BSP	NCIA/CS
NATO Message Catalogue <sup>2</sup>	NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6	FMN3	MC, MCJSB, IERHWG
Captured Persons, Materiel And Documents - AJP-2.5(A)	NATO STANAG 2195 Ed 2:2007	FMN3	MC, MCJSB, JINT
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN3	FMN CPWG
NATO Secondary Imagery Format (NSIF) - AEDP-04 Edition 2	NATO STANAG 4545 Ed 2:2013	FMN3	CNAD, AC/224

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			NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format - AEDP-07 Edition 2	NATO STANAG 4607 Ed 3:2010	FMN3	FMN CPWG
NATO Digital Motion Imagery Standard - MISP-2015.1	NATO STANAG 4609 Ed 4:2016	FMN3	FMN CPWG
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard – AEDP-12 Edition A	NATO STANAG 4676 Ed 1:2014	FMN3	FMN CPWG
NATO standardization of measurement and signature intelligence (MASINT) Reporting - AEDP-16 Edition A	NATO STANAG (Study) 4716 Ed 1	FMN3	CNAD, AC/224 NAFAG, JCGISR
WS-SecurityPolicy 1.3	OASIS wsspol-1.3:2009	BSP	NCIA/CS
Geography Markup Language (GML) simple features profile Technical Note v 2.0	OGC 11-044:2011	FMN1, FMN2, FMN3	FMN CPWG
RSS 2.0 Specification	RSS 2.0:2009	FMN1, FMN2, FMN3	FMN CPWG
Trouble Ticket REST API Specification R14.5.1 Interface	TM-FORUM TMF621:2015	FMN2	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250:2016	FMN2	FMN CPWG
Web Services Addressing 1.0 - Core	W3C REC-ws-addr-core-20060509:2006	FMN1, FMN2, FMN3	FMN CPWG
Cross-Origin Resource Sharing	W3C CR-cors-20130129:2013	FMN1, FMN2, FMN3	FMN CPWG
CSS Style Attributes	W3C CR-css-style-attr-20101012:2010	FMN1	FMN CPWG
Simple Object Access Protocol (SOAP)	W3C NOTE-SOAP-20000508:2000	FMN1, FMN2, FMN3	NCIA
Web Service Description Language (WSDL) 1.1	W3C NOTE-wsdl-20010315:2001	FMN1, FMN2, FMN3	FMN CPWG

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Web Services Description Language (WSDL) Version 2.0 SOAP 1.1 Binding	W3C NOTE-wsdl20-soap11-binding-20070626:2007	FMN1, FMN2, FMN3	FMN CPWG
XHTML™ 1.0 in XML Schema	W3C note-xhtml1-schema-20020902:2002	FMN1, FMN2, FMN3	FMN CPWG
CSS Namespaces Module Level 3	W3C REC-css-namespaces-3-20140326:2014	FMN1, FMN2, FMN3	FMN CPWG
CSS Style Attributes	W3C REC-css-style-attr-20131107:2013	FMN2, FMN3	FMN CPWG
Cascading Style Sheets, level 2 revision 1	W3C REC-CSS2-2011067:2011	FMN1, FMN2, FMN3	FMN CPWG
CSS Color Module Level 3	W3C REC-css3-color-20110607:2011	FMN1, FMN2, FMN3	FMN CPWG
Media Queries	W3C REC-css3-mediaqueries-20120619:2012	FMN1, FMN2, FMN3	FMN CPWG
Selectors Level 3	W3C REC-css3-selectors-20110929:2011	FMN1, FMN2, FMN3	FMN CPWG
Hypertext Markup Language revision 5 (HTML5)	W3C REC-html5-20141028:2014	FMN1, FMN2, FMN3	FMN CPWG
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	FMN1, FMN2, FMN3	FMN CPWG
XML Schema Part 1: Structures Second Edition	W3C REC-xmlschema-1-20041028:2004	FMN1, FMN2, FMN3	FMN CPWG
XML Schema Part 2: Datatypes Second Edition	W3C REC-xmlschema-2-20041028:2004	FMN1, FMN2, FMN3	FMN CPWG
XML Key Management Specification:2005	W3C xkms2:2005	BSP	NCIA/CES
<b>Web Presentation Services</b>			
Web Services for Remote Portlets Specification	OASIS wsrp-specification-1.0:2003	BSP	NCIA/CES
<b>Information Access Services</b>			
MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations	IETF RFC 2231:1997	BINDING-REST-V2	NCIA
Atom Syndication Format, v1.0	IETF RFC 4287:2005	BSP	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a>	IETF RFC 7230:2014	BINDING-REST-V2	NCIA/CES
<a href="#">Security Labels in Internet Email</a>	IETF RFC 7444:2015	BINDING-REST-V2	NCIA
<a href="#">Information Technology - Security Techniques - Security information objects for access control</a>	ITU-T X.841:2000	BINDING-REST-V2	NCIA
<a href="#">Confidentiality Metadata Label Syntax - ADatP-4774 Edition A</a>	NATO STANAG 4774 Ed 1:2017	BINDING-REST-V2, BINDING-SOAP	C3B CaP1 DM CaT
<a href="#">Metadata Binding - ADatP-4778 Edition A</a>	NATO STANAG 4778 Ed 1:2018	BINDING-REST-V2, BINDING-SOAP	C3B CaP1 DM CaT
<a href="#">RSS 2.0 Specification</a>	RSS 2.0:2009	BSP	FMN CPWG
<a href="#">Simple Object Access Protocol (SOAP)</a>	W3C NOTE-SOAP-20000508:2000	BINDING-SOAP	NCIA
<a href="#">SOAP Version 1.2 Part 1: Messaging Framework</a>	W3C REC-soap12-part1-20030624:2003	BINDING-SOAP	NCIA
<a href="#">Extensible HyperText Markup Language, version 1</a>	W3C REC-xhtml1-20020801:2002	BSP	NCIA/CES
<a href="#">XML-Signature Syntax and Processing (Second Edition)</a>	W3C REC-xmlsig-core-20080610:2008	BINDING-SOAP	NCIA
<b>Metadata Repository Services</b>			
<a href="#">XML Signature Syntax and Processing (2nd ed.):2008</a>	W3C xmlsig-core:2008	BSP	NCIA/CES
<b>Information Annotation Services</b>			
<a href="#">XMP Specification Part 3, Storage in Files</a>	ADOBE XMP-part3-2016:2016	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA
<a href="#">HMAC: Keyed-Hashing for Message Authentication</a>	IETF RFC 2104:1997	BINDING-CRYPTO-V2	NCIA
<a href="#">Key words for use in RFCs to Indicate Requirement Levels</a>	IETF RFC 2119:1997	BINDING-COMMON-XML	NCIA
<a href="#">MIME Parameter Value and Encoded Word Extensions:</a>	IETF RFC 2231:1997	BINDING-REST-V2,	NCIA



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Character Sets, Languages, and Continuations		BINDING-SMTP-V2	
Content-ID and Message-ID Uniform Resource Locators	IETF RFC 2392:1998	BINDING-SMTP-V2	NCIA/CES
Enhanced Security Services for S/MIME	IETF RFC 2634:1999	BINDING-XMPP-V2	NCIA
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	BINDING-CRYPTO-V2	FMN CPWG
Internet Message Format	IETF RFC 5322:2008	BINDING-SMTP-V2	NCIA
Extensible Provisioning Protocol (EPP) Domain Name Mapping	IETF RFC 5731:2009	BINDING-SMTP-V2	NCIA
Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification	IETF RFC 5751:2010	BINDING-CRYPTO-V2	NCIA
Extensible Messaging and Presence Protocol (XMPP): Core	IETF RFC 6120:2011	BINDING-XMPP-V2	NCIA
Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence	IETF RFC 6121:2011	BINDING-XMPP-V2	NCIA
Extensible Messaging and Presence Protocol (XMPP): Address Format	IETF RFC 6122:2011	BINDING-XMPP-V2	NCIA
Additional XML Security Uniform Resource Identifiers (URIs)	IETF RFC 6931:2013	BINDING-CRYPTO-V2	NCIA
Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing	IETF RFC 7230:2014	BINDING-REST-V2	NCIA/CES
Security Labels in Internet Email	IETF RFC 7444:2015	BINDING-REST-V2, BINDING-SMTP-V2	NCIA
JSON Web Signature (JWS)	IETF RFC 7515:2015	BINDING-CRYPTO-V2	NCIA
Graphic Technology - Extensible metadata platform (XMP) specification - Part 1: Data model, serialization and core properties	ISO 16684-1:2012	BINDING-EXTENSIBLE-V2, BINDING-METADATA	NCIA



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Information Technology - Document Schema Definition Languages (DSDL) - Part 3: Rules-based validation - Schematron Second Edition	ISO 19757-3:2016	BINDING-COMMON-XML	NCIA
Office Open XML File Formats -- Part 2: Open Packaging Conventions	ISO/IEC 29500-2:2012	BINDING-GENERIC-V2, BINDING-OOXML-V2	NCIA
Information Technology - Security Techniques - Security information objects for access control	ITU-T X.841:2000	BINDING-REST-V2	NCIA
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	BINDING-COMMON-XML, BINDING-CRYPTO-V2, BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2, BINDING-METADATA, BINDING-OOXML-V2, BINDING-REST-V2, BINDING-SIDECAR-V2, BINDING-SMTP-V2, BINDING-SOAP, BINDING-WSMP-V2, BINDING-XMPP-V2	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING-COMMON-XML, BINDING-	C3B CaP1 DM CaT

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		CRYPTO-V2, BINDING- EXTENSIBLE- V2, BINDING- GENERIC-V2, BINDING- METADATA, BINDING- OOXML-V2, BINDING- REST-V2, BINDING- SIDECAR-V2, BINDING- SMTP-V2, BINDING- SOAP, BINDING- WSMP-V2, BINDING- XMPP-V2	
Context/value Association using genericcode 1.0	OASIS context-value- association-1.0:2010	BINDING- COMMON-XML	NCIA
Code List Representation (Genericcode)	OASIS cs- genericcode-1.0:2007	BINDING- COMMON-XML	NCIA
Web Services Security: SOAP Message Security 1.1	OASIS wss-v1.1- spec-os- SOAPMessageSecurity:2006	BINDING- CRYPTO-V2	NCIA/CES
Simple Object Access Protocol (SOAP)	W3C NOTE- SOAP-20000508:2000	BINDING-SOAP	NCIA
XML Security Algorithm Cross- Reference	W3C NOTE-xmlsec- algorithms-20130411:2013	BINDING- CRYPTO-V2	NCIA
RDF 1.1 Concepts and Abstract Syntax	W3C REC-rdf11- concepts-20140225:2014	BINDING- EXTENSIBLE- V2	NCIA/CES
RDF Primer	W3C REC-rdf- primer-20040210:2004	BINDING- EXTENSIBLE- V2, BINDING- METADATA	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
SOAP Version 1.2 Part 1: Messaging Framework	W3C REC-soap12-part1-20030624:2003	BINDING-SOAP	NCIA
Associating Style Sheets with XML documents, Version 1.0	W3C REC-xmlstylesheet-19990629:1999	BINDING-COMMON-XML	NCIA/CES
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	BINDING-EXTENSIBLE-V2	FMN CPWG
XML-Signature Syntax and Processing (Second Edition)	W3C REC-xmlsig-core-20080610:2008	BINDING-CRYPTO-V2, BINDING-SOAP	NCIA
Errata for XML Signature 2nd Edition	W3C REC-xmlsig-core-20080610:2014	BINDING-CRYPTO-V2	NCIA
XML Signature Syntax and Processing Version 1.1	W3C REC-xmlsig-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML Encryption Syntax and Processing	W3C REC-xmlenc-core-20021210:2002	BINDING-CRYPTO-V2	NCIA
XML Encryption Syntax and Processing Version 1.1	W3C REC-xmlenc-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML Schema Definition Language (XSD) 1.1 Part 1: Structures	W3C REC-xmlschema11-1-20120405:2012	BINDING-COMMON-XML	NATO Archive Committee
XML Path Language 1.0	W3C REC-xpath-19991119:1999	BINDING-CRYPTO-V2	NCIA
XML Pointer Language (Xpointer)	W3C wd-xptr-20020816:2002	BINDING-CRYPTO-V2	NCIA
Open XML SPIF	XML SPIF xmlspif:2010	BINDING-COMMON-XML	NCIA
XEP-0060: Publish-Subscribe	XMPP XEP-0060:2010	BINDING-XMPP-V2	NCIA
XEP-0258: Security Labels in XMPP	XMPP XEP-0258:2013	BINDING-XMPP-V2	NCIA
<b>Directory Services</b>			
Common Directory Services and Procedures	CCEB ACP 133(C):2007	BSP	C3B NACP CaT
Definition of the inetOrgPerson LDAP Object Class	IETF RFC 2798:2000	FMN1, FMN2, FMN3	FMN CPWG

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LDAP Data Interchange Format (LDIF)	IETF RFC 2849:2000	FMN1, FMN2	FMN CPWG
LDAP: Technical Specification Road Map	IETF RFC 4510:2006	FMN1, FMN2	FMN CPWG
LDAP: The Protocol	IETF RFC 4511:2006	FMN1, FMN2	FMN CPWG
LDAP: Directory Information Models	IETF RFC 4512:2006	FMN1, FMN2	FMN CPWG
LDAP: Authentication Methods and Security Mechanisms	IETF RFC 4513:2006	FMN1, FMN2	FMN CPWG
LDAP: String Representation of Distinguished Names	IETF RFC 4514:2006	FMN1, FMN2	FMN CPWG
LDAP: String Representation of Search Filters	IETF RFC 4515:2006	FMN1, FMN2	FMN CPWG
LDAP: Uniform Resource Locator	IETF RFC 4516:2006	FMN1, FMN2	FMN CPWG
LDAP: Syntaxes and Matching Rules	IETF RFC 4517:2006	FMN1, FMN2	FMN CPWG
LDAP: Internationalized String Preparation	IETF RFC 4518:2006	FMN1, FMN2	FMN CPWG
LDAP: Schema for User Applications	IETF RFC 4519:2006	FMN1, FMN2, FMN3	FMN CPWG
<b>Relational Database Services</b>			
Open Database Connectivity (ODBC) 3.8	Microsoft MSDN-ODBCPR:1996	BSP	NCIA/CES
Joint C3 Information Exchange Data Model (JC3IEDM)	NATO STANAG 5525 Ed 1:2007	BSP	C3B CaP1 DM CaT
<b>Mediation Services</b>			
Profile for the Use of S/MIME protocols Cryptographic Message Syntax (CMS) and Enhanced Security Services (ESS) for S/MIME	NATO STANAG 4631 Ed 1:2008	BSP	C3B CaP1
<b>Data Format Transformation Services</b>			
Key words for use in RFCs to Indicate Requirement Levels	IETF RFC 2119:1997	BINDING-COMMON-XML	NCIA
Information Technology - Document Schema Definition Languages (DSDL) - Part 3: Rules-based	ISO 19757-3:2016	BINDING-COMMON-XML	NCIA

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
validation - Schematron Second Edition			
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	BINDING-COMMON-XML	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING-COMMON-XML	C3B CaP1 DM CaT
Context/value Association using genericode 1.0	OASIS context-value-association-1.0:2010	BINDING-COMMON-XML	NCIA
Code List Representation (Genericode)	OASIS cs-genericode-1.0:2007	BINDING-COMMON-XML	NCIA
Associating Style Sheets with XML documents, Version 1.0	W3C REC-xml-stylesheet-19990629:19990629	BINDING-COMMON-XML	NCIA/CES
XML Schema Definition Language (XSD) 1.1 Part 1: Structures	W3C REC-xmlschema11-1-20120405:20120405	BINDING-COMMON-XML	NATO Archive Committee
Open XML SPIF	XML SPIF xmlspif:2010	BINDING-COMMON-XML	NCIA
<b>Infrastructure Services</b>			
RTP: A Transport Protocol for Real-Time Applications	IETF RFC 3550:2003	BSP	FMN CPWG
Network News Transfer Protocol (NNTP)	IETF RFC 3977:2006	BSP	NCIA/CES
Digital compression and coding of continuous-tone still images: Registration of JPEG profiles, SPIFF profiles, SPIFF tags, SPIFF colour spaces, APPn markers, SPIFF compression types and Registration Authorities (REGAUT)	ISO/IEC 10918-4:1999	BSP	NCIA/CES
Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s; PCM Part 3: audio	ISO/IEC 11172-3:1993	BSP	NCIA/NSII
Generic Coding of Moving Pictures and Associated Audio (MPEG-2)	ISO/IEC 13818:2000	BSP	NCIA/CES
Coding of Moving Pictures and Audio (MPEG-4)	ISO/IEC 14496:1999	BSP	NCIA/CES

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Open Virtualization Format (OVF) specification	ISO/IEC 17203:2017	BSP	NCIA/CES
Information Technology - Cloud Computing - Interoperability and Portability	ISO/IEC 19941:2017	BSP	NCIA/CES
Information technology - Distributed Application Platforms and Services (DAPS) - General technical principles of Service Oriented Architecture	ISO/IEC 30102:2012	BSP	NCIA/CES
7 kHz Audio-Coding within 64 kbit/s	ITU-T G.722:2012	BSP	FMN CPWG
Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP)	ITU-T G.729:2012	BSP	FMN CPWG
Video coding for low bit rate communication	ITU-T H.263:2005	BSP	FMN CPWG
Advanced video coding for generic audiovisual services	ITU-T H.264:2017	BSP	FMN CPWG
NATO Advanced Data Storage Interface (NADSI)	NATO AEDP-06 Ed B Ver 3:2014 / STANAG 4575 Ed 4	BSP	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format	NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3	BSP	FMN CPWG
Air Reconnaissance Primary Imagery Data Standard	NATO AEDP-09 Ed 1:2009 / STANAG 7023 Ed 4	BSP	CNAD, AC/224 NAFAG, JCGISR
Imagery Air Reconnaissance Tape Recorder Interface	NATO AEDP-11 Ed 1:2001 / STANAG 7024 Ed 2	BSP	CNAD, AC/224 NAFAG, JCGISR
US Motion Imagery Standards Board (MISB) - Motion Imaginary Standards Profile-2015.1	NATO NNSTD MISP-2015.1:2016 / STANAG 4609 Ed 4	BSP	FMN CPWG

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Exchange of Imagery	NATO STANAG 3764 Ed 6:2015	BSP	MC, MCJSB, JINT JISRP
Parameters and Coding Standards for 800 bps Digital Speech Encoder/Decoder	NATO STANAG 4479 Ed 1:2002	BSP	C3B CaP1 Blos Comms
NATO Standard ISR Library Interface (NSILI)	NATO STANAG 4559 Ed 3:2010	BSP	FMN CPWG
NATO Imagery Interpretability Rating Scale (NIIRS)	NATO STANAG 7194 Ed 1:2009	BSP	MC, MCJSB, JINT JISRP
X Window System, Version 11, release 7.5:2009	X-CONSORTIUM X11R7.5:2009	BSP	NCIA/CES
<b>Authentication Services</b>			
A summary of the X.500(96) User Schema for Use with LDAPv3	IETF RFC 2256:1997	FMN2, FMN3	FMN CPWG
Definition of the inetOrgPerson LDAP Object Class	IETF RFC 2798:2000	FMN2, FMN3	FMN CPWG
Uniform Resource Identifiers (URI): Generic Syntax	IETF RFC 3986:2005	FMN2, FMN3	FMN CPWG
The Kerberos Network Authentication Service (V5)	IETF RFC 4120:2005	FMN1	FMN CPWG
The Kerberos Version 5 Generic Security Service Application Program Interface (GSS-API) Mechanism: Version 2	IETF RFC 4121:2005	FMN1	FMN CPWG
Simple Authentication and Security Layer (SASL)	IETF RFC 4422:2006	FMN1	FMN CPWG
Anonymous Simple Authentication and Security Layer (SASL) Mechanism	IETF RFC 4505:2006	FMN1	FMN CPWG
LDAP: Schema for User Applications	IETF RFC 4519:2006	FMN2, FMN3	FMN CPWG
The PLAIN Simple Authentication and Security Layer (SASL) Mechanism	IETF RFC 4616:2006	FMN1	FMN CPWG



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The Kerberos v5 Simple Authentication and Security Layer (SASL) Mechanism	IETF RFC 4752:2006	FMN1	FMN CPWG
Internet Message Format	IETF RFC 5322:2008	FMN2, FMN3	NCIA
OASIS Security Services (SAML)	OASIS saml:2009	FMN2, FMN3	NCIA
<b>Digital Certificate Services</b>			
More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE)	IETF RFC 3526:2003	FMN2, FMN3	FMN CPWG
LDAP: X.509 Certificate Schema	IETF RFC 4523:2006	FMN1, FMN2, FMN3	FMN CPWG
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	FMN1, FMN2, FMN3	FMN CPWG
Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks	ITU-T X.509:2016	FMN1, FMN2, FMN3	FMN CPWG
Secure Hash Standard (SHS)	NIST FIPS PUB 180-4:2015	FMN2, FMN3	C3B CaP4
Digital Signature Standard (DSS)	NIST FIPS PUB 186-4:2013	FMN2, FMN3	FMN CPWG
Advanced Encryption Standard (AES)	NIST FIPS PUB 197:2001	FMN2, FMN3	FMN CPWG
Recommendation for Pair-Wise Key Establishment Schemes Using Discrete Logarithm Cryptography	NIST SP 800-56A Rev 2:2013	FMN2	FMN CPWG
Recommendation for Pair-Wise Key Establishment Schemes Using Discrete Logarithm Cryptography	NIST SP 800-56A Rev 3:2018	FMN3	FMN CPWG
Recommendation for Pair-Wise Key Establishment Schemes Using Integer Factorization Cryptography	NIST SP 800-56B Rev 1:2014	FMN2, FMN3	FMN CPWG
<b>Infrastructure Cryptography Services</b>			
HMAC: Keyed-Hashing for Message Authentication	IETF RFC 2104:1997	BINDING-CRYPTO-V2	NCIA



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	BINDING-CRYPTO-V2	FMN CPWG
Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification	IETF RFC 5751:2010	BINDING-CRYPTO-V2	NCIA
Additional XML Security Uniform Resource Identifiers (URIs)	IETF RFC 6931:2013	BINDING-CRYPTO-V2	NCIA
JSON Web Signature (JWS)	IETF RFC 7515:2015	BINDING-CRYPTO-V2	NCIA
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	BINDING-CRYPTO-V2	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	BINDING-CRYPTO-V2	C3B CaP1 DM CaT
Web Services Security: SOAP Message Security 1.1	OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006	BINDING-CRYPTO-V2	NCIA/CES
XML Security Algorithm Cross-Reference	W3C NOTE-xmlsec-algorithms-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML-Signature Syntax and Processing (Second Edition)	W3C REC-xmlsig-core-20080610:2008	BINDING-CRYPTO-V2	NCIA
Errata for XML Signature 2nd Edition	W3C REC-xmlsig-core-20080610:2014	BINDING-CRYPTO-V2	NCIA
XML Signature Syntax and Processing Version 1.1	W3C REC-xmlsig-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML Encryption Syntax and Processing	W3C REC-xmlenc-core-20021210:2002	BINDING-CRYPTO-V2	NCIA
XML Encryption Syntax and Processing Version 1.1	W3C REC-xmlenc-core1-20130411:2013	BINDING-CRYPTO-V2	NCIA
XML Path Language 1.0	W3C REC-xpath-19991119:1999	BINDING-CRYPTO-V2	NCIA
XML Pointer Language (Xpointer)	W3C wd-xptr-20020816:2002	BINDING-CRYPTO-V2	NCIA
<b>Infrastructure Processing Services</b>			
Open Virtualization Format Specification, v.2.0.1	DMTF DSP0243:2013	BSP	C3B CaP1

Title	Pubnum	Profiles	Responsible Party
X Window System, Version 11, release 7.5:2009	X-CONSORTIUM X11R7.5:2009	BSP	NCIA/CES
<b>Virtualized Processing Services</b>			
Open Virtualization Format (OVF) specification	ISO/IEC 17203:2017	BSP	NCIA/CES
<b>File System Storage Services</b>			
Data Protocols for Multimedia Conferencing	ITU-T T.120:2007	BSP	NCIA/NSII
<b>Domain Name Services</b>			
Domain names - concepts and facilities	IETF RFC 1034:1987	FMN1, FMN2, FMN3	FMN CPWG
Domain names - implementation and specification	IETF RFC 1035:1987	FMN1, FMN2, FMN3	FMN CPWG
Clarifications to the DNS Specification	IETF RFC 2181:1997	FMN1, FMN2, FMN3	FMN CPWG
A DNS RR for specifying the location of services (DNS SRV)	IETF RFC 2782:2000	FMN1, FMN2, FMN3	FMN CPWG
Distributing Authoritative Name Servers via Shared Unicast Addresses	IETF RFC 3258:2002	FMN2, FMN3	FMN CPWG
Operation of Anycast Services	IETF RFC 4786:2006	FMN2, FMN3	FMN CPWG
DNS Zone Transfer Protocol (AXFR)	IETF RFC 5936:2010	FMN2, FMN3	FMN CPWG
DNS Transport over TCP - Implementation Requirements	IETF RFC 5966:2010	FMN2, FMN3	FMN CPWG
Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services	IETF RFC 6382:2011	FMN2, FMN3	FMN CPWG
Extension Mechanisms for DNS (EDNS(0))	IETF RFC 6891:2013	FMN2, FMN3	FMN CPWG
Architectural Considerations of IP Anycast	IETF RFC 7094:2014	FMN2, FMN3	FMN CPWG
<b>Distributed Time Services</b>			
Precision Time Protocol (PTP)	IEEE 1588:2008	BSP	NCIA/NSII
Network Time Protocol (NTP)	IETF RFC 5905:2010	FMN1, FMN2, FMN3	FMN CPWG

Title	Pubnum	Profiles	Responsible Party
Standard-frequency and time-signal emissions. Annex 1: Coordinated universal time (UTC)	ITU-R TF 460-6:2002	FMN1, FMN2, FMN3	FMN CPWG
Working with Time Zones	W3C timezone:2005	BSP	NCIA/Sstrat/Sea

### 3.3.3. Communications Services

Title	Pubnum	Profiles	Responsible Party
<b>Communications Services</b>			
Interface standard for LC connectors with protective housings related to IEC 61076-3-106	IEC 61754-20-100:2012	BSP	FMN CPWG
Station and Media Access Control Connectivity Discovery	IEEE 802.1AB:2009	BSP	NCIA/NSII
Media Access Control (MAC) Bridges	IEEE 802.1D:2004	BSP	NCIA/NSII
Virtual Bridged Local Area Networks	IEEE 802.1Q:2005	BSP	NCIA/NSII
Rapid Reconfiguration of Spanning Tree	IEEE 802.1W:2002	BSP	NCIA/NSII
Single-mode fiber using 1,310 nm wavelength	IEEE 802.3-2012:2012	BSP	FMN CPWG
An Application of the BGP Community Attribute in Multi-Home Routing	IETF RFC 1998:1996	BSP	NCIA
A Flexible Method for Managing the Assignment of Bits of an IPv6 Address Block	IETF RFC 3531:2003	BSP	NCIA
Considerations for Internet group Management protocols (IGMP) and Multicast listener Discovery Snooping Switches	IETF RFC 4541:2006	BSP	NCIA
IPv6 Stateless Address Autoconfiguration	IETF RFC 4862:2007	BSP	NCIA
Generic cabling for customer premises	ISO/IEC 11801:2002	BSP	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Characteristics of a single-mode optical fibre and cable	ITU-T G.652:2016	BSP	FMN CPWG
Characteristics of a Robust, Non-Hopping Serial Tone Modulator/Demodulator For Severely Degraded HF Radio Links	NATO AComP-4415 Ed A Ver 1:2015 / STANAG 4415 Ed 2	BSP	C3B CaP1 Blos Comms
Multi-hop IP Networking with legacy UHF Radios: Mobile ad hoc relay Line of Sight Networking (MARLIN)	NATO AComP-4691 Ed A Ver 1:2016 / STANAG 4691 Ed 2	BSP	C3B CaP1 LOS Comms CaT
Have Quick	NATO STANAG 4246 Ed 3:2009	BSP	C3B CaP1 LOS Comms CaT
Characteristics of 1200/2400/ 3600 bps single tone modulators for HF Radio links	NATO STANAG 4285 Ed 1:1989	BSP	C3B CaP1 Blos Comms
Standards to Achieve Communication Between Single Channel Tactical Combat Net Radio Equipment and Frequency Hopping Radios Operating in the same VHF (30-108 MHz) Band	NATO STANAG 4292 Ed 2:1987	BSP	C3B CaP1 LOS Comms CaT
Saturn	NATO STANAG 4372 Ed 3:2008	BSP	C3B CaP1 LOS Comms CaT
Minimum Technical Equipment Standards For Naval HF Shore-to-Ship Broadcast Systems	NATO STANAG 4481 Ed 1:2002	BSP	C3B CaP1 Blos Comms
Characteristics of single tone modulators/demodulators for maritime HF radio links with 1240 Hz bandwidth	NATO STANAG 4529 Ed 1:1998	BSP	C3B CaP1 Blos Comms
Technical Standards for an Automatic Radio Control System (ARCS) for HF Communication Links	NATO STANAG 4538 Ed 1:2009	BSP	C3B CaP1 Blos Comms
Digital Interoperability between UHF communications terminals - Integrated Waveform (IWF)	NATO STANAG 4681 Ed 1:2015	BSP	C3B CaP1 SATCOM CaT

Title	Pubnum	Profiles	Responsible Party
Minimum Standards for Naval low Frequency (LF) Shore-to-Ship Surface Broadcast Systems	NATO STANAG 5065 Ed 1:1999	BSP	C3B CaP1 Blos Comms
Profile for HF radio data communications	NATO STANAG 5066 Ed 3:2015	BSP	C3B CaP1 Blos Comms
<b>Communications Access Services</b>			
System Segment Specification for the Multifunctional Information Distribution System (MIDS) Low-Volume Terminal and Ancillary Equipment, Rev. EG	CJCSM SSS-M-10001:2011	BSP	NCIA/NSII
Physical/electrical characteristics of hierarchical digital interfaces	ITU-T G.703:2001	BSP	NCIA/NSII
Interoperable Data Links for Imaging Systems	NATO AEDP-7085 Ed A Ver 1:2011 / STANAG 7085 Ed 3	BSP	CNAD, AC/224 NAFAG, JCGISR
Tactical Data Exchange - Link 1 (Point-to-Point)	NATO ATDLP-5.01 Ed A Ver 1:2015 / STANAG 5501 Ed 7	BSP	C3B CaP1 TDL CaT
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & II	NATO STANAG 4175 Ed 5:2014	BSP	C3B CaP1 TDL CaT
Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability	NATO STANAG 4586 Ed 3:2012	BSP	CNAD, AC/141 NNAG, JCGUAS
Tactical Data Exchange - Link 11/11B	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
NATO Improved Link Eleven (NILE) - Link 22	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
<b>Tactical Messaging Access Services</b>			
Call Sign Book for Ships	CCEB ACP 113(AD):2012	BSP	C3B NACP CaT
Information Assurance for Allied Communications and Information Systems	CCEB ACP 122(D):1982	BSP	C3B NACP CaT

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Instructions For The Life Cycle Management Of Allied Communications Publications (ACPS)	CCEB ACP 198(O):2018	BSP	C3B NACP CaT
Maritime And Mobile Tacticalwide Area Networking (MTWAN) In The Maritime Environment - Operating Guidance	CCEB ACP 200V1(D):2013	BSP	C3B NACP CaT
Maritime Tactical Wide Area Networking (MTWAN) Technical Instructions	CCEB ACP 200V2(C):2010	BSP	C3B NACP CaT
Maritime And Mobile Tactical Wide Area Networking (MTWAN) In The Maritime Environment - Technical Guidance	CCEB ACP 200V2(D):2015	BSP	C3B NACP CaT
Communications Instructions Internet Protocol (IP) Services	CCEB ACP 201(A):2017	BSP	C3B NACP CaT
Address Indicating Groups - Instructions and Assignments	NATO ACP 100NS-1(P):2009	BSP	C3B NACP CaT
NATO Routing Indicator Book, NATO Supplement-1	NATO ACP 117NS-1(R):2013	BSP	C3B NACP CaT
Handling of ATOMAL Information Within Classified Communications Centres, NATO Supplement-2	NATO ACP 122NS-2(A):1979	BSP	C3B NACP CaT
NATO Naval and Maritime Air Communications Instructions and Organisation	NATO ACP 176NS-1(F):2018	BSP	C3B NACP CaT
Instructions for the Life Cycle Management of Allied Communications Publications (ACPs) - General & NATO Supps	NATO ACP 198NS-1(G):2012	BSP	C3B NACP CaT
Tactical Data Exchange - Link 1 (Point-to-Point)	NATO ATDLP-5.01 Ed A Ver 1:2015 / STANAG 5501 Ed 7	BSP	C3B CaP1 TDL CaT
Standards for Interface of Data Links 1, 11, and 11B Through a Buffer	NATO ATDLP-6.01 Ed A Ver 1:2016 / STANAG 5601 Ed 7	BSP	C3B CaP1 TDL CaT

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & II	NATO STANAG 4175 Ed 5:2014	BSP	C3B CaP1 TDL CaT
NATO Multi-channel Tactical Digital Gateway - System Standards	NATO STANAG 4206 Ed 3:1999	BSP	C3B CaP1 N&S CaT
NATO Multi-channel Digital Gateway-Multiplex Group Framing Standards	NATO STANAG 4207 Ed 3:2000	BSP	C3B CaP1 N&S CaT
International Routing and Directory for Tactical Communications Systems	NATO STANAG 4214 Ed 2:2005	BSP	C3B CaP1 N&S CaT
The NATO Military Communications Directory System	NATO STANAG 5046 Ed 4:2015	BSP	C3B CaP1 N&S CaT
Tactical Data Exchange - Link 11/11B	NATO STANAG 5511 Ed 6:2008	BSP	C3B CaP1 TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP)	NATO STANAG 5518 Ed 1:2014	BSP	C3B CaP1 TDL CaT
NATO Improved Link Eleven (NILE) - Link 22	NATO STANAG 5522 Ed 2:2008	BSP	C3B CaP1 TDL CaT
Standards for Data Forwarding between Tactical Data Systems employing Link 11/11B, Link 16 and Link 22	NATO STANAG 5616 Ed 5:2011	BSP	C3B CaP1 TDL CaT
<b>Packet-based Access Services</b>			
Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks	ITU-T J.241:2005	BSP	FMN CPWG
IP packet transfer and availability performance parameters	ITU-T Y.1540:2016	BSP	FMN CPWG
Network performance objectives for IP-based services	ITU-T Y.1541:2011	BSP	FMN CPWG
Framework for achieving end-to-end IP performance objectives	ITU-T Y.1542:2010	BSP	FMN CPWG
<b>IPv4 Routed Access Services</b>			



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Host Extensions for IP Multicasting	IETF RFC 1112:1989	FMN1, FMN2, FMN3	FMN CPWG
BGP Communities Attribute	IETF RFC 1997:1996	FMN1, FMN2, FMN3	FMN CPWG
Administratively Scoped IP Multicast	IETF RFC 2365:1998	FMN1, FMN2, FMN3	FMN CPWG
Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	IETF RFC 2474:1998	FMN1, FMN2, FMN3	FMN CPWG
The Internet Multicast Address Allocation Architecture	IETF RFC 2908:2000	FMN1	FMN CPWG
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 3171:2001	FMN1	FMN CPWG
Internet Group Management Protocol, Version 3	IETF RFC 3376:2002	FMN1, FMN2, FMN3	FMN CPWG
Capabilities Advertisement with BGP-4	IETF RFC 3392:2002	FMN1	FMN CPWG
Multicast Source Discovery Protocol (MSDP)	IETF RFC 3618:2003	FMN1, FMN2, FMN3	FMN CPWG
Border Gateway Protocol 4 (BGP-4)	IETF RFC 4271:2006	FMN1, FMN2, FMN3	FMN CPWG
BGP Extended Communities Attribute	IETF RFC 4360:2006	FMN1, FMN2, FMN3	FMN CPWG
Configuration Guidelines for DiffServ Service Classes	IETF RFC 4594:2006	FMN1, FMN2, FMN3	FMN CPWG
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 4601:2006	FMN1	FMN CPWG
Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan	IETF RFC 4632:2006	FMN1, FMN2, FMN3	FMN CPWG
Multiprotocol Extensions for BGP-4	IETF RFC 4760:2007	FMN1, FMN2, FMN3	FMN CPWG
Operation of Anycast Services	IETF RFC 4786:2006	FMN2	FMN CPWG
The Generalized TTL Security Mechanism (GTSM)	IETF RFC 5082:2007	FMN2, FMN3	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Capabilities Advertisement with BGP-4	IETF RFC 5492:2009	FMN2, FMN3	FMN CPWG
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 5771:2010	FMN2, FMN3	FMN CPWG
Autonomous-System-Wide Unique BGP Identifier for BGP-4	IETF RFC 6286:2011	FMN2, FMN3	FMN CPWG
Overview of the Internet Multicast Addressing Architecture	IETF RFC 6308:2011	FMN2, FMN3	FMN CPWG
Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services	IETF RFC 6382:2011	FMN2	FMN CPWG
BGP Support for Four-Octet Autonomous System (AS) Number Space	IETF RFC 6793:2012	FMN2, FMN3	FMN CPWG
Architectural Considerations of IP Anycast	IETF RFC 7094:2014	FMN2	FMN CPWG
IANA Registries for BGP Extended Communities	IETF RFC 7153:2014	FMN2, FMN3	FMN CPWG
Revised Error Handling for BGP UPDATE Messages	IETF RFC 7606:2015	FMN2, FMN3	FMN CPWG
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 7761:2016	FMN2, FMN3	FMN CPWG
Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks	ITU-T J.241:2005	FMN1, FMN2, FMN3	FMN CPWG
Performance objectives and procedures for provisioning and maintenance of IP-based networks	ITU-T M.2301:2002	FMN1, FMN2, FMN3	FMN CPWG
IP packet transfer and availability performance parameters	ITU-T Y.1540:2016	FMN1, FMN2, FMN3	FMN CPWG
Network performance objectives for IP-based services	ITU-T Y.1541:2011	FMN1, FMN2, FMN3	FMN CPWG
Framework for achieving end-to-end IP performance objectives	ITU-T Y.1542:2010	FMN1, FMN2, FMN3	FMN CPWG

Title	Pubnum	Profiles	Responsible Party
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NATO STANAG 4711 Ed 1:2018	FMN3	C3B CaP1 N&S CaT
<b>Native Circuit-based Access Services</b>			
The NATO Military Communications Directory System	NATO STANAG 5046 Ed 4:2015	BSP	C3B CaP1 N&S CaT
<b>Voice Access Services</b>			
The 600 Bit/S, 1200 Bit/S AND 2400 Bit/S NATO Interoperable Narrow Band Voice Coder	NATO STANAG 4591 Ed 1:2008	BSP	C3B CaP1 N&S CaT
<b>Transport Services</b>			
PPP LCP Extensions	IETF RFC 1570:1994	BSP	NCIA/NSII
The Point-to-Point Protocol (PPP)	IETF RFC 1661:1994	BSP	NCIA/NSII
RIP Version 2 MIB Extensions	IETF RFC 1724:1994	BSP	NCIA/SMC
Application of the Border Gateway Protocol in the Internet	IETF RFC 1772:1995	BSP	FMN CPWG
Requirements for IP Version 4 Routers	IETF RFC 1812:1995	BSP	FMN CPWG
The PPP Multilink Protocol (MP)	IETF RFC 1990:1996	BSP	NCIA/NSII
BGP Communities Attribute	IETF RFC 1997:1996	BSP	FMN CPWG
ISO Transport Service on top of TCP (ITOT)	IETF RFC 2126:1997	BSP	NCIA/NSII
Resource ReSerVation Protocol (RSVP) -- Version 1 Functional Specification	IETF RFC 2205:1997	BSP	NCIA/NSII
OSPF Version 2 (STD-54)	IETF RFC 2328:1998	BSP	NCIA/NSII
RIP Version 2	IETF RFC 2453:1998	BSP	FMN CPWG
Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	IETF RFC 2474:1998	BSP	FMN CPWG
Traditional IP Network Address Translation (NAT)	IETF RFC 3022:2001	BSP	NCIA/NSII
Layer Two Tunnelling Protocol (L2TP) Differentiated Services Extension	IETF RFC 3308:2002	BSP	NCIA/NSII
IP Mobility Support for IPv4	IETF RFC 3344:2002	BSP	NCIA/NSII

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Multicast Source Discovery Protocol (MSDP)	IETF RFC 3618:2003	BSP	FMN CPWG
Virtual Router Redundancy Protocol	IETF RFC 3768:2004	BSP	NCIA/NSII
Encapsulating MPLS in IP or Generic Routing Encapsulation (GRE)	IETF RFC 4023:2005	BSP	NCIA/NSII
Border Gateway Protocol 4 (BGP-4)	IETF RFC 4271:2006	BSP	FMN CPWG
BGP Extended Communities Attribute	IETF RFC 4360:2006	BSP	FMN CPWG
Configuration Guidelines for DiffServ Service Classes	IETF RFC 4594:2006	BSP	FMN CPWG
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 4601:2006	BSP	FMN CPWG
Multiprotocol Extensions for BGP-4	IETF RFC 4760:2007	BSP	FMN CPWG
Capabilities Advertisement with BGP-4	IETF RFC 5492:2009	BSP	FMN CPWG
4-Octet AS Specific BGP Extended Community	IETF RFC 5668:2009	BSP	FMN CPWG
User Datagram Protocol (UDP)	IETF RFC 768:1980	BSP	NCIA/NSII
Intermediate System to Intermediate System intra-domain routing information exchange protocol for use in conjunction with the protocol for providing the connectionless-mode network service (ISO 8473)	ISO/IEC 10589:2002	BSP	NCIA/NSII
Microsoft Windows Sockets (Winsock) Version 2.2.2	Microsoft Winsock2Spec:1997	BSP	NCIA/CES
Networking Framework for All-IP Transport Services (NETIP)	NATO AComP-4731 Ed A Ver 1:2017 / STANAG 4731 Ed 1	BSP	C3B CaP1 N&S CaT
<b>Packet-based Transport Services</b>			
Interface standard for LC connectors with protective housings related to IEC 61076-3-106	IEC 61754-20-100:2012	FMN1, FMN2, FMN3	FMN CPWG
Single-mode fiber using 1,310 nm wavelength	IEEE 802.3-2012:2012	FMN1, FMN2	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
IEEE Standard for Ethernet	IEEE 802.3:2018	FMN3	FMN CPWG
IP Encapsulation within IP	IETF RFC 2003:1996	BSP	NCIA/NSII
Routing Information Protocol next generation for IPv6 (RIPng)	IETF RFC 2080:1997	FMN3	NCIA/NSII
Internet Group Management Protocol, Version 2	IETF RFC 2236:1997	BSP	NCIA/NSII
RIP Version 2	IETF RFC 2453:1998	FMN3	FMN CPWG
Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	IETF RFC 2474:1998	FMN1, FMN2, FMN3	FMN CPWG
Generic Routing Encapsulation (GRE)	IETF RFC 2784:2000	FMN1, FMN2, FMN3	FMN CPWG
Key and Sequence Number Extensions to GRE	IETF RFC 2890:2000	FMN1, FMN2	FMN CPWG
IANA Assigned Numbers	IETF RFC 3232:2002	BSP	NCIA/NSII
IP Encapsulating Security Payload (ESP)	IETF RFC 4303:2005	FMN1, FMN2, FMN3	FMN CPWG
Configuration Guidelines for DiffServ Service Classes	IETF RFC 4594:2006	FMN1, FMN2, FMN3	FMN CPWG
IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA)	IETF RFC 4754:2007	FMN2, FMN3	C3B CaP4
Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2	IETF RFC 5903:2010	FMN2, FMN3	FMN CPWG
Internet Key Exchange Protocol Version 2 (IKEv2)	IETF RFC 7296:2014	FMN3	FMN CPWG
Signature Authentication in the Internet Key Exchange Version 2 (IKEv2)	IETF RFC 7427:2015	FMN3	FMN CPWG
Generic Raw Public-Key Support for IKEv2	IETF RFC 7670:2016	FMN2, FMN3	FMN CPWG
Internet Protocol, version 4	IETF RFC 791:1981	BSP	NCIA/NSII
Ethernet Address Resolution Protocol	IETF RFC 826:1982	FMN1, FMN2, FMN3	NCIA/NSII

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Requirements for Internet Hosts - Communication Layers	IETF STD 89:1989	BSP	NCIA/NSII
Generic cabling for customer premises	ISO/IEC 11801:2002	FMN1, FMN2	FMN CPWG
Information technology -- Generic cabling for customer premises -- Part 1: General requirements	ISO/IEC 11801-1:2017	FMN3	FMN CPWG
Characteristics of a single-mode optical fibre and cable	ITU-T G.652:2016	FMN1, FMN2, FMN3	FMN CPWG
Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks	ITU-T J.241:2005	FMN1, FMN2, FMN3	FMN CPWG
Performance objectives and procedures for provisioning and maintenance of IP-based networks	ITU-T M.2301:2002	FMN1, FMN2, FMN3	FMN CPWG
IP packet transfer and availability performance parameters	ITU-T Y.1540:2016	FMN1, FMN2, FMN3	FMN CPWG
Network performance objectives for IP-based services	ITU-T Y.1541:2011	FMN1, FMN2, FMN3	FMN CPWG
Framework for achieving end-to-end IP performance objectives	ITU-T Y.1542:2010	FMN1, FMN2, FMN3	FMN CPWG
Standard for Gateway Multichannel Cable Link (Optical)	NATO STANAG 4290 Ed 1:2015	FMN1	C3B CaP1 N&S CaT
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NATO STANAG 4711 Ed 1:2018	FMN3	C3B CaP1 N&S CaT
<b>Circuit-based Transport Services</b>			
The NATO Military Communications Directory System	NATO STANAG 5046 Ed 4:2015	BSP	C3B CaP1 N&S CaT
<b>Packet Routing Services</b>			
Host Extensions for IP Multicasting	IETF RFC 1112:1989	FMN1, FMN2, FMN3	FMN CPWG
BGP Communities Attribute	IETF RFC 1997:1996	FMN1, FMN2, FMN3	FMN CPWG
Administratively Scoped IP Multicast	IETF RFC 2365:1998	FMN1, FMN2, FMN3	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
The Internet Multicast Address Allocation Architecture	IETF RFC 2908:2000	FMN1	FMN CPWG
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 3171:2001	FMN1	FMN CPWG
Internet Group Management Protocol, Version 3	IETF RFC 3376:2002	FMN1, FMN2, FMN3	FMN CPWG
Capabilities Advertisement with BGP-4	IETF RFC 3392:2002	FMN1	FMN CPWG
Multicast Source Discovery Protocol (MSDP)	IETF RFC 3618:2003	FMN1, FMN2, FMN3	FMN CPWG
Border Gateway Protocol 4 (BGP-4)	IETF RFC 4271:2006	FMN1, FMN2, FMN3	FMN CPWG
BGP Extended Communities Attribute	IETF RFC 4360:2006	FMN1, FMN2, FMN3	FMN CPWG
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 4601:2006	FMN1	FMN CPWG
Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan	IETF RFC 4632:2006	FMN1, FMN2, FMN3	FMN CPWG
Multiprotocol Extensions for BGP-4	IETF RFC 4760:2007	FMN1, FMN2, FMN3	FMN CPWG
Operation of Anycast Services	IETF RFC 4786:2006	FMN2	FMN CPWG
The Generalized TTL Security Mechanism (GTSM)	IETF RFC 5082:2007	FMN2, FMN3	FMN CPWG
Capabilities Advertisement with BGP-4	IETF RFC 5492:2009	FMN2, FMN3	FMN CPWG
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 5771:2010	FMN2, FMN3	FMN CPWG
Autonomous-System-Wide Unique BGP Identifier for BGP-4	IETF RFC 6286:2011	FMN2, FMN3	FMN CPWG
Overview of the Internet Multicast Addressing Architecture	IETF RFC 6308:2011	FMN2, FMN3	FMN CPWG
Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services	IETF RFC 6382:2011	FMN2	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
BGP Support for Four-Octet Autonomous System (AS) Number Space	IETF RFC 6793:2012	FMN2, FMN3	FMN CPWG
Architectural Considerations of IP Anycast	IETF RFC 7094:2014	FMN2	FMN CPWG
IANA Registries for BGP Extended Communities	IETF RFC 7153:2014	FMN2, FMN3	FMN CPWG
Revised Error Handling for BGP UPDATE Messages	IETF RFC 7606:2015	FMN2, FMN3	FMN CPWG
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 7761:2016	FMN2, FMN3	FMN CPWG
Standard for Interconnection of IPv4 Networks at Mission Secret and Unclassified Security Levels	NATO STANAG 5067 Ed 1:2015	BSP	C3B CaP1 N&S CaT
<b>Transmission Services</b>			
Generic Specification for Optical Waveguide Fibers	EIA TIA/ EIA-492000-A:1997	BSP	NCIA/NSII
VLF / LF MSK Multi Channel Broadcast	NATO AComP-4724 Ed A Ver 1:2015 / STANAG 4724 Ed 1	BSP	C3B CaP1 Blos Comms
Single and Multichannel VLF and LF On-Line Broadcast and Off-Line OOK Systems	NATO STANAG 5030 Ed 4:1995	BSP	C3B CaP1 Blos Comms
<b>Wired Transmission Services</b>			
Standard for optical connector medium-rate and high-rate military tactical link	NATO AComP-4290 Ed A Ver 2:2018 / STANAG 4290 Ed 2	BSP	C3B CaP1 N&S CaT
<b>Wired Local Area Transmission Services</b>			
Standard for optical connector medium-rate and high-rate military tactical link	NATO AComP-4290 Ed A Ver 2:2018 / STANAG 4290 Ed 2	BSP	C3B CaP1 N&S CaT
<b>Wired Metropolitan Area Transmission Services</b>			
Standard for optical connector medium-rate and high-rate military tactical link	NATO AComP-4290 Ed A Ver 2:2018 / STANAG 4290 Ed 2	BSP	C3B CaP1 N&S CaT
<b>Wired Wide Area Transmission Services</b>			



Title	Pubnum	Profiles	Responsible Party
Standard for optical connector medium-rate and high-rate military tactical link	NATO AComP-4290 Ed A Ver 2:2018 / STANAG 4290 Ed 2	BSP	C3B CaP1 N&S CaT
<b>Wireless LOS Mobile Transmission Services</b>			
Bluetooth 4.2	Bluetooth SIG bluetooth42:2014	BSP	NCIA/NSII
<b>Wireless LOS Mobile Narrowband Transmission Services</b>			
Technical standards for single channel UHF radio equipment	NATO AComP-4205 Ed A Ver 1:2018 / STANAG 4205 Ed 4	BSP	C3B CaP1 LOS Comms CaT
Technical standards for single channel HF radio equipment	NATO STANAG 4203 Ed 3:2007	BSP	C3B CaP1 Blos Comms
Technical standards for single channel VHF radio equipment	NATO STANAG 4204 Ed 3:2008	BSP	C3B CaP1 LOS Comms CaT
Overall Super High Frequency (SHF) Military Satellite Communications (MILSATCOM) Interoperability Standards	NATO STANAG 4484 Ed 3:2015	BSP	C3B CaP1 SATCOM CaT
<b>Wireless LOS Mobile Wideband Transmission Services</b>			
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & II	NATO STANAG 4175 Ed 5:2014	BSP	C3B CaP1 TDL CaT
<b>Wireless BLOS Static Wideband Transmission Services</b>			
Interoperability standard for Satellite Broadcast Services (SBS))	NATO STANAG 4622 Ed 1:2018	BSP	C3B CaP1 SATCOM CaT
<b>Wireless BLOS Mobile Transmission Services</b>			
Super High Frequency (SHF) Military Satellite Communications (MILSATCOM) Frequency Division Multiple Access (FDMA) Non-EPM Modem for Services Conforming to Class-B Of STANAG 4484	NATO AComP-4486 Ed A Ver 1:2016 / STANAG 4486 Ed 4	BSP	C3B CaP1 SATCOM CaT



Title	Pubnum	Profiles	Responsible Party
Digital interoperability between EHF Tactical Satellite Communications Terminals	NATO STANAG 4233 Ed 1:1998	BSP	C3B CaP1 SATCOM CaT
SHF Milsatcom Non-EPM Modem for Services Conforming to Class-A Of STANAG 4484	NATO STANAG 4485 Ed 2:2015	BSP	C3B CaP1 SATCOM CaT
Extremely High Frequency(EHF) Military Satellite Communications(MILSATCOM) Interoperability Standards for Medium Data Rate Services	NATO STANAG 4522 Ed 1:2006	BSP	C3B CaP1 SATCOM CaT
<b>Wireless BLOS Mobile Narrowband Transmission Services</b>			
Technical standards for single channel HF radio equipment	NATO STANAG 4203 Ed 3:2007	BSP	C3B CaP1 Blos Comms

### 3.3.4. Extended C3 Taxonomy

018. The following table list taxonomy nodes, which may be part of a future version of the C3 taxonomy. They are part of this document, because stakeholders have provided an unofficial classification scheme for a specific purpose.

#### 3.3.4.1. Directory Data Synchronization Services

Title	Pubnum	Profiles	Responsible Party
<b>Directory Data Synchronization Services</b>			
The TLS Protocol Version 1.0	IETF RFC 2246:1999	SIP-FOR-TLS	FMN CPWG
Transport Layer Security Protocol Compression Methods	IETF RFC 3749:2004	SIP-FOR-TLS	FMN CPWG
The Transport Layer Security (TLS) Protocol Version 1.1	IETF RFC 4346:2006	SIP-FOR-TLS	FMN CPWG
Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS)	IETF RFC 4492:2006	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS)	IETF RFC 5246:2008	SIP-FOR-TLS	C3B CaP4
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Transport Layer Security (TLS) Renegotiation Indication Extension	IETF RFC 5746:2010	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Extensions: Extension Definitions	IETF RFC 6066:2011	SIP-FOR-TLS	FMN CPWG
The Secure Sockets Layer (SSL) Protocol Version 3.0	IETF RFC 6101:2011	SIP-FOR-TLS	FMN CPWG
Representation and Verification of Domain-Based Application Service Identity within Internet Public Key Infrastructure Using X.509 (PKIX) Certificates in the Context of Transport Layer Security (TLS)	IETF RFC 6125:2011	SIP-FOR-TLS	FMN CPWG
Prohibiting Secure Sockets Layer (SSL) Version 2.0	IETF RFC 6176:2011	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) Heartbeat Extension	IETF RFC 6520:2012	SIP-FOR-TLS	FMN CPWG
X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP	IETF RFC 6960:2013	SIP-FOR-TLS	FMN CPWG
The Transport Layer Security (TLS) Multiple Certificate Status Request Extension	IETF RFC 6961:2013	SIP-FOR-TLS	FMN CPWG
Encrypt-then-MAC for Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7366:2014	SIP-FOR-TLS	FMN CPWG
Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)	IETF RFC 7525:2015	SIP-FOR-TLS	FMN CPWG
Deprecating Secure Sockets Layer Version 3.0	IETF RFC 7568:2015	SIP-FOR-TLS	FMN CPWG
Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension	IETF RFC 7627:2015	SIP-FOR-TLS	FMN CPWG
Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)	IETF RFC 7919:2016	SIP-FOR-TLS	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">Transmission Control Protocol</a>	IETF RFC 793:1981	SIP-FOR-TLS	FMN CPWG
<a href="#">The SSL Protocol</a>	IETF RFC SSL2:1995	SIP-FOR-TLS	FMN CPWG

### 3.3.4.2. Archive Profile

## 3.4. UN-ASSIGNED STANDARDS

019. The following standards have been declared mandatory standards for NATO common funded system. However, no information of how to map the standards to the C3 Taxonomy have been provided.

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## CHAPTER 4. AGREED PROFILES

### 4.1. INTRODUCTION

020. The NATO Interoperability Standards and Profiles include the set of Agreed Profiles listed below.

**Table 4.1. Agreed Profiles**

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
<b>Federated Mission Networking</b>	FMN Spiral 1.1 Profile
Defines the Standards Profile for Federated Mission Networking (FMN) Spiral 1. FMN Standards Profiles provide a suite of interoperability standards and other standardized profiles for interoperability of selected community of interest services, core services and communications services in a federation of mission networks. It places the required interoperability requirements, standards and specifications in context for FMN Affiliates.	
<a href="#">NISP-V2-FMN-spiral-1.pdf</a>	FMN1
<b>Federated Mission Networking</b>	FMN Spiral 2 Profile
This document defines the Standards Profile for Federated Mission Networking (FMN) Spiral 2. The FMN Standards Profiles provides a suite of interoperability standards and other standardized profiles for interoperability of selected community of interest services, core services and communications services in a federation of mission networks. It places the required interoperability requirements, standards and specifications in context for FMN Affiliates.	
<a href="#">FMN Spiral 2 Profile</a>	FMN2
<b>Federated Mission Networking</b>	FMN Spiral 3 Profile
This document defines the Standards Profile for Federated Mission Networking (FMN) Spiral 3. The FMN Standards Profiles provides a suite of interoperability standards and other standardized profiles for interoperability of selected community of interest services, core services and communications services in a federation of mission networks. It places the required interoperability requirements, standards and specifications in context for FMN Affiliates.	
<a href="#">FMN Spiral 3 Profile</a>	FMN3
<b>Architecture</b>	Profile for the Architecture development
This profile lists recommended standards for miscellaneous architecture related subjects.	
<a href="#">architecture-profile.pdf</a>	ARCHITECTURE

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
<b>Archive</b>	Profile for the Long Term Preservation of NATO Digital Information of Permanent value
Outlines the file formats and package structures approved by the Archives Committee for the long-term preservation of NATO digital information of permanent value.	
<a href="#">NISIP-V2-archive-profile.pdf</a>	ARCHIVE-ARCHIVE
<b>Security Services</b>	Service Interface Profile Security Services
This Service Interface Profile (SIP) describes the key elements that make up the NNEC Core Enterprise Services (CES) Security Services.	
<a href="#">AI_TECH_2016.06.02.01_SIP.pdf</a>	SIP-SEC
<b>REST Security Services</b>	Service Interface Profile For REST Security Services
This specification provides the profile for securing representational state transfer (REST) web services (known as RESTful web services) that are deployed within the NNEC web service infrastructure. It specifies security requirements that need to be accounted for depending on the environment in which the services are being deployed, and the level of assurance required for protecting those services. This profile covers the required security protection profile for a Client to access protected resources on a Resource Server using REST.	
<a href="#">AI_TECH_2016.06.02.02_SIP.pdf</a>	SIP-REST
<b>Security Token Services</b>	Service Interface Profile For Security Token Services
The purpose of this Service Interface Profile (SIP) is to specify how the security token service component of the Core Enterprise Services (CES) Security Services may be called.	
<a href="#">AI_TECH_2016.06.02.03_SIP.pdf</a>	SIP-TOKEN
<b>Policy Enforcement Points</b>	Service Interface Profile For Policy Enforcement Points
The purpose of this Service Interface Profile (SIP), which should be read along with the Agency Directive 06.05.04.02.H 2, "Service Interface Profile for Security Services" [NCIA AD 06.05.04.02.H], is to specify how services may be called that are protected by the Core Enterprise Services (CES) Security Services.	
<a href="#">AI_TECH_2016.06.02.04_SIP.pdf</a>	SIP-POLICY-ENFORCE
<b>Enterprise Directory Services</b>	Service Interface Profile For Enterprise Directory Services

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
The purpose of this Service Interface Profile (SIP) is to specify the interface of the directory service itself.	
<a href="#">AI_TECH_2016.06.02.05_SIP.pdf</a>	SIP-ENTR-DIR
<b>Messaging</b>	
Service Interface Profile For Messaging	
This specification provides the interface control for simple object access protocol (SOAP) web services that are deployed within the NNEC web service infrastructure.	
<a href="#">AI_TECH_2016.06.02.06_SIP.pdf</a>	SIP-MESG
<b>REST Messaging</b>	
Service Interface Profile For REST Messaging	
This specification provides the profile for securing representational state transfer (REST) web services (known as RESTful web services) that are deployed within the NNEC web service infrastructure. This covers only the call from a Web Service Consumer to a Web Service Provider using REST, and the response from the service provider. It includes how the message must be structured and the elements that must be contained within the call.	
<a href="#">AI_TECH_2016.06.02.07_SIP.pdf</a>	SIP-REST-MSG
<b>Publish-Subscribe Services</b>	
Service Interface Profile For Publish-Subscribe Services	
This document gives directives along with clarifications and amendments to the [OASIS WS-BaseNotification, 2006] and [OASIS WS-BrokeredNotification, 2006] specification on how to implement a notification broker/subscription manager to promote interoperability between the publish/subscribe engines and generic message subscribers. Some extensions to the protocol have been introduced in order to meet NATO requirements.	
<a href="#">AI_TECH_2016.06.02.08_SIP.pdf</a>	SIP-PUBSUB
<b>Publish-Subscribe Notification Broker With Subscription Manager</b>	
Service Interface Profile For Publish-Subscribe Notification Broker With Subscription Manager	
This document is part of a Service Interface Profile (SIP) for Publish/Subscribe Core Enterprise Services (CES) and should be read together with the main document [NCIA AD 06.05.04.02.E]. It gives guidance on implementation of a WS-Notification compliant notification broker. It is REQUIRED that each notification broker implementation also includes the subscription manager functionality.	
<a href="#">AI_TECH_2016.06.02.09_SIP.pdf</a>	SIP-PUBSUB-NOTIF-BROOKER
<b>Publish-Subscribe Notification Consumer</b>	
Service Interface Profile For Publish-Subscribe Notification Consumer	

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
This document is part of a Service Interface Profile (SIP) for publish/subscribe Core Enterprise Services (CES) and should be read together with the main document "Service Interface Profile for Publish/Subscribe Services" [NCIA AD 06.05.04.02.E]. It gives guidance on implementation of a WS-Notification-compliant notification consumer.	
<a href="#">AI_TECH_2016.06.02.10_SIP.pdf</a>	SIP-PUBSUB-NOTIF-CONSUMER
<b>A Notification Cache Service</b>	Service Interface Profile For A Notification Cache Service
This Service Interface Profile (SIP) describes the key elements that make up the NNEC Core Enterprise Services (CES) Notification Cache service. It describes and profiles the operations which a Notification Cache service offers together with the associated message formats, and serves as a template and guideline for implementations.	
<a href="#">AI_TECH_2016.06.02.11_SIP.pdf</a>	SIP-NOTIF-CACHE
<b>Basic Collaboration Services</b>	Service Interface Profile For Basic Collaboration Services
This Collaboration Service Interface Profile (SIP) is focused on instant messaging and is based on the extensible messaging and presence protocol (XMPP).	
<a href="#">AI_TECH_2016.06.02.12_SIP.pdf</a>	SIP-BCS
<b>Core And Advanced Instant Messaging Collaboration Services</b>	Service Interface Profile For Core And Advanced Instant Messaging Collaboration Services
This document specifies the Service Interface Profile (SIP) for a number of instant messaging services that can be implemented and used by any XMPP entity (XMPP Client or XMPP Server) on the XMPP network.	
<a href="#">AI_TECH_2016.06.02.13_SIP.pdf</a>	SIP-MESG-COL-SERV
<b>Geospatial Services – Map Rendering Service</b>	Service Interface Profile For Geospatial Services – Map Rendering Service
This document gives guidance on the implementation of a Map Rendering Service, being a special kind of a Geospatial Service.	
<a href="#">AI_TECH_2016.06.02.14_SIP.pdf</a>	SIP-GEO-MRS
<b>Recognized Air Picture Data Services</b>	Service Interface Profile for Recognized Air Picture Data
This Service Interface Profile provides detailed information, guidance, instructions, standards and criteria to define the minimum set of data elements that are required to be	



Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
available for operational or technical reasons so that correctly formatted technical message can be generated to establish a Recognized Air Picture in a federated environment.	
<a href="#">FMN Spiral 3 Profile including SIP for RAPD</a>	SIP-RECOGNIZED-AIR-PICTURE-DATA
<b>Service Management Services</b>	Service Interface Profile for Service Management and Control
This Service Interface Profile provides guidance and technical details to the procedures, supporting services, infrastructure and data attributes required to implement Service Management and Control (SMC) services in Mission Networks. As such, this document contributes to the establishment of capabilities in support of Federated Mission Networking (FMN) as an affordable, effective and efficient means to enable sharing of information in a coalition environment.	
<a href="#">FMN Spiral 3 Profile including SIP for SMC</a>	SIP-FOR-SMC
<b>Transport Layer Security</b>	Service Interface Profile for Transport Layer Security
This Service Interface Profile (SIP) provides detailed information, guidance, instructions, standards and criteria to be used as a for the usage of Transport Layer Security (TLS) protocol to provide authentication, confidentiality and integrity services for protecting the communication between a consumer and a provider. This publication is a living document and will be periodically reviewed and updated to reflect technology developments, emerging best practices, evolving standards and new or deprecated cryptographic schemes and algorithms.	
<a href="#">FMN Spiral 3 Profile including SIP for TLS</a>	SIP-FOR-TLS
<b>Web Applications</b>	Service Interface Profile for Web Applications
This Service Interface Profile (SIP) provides detailed information, guidance, instructions, standards and criteria to be used for development, delivery and consumption of Web applications and dynamic Web sites. This publication is a living document and will be periodically reviewed and updated to reflect technology developments and emerging best practices.	
<a href="#">FMN Spiral 3 Profile including SIP for Web Apps</a>	SIP-FOR-WEB-APPS
<b>Cryptographic Services</b>	Cryptographic Artefact Binding Profiles

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
Profile the use of cryptographic protocols, which can be used to implement support for different cryptographic techniques and mechanisms, for generating cryptographic artefacts to be stored in a cryptographic binding.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex A	BINDING-CRYPTO-V2
<b>Informal Messaging Services</b>	Simple Mail Transfer Protocol (SMTP) Binding Profile
This profile specifies the mechanism for binding metadata to Internet Email (both formal and informal) including MIME entities.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex B	BINDING-SMTP-V2
<b>XMPP Services</b>	Extensible Message and Presence Protocol (XMPP) Binding Profile
Confidentiality metadata labels can be supported in XMPP stanzas as indicated by XEP-0258 whereby a mechanism for carrying Enhanced Security Services (ESS) Security labels is standardized. This profile extends the XEP-0258 specification to support carrying an Embedded or Detached BDO for Message stanzas. This profile supports the XMPP use cases for one-to-one instant messaging and multi-user chat.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex C	BINDING-XMPP-V2
<b>Metadata Services</b>	Office Open XML (OOXML) Formats Binding Profile
This profile for the OOXML describes how metadata can be maintained.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex D	BINDING-OOXML-V2
<b>SOAP Services</b>	Simple Object Access Protocol (SOAP) Profile
This profilesupports for both SOAP 1.1 and SOAP 1.2. To support information sharing between partners it may be necessary to locate a Binding Data Object (BDO) in the SOAP protocol layer. Metadata may be bound to the whole data object (SOAP message) or may be bound to subsets of the SOAP message (data object(s) in the SOAP body). In an environment where data objects must have bound metadata, the resource identified in the URI will already contain a BDO (detached, encapsulating or embedded).	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex E	BINDING-SOAP

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
<b>REST Services</b>	Representational State Transfer (REST) Profile
In an environment where data objects must have bound metadata, the resource identified in the URI will already contain a BDO (detached, encapsulating or embedded). As such, there is no requirement for metadata binding that is specific for REST. However, to support information sharing between partners it may be necessary to locate a Binding Data Object (BDO) in the HTTP protocol layer.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex F	BINDING-REST-V2
<b>Generic Packaging Services</b>	Generic Open Packaging Convention (OPC) Binding Profile
This profile defines a generic packaging mechanism, based upon the Open Packaging Container (OPC) defined in ISO/IEC 29500-2:2008, to associate any arbitrary file that do not use the Office Open XML (OOXML) format or have no specific profile for supporting the Binding Information with their own file format.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex G	BINDING-GENERIC-V2
<b>Sidecar Services</b>	Sidecar Files Binding Profile
Sidecar files allow the association of metadata with a data object for which there is no profile.	
<a href="#">Sidecar_Files_Binding_Profilev1.0.pdf</a> - Annex H	BINDING-SIDECAR-V2
<b>XMP Services</b>	Extensible Metadata Platform (XMP) Binding Profile
This Binding Profile for XMP describes how metadata should be incorporated within an XMP packet as a structured value.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex I	BINDING-EXTENSIBLE-V2
<b>WSMP Services</b>	Web Service Messaging Profile (WSMP) Profile
The Web Service Messaging Profile (WSMP) defines a set of service profiles to exchange arbitrary XML-based messages. WSMP is extensible and may be used by any Community of Interest (COI). This profile supports the requirement to explicitly bind metadata to data (or subsets thereof) whereby the data is XML-based and exchanged between service consumers and service providers using the WSMP message wrapper mechanism.	

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	<b>ID</b>
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex J	BINDING-WSMP
<b>XML Artifacts Profile</b>	Common XML artefacts 2.0
This profile supports the requirement to bind metadata to data (or subsets thereof) whereby the data is XML-encoded in one of the following schemas: XML Schema, ISO Schematron, XML Stylesheet, Generic Codelist, Context/Value Association or Security Policy Information File.	
<a href="#">TN-1491_Edition2-Binding_Profiles_v1.0-Signed.pdf</a> - Annex K	BINDING-COMMON-XML

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# **NATO STANDARD**

## **ADatP-34**

### **NATO Interoperability Standards and Profiles**

#### **Volume 3**

#### **Candidate Interoperability Standards and Profiles**

**Edition N Version 1**

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## **NATO LETTER OF PROMULGATION**

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## RECORD OF SPECIFIC RESERVATIONS

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# CHAPTER 1. STANDARDS

## 1.1. INTRODUCTION

001. The purpose of this chapter is to specify the candidate NISP standards. The document organizes these standards, following baseline 3.1 NATO's C3 Taxonomy, as endorsed by the NATO C3 Board per AC/322-D(2019)0034-AS1(INV) on 26 August 2019. A graphical representation of this taxonomy is included in volume 1.

002. For some standards it was not clear yet which service identified in the C3 Taxonomy should be used. Therefore, as an interim solution, the taxonomy was extended with e.g. user-defined "Cloud Services". In a separate section, all standards are listed for which could not yet be defined how they should be linked to the C3 Taxonomy.

003. The standards are presented in tabular form. Each table represent a subtree from the C3 taxonomy and each table line (marked in bold and spanning all columns in the table) represents a taxonomy node from the subtree. Under each taxonomy node title, all standards which are mapped to the node are listed with the following attributes: title of the standard; where possible, a link to the standard; publication number of the standard; a list of all the capability profiles where the standard is used; and finally the "responsible party" which is the domain expert that advises NATO about the standard. In general, a taxonomy node is only listed if at least one standard is assigned to this taxonomy node.

004. When STANAG X Ed Y is in ratification process, this is indicated by STANAG (RD) X Ed Y, and when it is a study draft, this is indicated by STANAG (Study) X Ed Y.

### 1.1.1. Releasability Statement

005. In principle, NISP only contains or references standards or related documents, which are generally available for NATO/NATO member nations/CCEB.

## 1.2. USER APPLICATIONS

Title	Pubnum	Profiles	Responsible Party

## 1.3. TECHNICAL SERVICES

006. The "Technical Services" include those services required to enable "User Applications". They are part of the "Back-End Capabilities" while "User Applications" are part of "User-Facing Capabilities".

007. According to the C3 Taxonomy, they consist of "Community Of Interest (COI) Services", "Core Services" and "Communications Services". The complete collection of Technical

Services is sometimes referred to as the "Technical Services Framework" (TSF) or "NNEC Services Framework" (NSF).

008. In addition to the "Technical Services" identified in the C3 Taxonomy, a taxonomy layer "Cloud Computing" has been added. This enables a more useful categorization of cloud-based standards (currently only included as candidate standards).

### 1.3.1. Community Of Interest (COI) Services

Title	Pubnum	Profiles	Responsible Party
<b>Recognized Air Picture Services</b>			
<a href="#">Standard for Joint Range Extension Application Protocol (JREAP)</a>	NATO ATDLP-5.18 Ed A Ver 1:2015 / STANAG (RD) 5518 Ed 2	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NATO STANAG 5516 FT Ed 8	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
<b>Recognized Maritime Picture Services</b>			
<a href="#">NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT)</a>	NATO TIDE/ NVG:2008	FMN4-PROPOSED-PR	NCIA/C2
<a href="#">Operational Specification for OVER-THE-HORIZON TARGETING GOLD (Revision C) (OTH-G)</a>	US DoD OTH-G Rev. C:1997	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Over-The-Horizon Targeting Gold baseline 2007</a>	US DoD OTH-T Gold Baseline 2007:2007	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
<b>ISR Collection Services</b>			
<a href="#">NATO Standard ISR Workflow Architecture</a>	NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
<b>Information Requirements Management Services</b>			
<a href="#">NATO Standard ISR Workflow Architecture</a>	NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
<b>Collection Management Services</b>			
<a href="#">NATO Standard ISR Workflow Architecture</a>	NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR

Title	Pubnum	Profiles	Responsible Party
<b>Situational Awareness Services</b>			
Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security	NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model	NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism	NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access	NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Standard for Joint Range Extension Application Protocol (JREAP)	NATO ATDLP-5.18 Ed A Ver 1:2015 / STANAG (RD) 5518 Ed 2	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NATO STANAG 5516 FT Ed 8	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
<b>Symbology Services</b>			
NATO Vector Graphics Specification 2.0.2	NATO ADatP-4733 Ed A Ver 1:2017 / STANAG (Study) 4733 Ed 1	BSP	C3B CaP1
NATO Joint Military Symbology	NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT)	NATO TIDE/ NVG:2008	FMN4-PROPOSED-PR	NCIA/C2
NATO Transformational Baseline 3.0:2009 (ACT)	NATO TIDE/ TTB:2009	BSP	NCIA/CES
GML in JPEG 2000 for Geographic Imagery (GMLJP2)	OGC 05-047r3:2006	BSP	FMN CPWG
<b>Battlespace Event Services</b>			

Title	Pubnum	Profiles	Responsible Party
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4- PROPOSED-PR	MC, MCJSB, IERHWG
<b>Battlespace Object Services</b>			
MIP 4.2 Information Exchange Specification	MIP MIP Ver 4.2:2018	FMN4- PROPOSED-PR	FMN CPWG
Web Service Messaging Profile (WSMP)	NATO ADatP-5644 (Study) Ed A Ver 1	FMN4- PROPOSED-PR	C3B CaP1 DM CaT
Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security	NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4- PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model	NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4- PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism	NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4- PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access	NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4- PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
<b>Track Management Services</b>			
NATO Friendly Force Information (FFI) Standard for Interoperability of Friendly Force Tracking Systems (FFTS)	NATO ADatP-36 Ed A Ver 1:2017	FMN4- PROPOSED-PR	C3B CaP2 FFT CaT
Services to forward Friendly Force Information to Weapon Delivery Assets	NATO ADatP-37 Ed A ver 1:2018 / STANAG 5528 Ed 1	FMN4- PROPOSED-PR	C3B CaP2
Technical Characteristics of Reverse IFF using Mode 5 Waveform	NATO Study (expected) AETP-4722 Ed. A Ver. 1 / STANAG 4722 Ed 1	BSP	C3B CaP2

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Identification Data Combining Process	NATO Study (expected) AIDPP-01 ed. A version 1 / STANAG 4162 Ed 3	BSP	C3B CaP2
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
Tactical Data Exchange - Link 11/11B	NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG 5511 FT Ed 10	BSP	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16	NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8	BSP	C3B CaP1 TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP)	NATO ATDLP-5.18 Ed A Ver 1:2015 / STANAG (RD) 5518 Ed 2	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NATO STANAG 5516 FT Ed 8	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B <sup>1</sup>	NATO Study (expected) STANAG 5522 Ed 6 / ATDLP-5.22(B)	BSP	C3B CaP1 TDL CaT
<b>Track Distribution Services</b>			
NATO Friendly Force Information (FFI) Standard for Interoperability of Friendly Force Tracking Systems (FFTS)	NATO ADatP-36 Ed A Ver 1:2017	FMN4-PROPOSED-PR	C3B CaP2 FFT CaT
Services to forward Friendly Force Information to Weapon Delivery Assets	NATO ADatP-37 Ed A ver 1:2018 / STANAG 5528 Ed 1	FMN4-PROPOSED-PR	C3B CaP2
Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security	NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS

Title	Pubnum	Profiles	Responsible Party
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model	NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism	NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access	NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NATO STANAG 5516 FT Ed 8	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP)	NATO STANAG 5518 Ed 1:2014	FMN4-PROPOSED-PR	C3B CaP1 TDL CaT
<b>Modeling and Simulation Services</b>			

<sup>1</sup>STANAG 5522 Ed 6 / ATDLP 5.22(B) - The extant edition is Ed 2. Ed 6 will be out for promulgation using Fast Track procedure during 2020.

### 1.3.2. Core Services

Title	Pubnum	Profiles	Responsible Party
<b>Business Support CIS Security Services</b>			
Common Biometric Exchange Formats Framework (CBEFF)	ANSI incits-398:2008	BSP	NCIA/JISR
Electronic Biometric Transmission Specification (EBTS)	FBI IAFIS-DOC-01078-8.1:2008	BSP	CNAD, AC/224 NAFAG, JCGISR
<b>Business Support SMC Services</b>			
Trouble Ticket REST API Specification R14.5.1 Interface	TM-FORUM TMF621:2015	FMN4-PROPOSED-PR	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250:2016	FMN4-PROPOSED-PR	FMN CPWG



Title	Pubnum	Profiles	Responsible Party
<b>Communication and Collaboration Services</b>			
HyperText Markup Language (HTML), Version 5.0, Reference Specification	W3C WD-html5-20121025:2012	BSP	NCIA/CES
<b>Informal Messaging Services</b>			
SMTP Service Extension for Message Size Declaration	IETF RFC 1870:1995	FMN4-PROPOSED-PR	FMN CPWG
The text/enriched MIME Content-type	IETF RFC 1896:1996	FMN4-PROPOSED-PR	FMN CPWG
SMTP Service Extension for Returning Enhanced Error Codes	IETF RFC 2034:1996	FMN4-PROPOSED-PR	FMN CPWG
MIME - Part 1: Format of Internet Message Bodies	IETF RFC 2045:1996	FMN4-PROPOSED-PR	FMN CPWG
MIME - Part 2: Media Types	IETF RFC 2046:1996	FMN4-PROPOSED-PR	FMN CPWG
MIME - Part 3: Message Header Extensions for Non-ASCII Text	IETF RFC 2047:1996	FMN4-PROPOSED-PR	FMN CPWG
MIME - Part 5: Conformance Criteria and Examples	IETF RFC 2049:1996	FMN4-PROPOSED-PR	FMN CPWG
SMTP Service Extension for Command Pipelining	IETF RFC 2920:2000	FMN4-PROPOSED-PR	FMN CPWG
SMTP Service Extension for Secure SMTP over TLS	IETF RFC 3207:2002	FMN4-PROPOSED-PR	FMN CPWG
SMTP Service Extension for Delivery Status Notifications	IETF RFC 3461:2003	FMN4-PROPOSED-PR	FMN CPWG
UTF-8, a transformation format of ISO/IEC 10646	IETF RFC 3629:2003	FMN4-PROPOSED-PR	FMN CPWG
The Text/Plain Format and DelSp Parameters	IETF RFC 3676:2004	FMN4-PROPOSED-PR	FMN CPWG
SMTP Service Extension for Authentication	IETF RFC 4954:2007	FMN4-PROPOSED-PR	FMN CPWG
URI Fragment Identifiers for the text/plain Media Type	IETF RFC 5147:2008	FMN4-PROPOSED-PR	FMN CPWG
Simple Mail Transfer Protocol	IETF RFC 5321:2008	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Internet Message Format	IETF RFC 5322:2008	FMN4-PROPOSED-PR	NCIA
Internet Calendaring and Scheduling Core Object Specification (iCalendar)	IETF RFC 5545:2009	FMN4-PROPOSED-PR	FMN CPWG
SMTP Service Extension for 8-bit MIME Transport	IETF RFC 6152:2011	FMN4-PROPOSED-PR	FMN CPWG
Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)	ISO 19005-1:2005	FMN4-PROPOSED-PR	FMN CPWG
Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2)	ISO 19005-2:2011	FMN4-PROPOSED-PR	FMN CPWG
Document management -- Portable document format -- Part 1: PDF 1.7	ISO 32000-1:2008	FMN4-PROPOSED-PR	FMN CPWG
Digital compression and coding of continuous-tone still images: Requirements and guidelines	ISO/IEC 10918-1:1994	FMN4-PROPOSED-PR	FMN CPWG
Digital compression and coding of continuous-tone still images: Extensions	ISO/IEC 10918-3:1997	FMN4-PROPOSED-PR	FMN CPWG
Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference	ISO/IEC 29500-1:2012	FMN4-PROPOSED-PR	FMN CPWG
NATO SECONDARY IMAGERY FORMAT (NSIF) STANAG 4545 IMPLEMENTATION GUIDE	NATO AEDP-04 Ed 2 Ver 1:2013	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format	NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3	FMN4-PROPOSED-PR	FMN CPWG
NATO Motion Imagery STANAG 4609 Implementation Guide	NATO AEDP-08 Ed 3 Ver 1:2009	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard	NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
NATO standardization of measurement and signature intelligence (MASINT) Reporting	NATO AEDP-16 / STANAG (Study) 4716 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
Allied Joint Medical Doctrine For Medical Evacuation	NATO AJMedP-2 Ed A Ver 1:2018 / STANAG 2546 Ed 2	FMN4-PROPOSED-PR	COMEDS, MCMedSB, MedStd EM
Captured Persons, Materiel And Documents	NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2	FMN4-PROPOSED-PR	MC, MCJSB, JINT
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
NATO Land Urgent Voice Messages (LUVN) Pocket Book	NATO ATP-97 Ed A Ver 1:2016 / STANAG 2627 Ed 1	FMN4-PROPOSED-PR	MC, MCLSB, LO
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN4-PROPOSED-PR	FMN CPWG
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
NATO Core Metadata Specification - ADatP-39 Edition A	NATO STANAG 5636 (Study) Ed 1	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
Profiles for Binding Metadata to a Data Object	NCIA TN-1491 Edition 2:2017	FMN4-PROPOSED-PR	NCIA/CES
XHTML™ 1.0 in XML Schema	W3C note-xhtml1-schema-20020902:2002	FMN4-PROPOSED-PR	FMN CPWG
Hypertext Markup Language revision 5 (HTML5)	W3C REC-html5-20141028:2014	FMN4-PROPOSED-PR	FMN CPWG
<b>Fax Services</b>			
Procedures for real-time Group 3 facsimile communication over IP networks	ITU-T T.38:2010	BSP	NCIA/NSII
<b>Calendaring and Scheduling Services</b>			

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Internet Calendaring and Scheduling Core Object Specification (iCalendar)	IETF RFC 5545:2009	FMN4-PROPOSED-PR	FMN CPWG
iCalendar Transport-Independent Interoperability Protocol (iTIP)	IETF RFC 5546:2009	FMN4-PROPOSED-PR	FMN CPWG
iCalendar Message-Based Interoperability Protocol (iMIP)	IETF RFC 6047:2010	FMN4-PROPOSED-PR	FMN CPWG
<b>Video-based Communication Services</b>			
Session Initiation Protocol	IETF RFC 3261:2002	FMN4-PROPOSED-PR	FMN CPWG
Reliability of Provisional Responses in the Session Initiation Protocol (SIP)	IETF RFC 3262:2002	FMN4-PROPOSED-PR	FMN CPWG
An Offer/Answer Model with the Session Description Protocol (SDP)	IETF RFC 3264:2002	FMN4-PROPOSED-PR	FMN CPWG
The Session Initiation Protocol (SIP) UPDATE Method	IETF RFC 3311:2002	FMN4-PROPOSED-PR	FMN CPWG
Session Timers in the Session Initiation Protocol (SIP)	IETF RFC 4028:2005	FMN4-PROPOSED-PR	FMN CPWG
A Framework for Conferencing with the Session Initiation Protocol (SIP)	IETF RFC 4353:2006	FMN4-PROPOSED-PR	FMN CPWG
Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events	IETF RFC 4411:2006	FMN4-PROPOSED-PR	FMN CPWG
Communications Resource Priority for the Session Initiation Protocol (SIP)	IETF RFC 4412:2006	FMN4-PROPOSED-PR	FMN CPWG
SDP: Session Description Protocol	IETF RFC 4566:2006	FMN4-PROPOSED-PR	FMN CPWG
Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents	IETF RFC 4579:2006	FMN4-PROPOSED-PR	FMN CPWG
Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP)	IETF RFC 5366:2008	FMN4-PROPOSED-PR	FMN CPWG
RTP Payload Format for H.264 Video	IETF RFC 6184:2011	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
SIP-Specific Event Notification	IETF RFC 6665:2012	FMN4-PROPOSED-PR	FMN CPWG
RTP Topologies	IETF RFC 7667:2015	FMN4-PROPOSED-PR	FMN CPWG
Notation for national and international telephone numbers, e-mail addresses and web addresses	ITU-T E.123:2001	FMN4-PROPOSED-PR	FMN CPWG
The international public telecommunication numbering plan	ITU-T E.164:2010	FMN4-PROPOSED-PR	FMN CPWG
Pulse code modulation (PCM) of voice frequencies	ITU-T G.711:1988	FMN4-PROPOSED-PR	FMN CPWG
Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss	ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008	FMN4-PROPOSED-PR	FMN CPWG
Advanced video coding for generic audiovisual services	ITU-T H.264:2017	FMN4-PROPOSED-PR	FMN CPWG
International Network Numbering for Communications Systems in use in NATO	NATO STANAG 4705 Ed 1:2015	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT
<b>Audio-based Communication Services</b>			
RTP: A Transport Protocol for Real-Time Applications	IETF RFC 3550:2003	FMN4-PROPOSED-PR	FMN CPWG
Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events	IETF RFC 4411:2006	FMN4-PROPOSED-PR	FMN CPWG
Communications Resource Priority for the Session Initiation Protocol (SIP)	IETF RFC 4412:2006	FMN4-PROPOSED-PR	FMN CPWG
RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals	IETF RFC 4733:2006	FMN4-PROPOSED-PR	FMN CPWG
SCIP Signalling Plan rev.3.3	CIS3 C&IP SCIP-210:2010	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT
SCIP over RTP rev.1.0	CIS3 C&IP SCIP-214.2:2010	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT
Securing SIP Signaling - Use of TLS with SCIP	CIS3 C&IP SCIP-214.3:2014	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0	CIS3 C&IP SCIP-233.350:2012	FMN4- PROPOSED-PR	C3B CaP1 N&S CaT
Secure MELP(e) Voice rev.1.1	CIS3 C&IP SCIP-233.501:2012	FMN4- PROPOSED-PR	C3B CaP1 N&S CaT
Secure G.729D Voice Specification Rev. 1.1.	CIS3 C&IP SCIP-233.502:2011	FMN4- PROPOSED-PR	C3B CaP1 N&S CaT
Notation for national and international telephone numbers, e-mail addresses and web addresses	ITU-T E.123:2001	FMN4- PROPOSED-PR	FMN CPWG
The international public telecommunication numbering plan	ITU-T E.164:2010	FMN4- PROPOSED-PR	FMN CPWG
Pulse code modulation (PCM) of voice frequencies	ITU-T G.711:1988	FMN4- PROPOSED-PR	FMN CPWG
Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss	ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008	FMN4- PROPOSED-PR	FMN CPWG
Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP)	ITU-T G.729:2012	FMN4- PROPOSED-PR	FMN CPWG
Advanced video coding for generic audiovisual services	ITU-T H.264:2017	FMN4- PROPOSED-PR	FMN CPWG
NATO SECONDARY IMAGERY FORMAT (NSIF) STANAG 4545 IMPLEMENTATION GUIDE	NATO AEDP-04 Ed 2 Ver 1:2013	FMN4- PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format	NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3	FMN4- PROPOSED-PR	FMN CPWG
NATO Motion Imagery STANAG 4609 Implementation Guide	NATO AEDP-08 Ed 3 Ver 1:2009	FMN4- PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard	NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1	FMN4- PROPOSED-PR	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
NATO standardization of measurement and signature intelligence (MASINT) Reporting	NATO AEDP-16 / STANAG (Study) 4716 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
Allied Joint Medical Doctrine For Medical Evacuation	NATO AJMedP-2 Ed A Ver 1:2018 / STANAG 2546 Ed 2	FMN4-PROPOSED-PR	COMEDS, MCMedSB, MedStd EM
Captured Persons, Materiel And Documents	NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2	FMN4-PROPOSED-PR	MC, MCJSB, JINT
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
NATO Land Urgent Voice Messages (LUVIM) Pocket Book	NATO ATP-97 Ed A Ver 1:2016 / STANAG 2627 Ed 1	FMN4-PROPOSED-PR	MC, MCLSB, LO
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN4-PROPOSED-PR	FMN CPWG
International Network Numbering for Communications Systems in use in NATO	NATO STANAG 4705 Ed 1:2015	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT
<b>Text-based Communication Services</b>			
UTF-8, a transformation format of ISO/IEC 10646	IETF RFC 3629:2003	FMN4-PROPOSED-PR	FMN CPWG
Extensible Messaging and Presence Protocol (XMPP): Core	IETF RFC 6120:2011	FMN4-PROPOSED-PR	NCIA
Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence	IETF RFC 6121:2011	FMN4-PROPOSED-PR	NCIA
Extensible Messaging and Presence Protocol (XMPP): Address Format	IETF RFC 6122:2011	FMN4-PROPOSED-PR	NCIA
NATO SECONDARY IMAGERY FORMAT (NSIF) STANAG 4545 IMPLEMENTATION GUIDE	NATO AEDP-04 Ed 2 Ver 1:2013	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format	NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
NATO Motion Imagery STANAG 4609 Implementation Guide	NATO AEDP-08 Ed 3 Ver 1:2009	FMN4- PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard	NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1	FMN4- PROPOSED-PR	FMN CPWG
NATO standardization of measurement and signature intelligence (MASINT) Reporting	NATO AEDP-16 / STANAG (Study) 4716 Ed 1	FMN4- PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
Allied Joint Medical Doctrine For Medical Evacuation	NATO AJMedP-2 Ed A Ver 1:2018 / STANAG 2546 Ed 2	FMN4- PROPOSED-PR	COMEDS, MCMedSB, MedStd EM
Captured Persons, Materiel And Documents	NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2	FMN4- PROPOSED-PR	MC, MCJSB, JINT
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4- PROPOSED-PR	MC, MCJSB, IERHWG
NATO Land Urgent Voice Messages (LUVM) Pocket Book	NATO ATP-97 Ed A Ver 1:2016 / STANAG 2627 Ed 1	FMN4- PROPOSED-PR	MC, MCLSB, LO
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN4- PROPOSED-PR	FMN CPWG
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	FMN4- PROPOSED-PR	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	FMN4- PROPOSED-PR	C3B CaP1 DM CaT
NATO Core Metadata Specification - ADatP-39 Edition A	NATO STANAG 5636 (Study) Ed 1	FMN4- PROPOSED-PR	C3B CaP1 DM CaT
Profiles for Binding Metadata to a Data Object	NCIA TN-1491 Edition 2:2017	FMN4- PROPOSED-PR	NCIA/CES
XEP-0004: Data Forms	XMPP XEP-0004:2007	FMN4- PROPOSED-PR	FMN CPWG
XEP-0012: Last Activity	XMPP XEP-0012:2008	FMN4- PROPOSED-PR	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
XEP-0030: Service Discovery	XMPP XEP-0030:2008	FMN4- PROPOSED-PR	FMN CPWG
XEP-0045: Multi-User Chat	XMPP XEP-0045:2012	FMN4- PROPOSED-PR	FMN CPWG
XEP-0047: In-Band Bytestreams	XMPP XEP-0047:2012	FMN4- PROPOSED-PR	FMN CPWG
XEP-0049: Private XML Storage	XMPP XEP-0049:2004	FMN4- PROPOSED-PR	FMN CPWG
XEP-0049: Private XML Storage	XMPP XEP-0049:2004	FMN4- PROPOSED-PR	FMN CPWG
XEP-0054: vcard-temp	XMPP XEP-0054:2008	FMN4- PROPOSED-PR	FMN CPWG
XEP-0055: Jabber Search	XMPP XEP-0055:2009	FMN4- PROPOSED-PR	FMN CPWG
XEP-0059: Result Set Management	XMPP XEP-0059:2006	FMN4- PROPOSED-PR	NCIA
XEP-0065: SOCKS5 Bytestreams	XMPP XEP-0065:2011	FMN4- PROPOSED-PR	FMN CPWG
XEP-0082: XMPP Date and Time Profiles	XMPP XEP-0082:2013	FMN4- PROPOSED-PR	FMN CPWG
XEP-0092: Software Version	XMPP XEP-0092:2007	FMN4- PROPOSED-PR	FMN CPWG
XEP-0114: Jabber Component Protocol	XMPP XEP-0114:2012	FMN4- PROPOSED-PR	FMN CPWG
XEP-0114: Jabber Component Protocol	XMPP XEP-0114:2012	FMN4- PROPOSED-PR	FMN CPWG
XEP-0160: Best Practices for Handling Offline Messages	XMPP XEP-0160:2016	FMN4- PROPOSED-PR	FMN CPWG
XEP-0198: Stream Management	XMPP XEP-0198:2011	FMN4- PROPOSED-PR	NCIA
XEP-0199: XMPP Ping	XMPP XEP-0199:2009	FMN4- PROPOSED-PR	NCIA
XEP-0202: Entity Time	XMPP XEP-0202:2009	FMN4- PROPOSED-PR	NCIA
XEP-0203: Delayed Delivery	XMPP XEP-0203:2009	FMN4- PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">XEP-0220: Server Dialback</a>	XMPP XEP-0220:2013	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0258: Security Labels in XMPP</a>	XMPP XEP-0258:2013	FMN4- PROPOSED-PR	NCIA
<a href="#">XEP-0313: Message Archive Management</a>	XMPP XEP-0313:2017	FMN4- PROPOSED-PR	FMN CPWG
<b>Presence Services</b>			
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Core</a>	IETF RFC 6120:2011	FMN4- PROPOSED-PR	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence</a>	IETF RFC 6121:2011	FMN4- PROPOSED-PR	NCIA
<a href="#">Extensible Messaging and Presence Protocol (XMPP): Address Format</a>	IETF RFC 6122:2011	FMN4- PROPOSED-PR	NCIA
<a href="#">XEP-0004: Data Forms</a>	XMPP XEP-0004:2007	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0012: Last Activity</a>	XMPP XEP-0012:2008	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0030: Service Discovery</a>	XMPP XEP-0030:2008	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0045: Multi-User Chat</a>	XMPP XEP-0045:2012	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0047: In-Band Bytestreams</a>	XMPP XEP-0047:2012	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0049: Private XML Storage</a>	XMPP XEP-0049:2004	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0049: Private XML Storage</a>	XMPP XEP-0049:2004	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0054: vcard-temp</a>	XMPP XEP-0054:2008	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0055: Jabber Search</a>	XMPP XEP-0055:2009	FMN4- PROPOSED-PR	FMN CPWG
<a href="#">XEP-0059: Result Set Management</a>	XMPP XEP-0059:2006	FMN4- PROPOSED-PR	NCIA
<a href="#">XEP-0065: SOCKS5 Bytestreams</a>	XMPP XEP-0065:2011	FMN4- PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
XEP-0082: XMPP Date and Time Profiles	XMPP XEP-0082:2013	FMN4- PROPOSED-PR	FMN CPWG
XEP-0092: Software Version	XMPP XEP-0092:2007	FMN4- PROPOSED-PR	FMN CPWG
XEP-0114: Jabber Component Protocol	XMPP XEP-0114:2012	FMN4- PROPOSED-PR	FMN CPWG
XEP-0114: Jabber Component Protocol	XMPP XEP-0114:2012	FMN4- PROPOSED-PR	FMN CPWG
XEP-0160: Best Practices for Handling Offline Messages	XMPP XEP-0160:2016	FMN4- PROPOSED-PR	FMN CPWG
XEP-0198: Stream Management	XMPP XEP-0198:2011	FMN4- PROPOSED-PR	NCIA
XEP-0199: XMPP Ping	XMPP XEP-0199:2009	FMN4- PROPOSED-PR	NCIA
XEP-0202: Entity Time	XMPP XEP-0202:2009	FMN4- PROPOSED-PR	NCIA
XEP-0203: Delayed Delivery	XMPP XEP-0203:2009	FMN4- PROPOSED-PR	FMN CPWG
XEP-0220: Server Dialback	XMPP XEP-0220:2013	FMN4- PROPOSED-PR	FMN CPWG
XEP-0258: Security Labels in XMPP	XMPP XEP-0258:2013	FMN4- PROPOSED-PR	NCIA
XEP-0313: Message Archive Management	XMPP XEP-0313:2017	FMN4- PROPOSED-PR	FMN CPWG
<b>Geospatial Services</b>			
OpenGIS Web Processing Service	OGC 05-007r7:2007	BSP	NCIA/AWG
GML in JPEG 2000 for Geographic Imagery (GMLJP2)	OGC 05-047r3:2006	FMN4- PROPOSED-PR	FMN CPWG
OGC KML	OGC 07-147r2:2008	FMN4- PROPOSED-PR	FMN CPWG
Geographical Tagged Image Format (GeoTIFF)	OSGEO 1.8.2:2000	FMN4- PROPOSED-PR	FMN CPWG
<b>Geospatial Web Map Services</b>			
Geographic information - Web map server interface	ISO 19128:2005	FMN4- PROPOSED-PR	FMN CPWG

Title	Pubnum	Profiles	Responsible Party
<a href="#">Open GIS Web Map Service Implementation Specification</a>	OGC 06-042:2006	FMN4-PROPOSED-PR	FMN CPWG
<b>Geospatial Web Feature Services</b>			
<a href="#">Geographic information - Web Feature Service</a>	ISO 19142:2010	FMN4-PROPOSED-PR	FMN CPWG
OpenGIS Web Feature Service 2.0 Interface Standard	OGC 09-025r2:2006	FMN4-PROPOSED-PR	FMN CPWG
<b>Geospatial Web Coverage Services</b>			
<a href="#">Web Coverage Service Implementation Standard v1.1.2</a>	OGC 07-067r5:2007	BSP	NCIA/AWG
<b>Geospatial Coordinate Services</b>			
OpenGIS Coordinate Transformation Services	OGC 01-009:2001	BSP	NCIA/AWG
<b>Information Management Services</b>			
<a href="#">Application Vulnerability Description Language (AVDL) version 1.0</a>	OASIS AVDL Specification - 01:2004	BSP	NCIA/CS
<b>Content Management Services</b>			
<a href="#">UTF-8, a transformation format of ISO/IEC 10646</a>	IETF RFC 3629:2003	FMN4-PROPOSED-PR	FMN CPWG
<b>Formal Messaging Services</b>			
<a href="#">Registration of Military Message Handling System (MMHS) Header Fields for Use in Internet Mail</a>	IETF RFC 6477:2012	BSP	NCIA/CES
<a href="#">Tactical Data Exchange - Link 11/11B</a>	NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG 5511 FT Ed 10	BSP	C3B CaP1 TDL CaT
<a href="#">Tactical Data Exchange - Link 16</a>	NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8	BSP	C3B CaP1 TDL CaT
<a href="#">Joint Range Extension Application Protocol (JREAP)<sup>1</sup></a>	NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4	BSP	C3B CaP1 TDL CaT

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B <sup>1</sup>	NATO Study (expected) STANAG 5522 Ed 6 / ATDLP-5.22(B)	BSP	C3B CaP1 TDL CaT
SOAP Messages with Attachments (SwA) Profile 1.1	OASIS wss-v1.1-spec-os-SwAProfile:2006	BSP	NCIA/CES
Variable Message Format (VMF) <sup>2</sup>	US DoD MIL-STD-6017 D:2017	BSP	C3B CaP1
<b>Workflow Services</b>			
NATO Standard ISR Workflow Architecture	NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
<b>Search Services</b>			
Atom Syndication Format, v1.0	IETF RFC 4287:2005	FMN4-PROPOSED-PR	FMN CPWG
XML Media Types	IETF RFC 7303:2014	FMN4-PROPOSED-PR	FMN CPWG
OpenSearch 1.1 Draft 6	Opensearch opensearch11d6:2005	FMN4-PROPOSED-PR	FMN CPWG
RSS 2.0 Specification	RSS 2.0:2009	FMN4-PROPOSED-PR	FMN CPWG
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	FMN4-PROPOSED-PR	FMN CPWG
<b>Reporting Services</b>			
Representation of Names of Languages Part 2: Alpha-3	ISO 639-2:1998	FMN4-PROPOSED-PR	NCIA/Sstrat/Sea
Information technology -- Metadata registries (MDR) -- Part 3: Registry metamodel and basic attributes	ISO/IEC 11179-3:2013	FMN4-PROPOSED-PR	FMN CPWG
Image Processing and Interchange (IPI) - Functional Specification - Part 5: Basic Image Interchange Format (BIIF)	ISO/IEC 12087-5:1998	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Technical Corrigendum 1 to International Standard ISO/IEC 12087-5:1998	ISO/IEC 12087-5-cor1:2001	FMN4-PROPOSED-PR	FMN CPWG
Technical Corrigendum 2 to International Standard ISO/IEC 12087-5:1998	ISO/IEC 12087-5-cor2:2002	FMN4-PROPOSED-PR	FMN CPWG
Information technology -- Open Distributed Processing -- Interface Definition Language	ISO/IEC 14750:1999	FMN4-PROPOSED-PR	FMN CPWG
NATO SECONDARY IMAGERY FORMAT (NSIF) STANAG 4545 IMPLEMENTATION GUIDE	NATO AEDP-04 Ed 2 Ver 1:2013	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format	NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3	FMN4-PROPOSED-PR	FMN CPWG
NATO Motion Imagery STANAG 4609 Implementation Guide	NATO AEDP-08 Ed 3 Ver 1:2009	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard	NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1	FMN4-PROPOSED-PR	FMN CPWG
NATO standardization of measurement and signature intelligence (MASINT) Reporting	NATO AEDP-16 / STANAG (Study) 4716 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Standard ISR Library Interface	NATO AEDP-17 Ed A Ver 1:2018 / STANAG 4559 Ed 4	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
US Motion Imagery Standards Board (MISB) - Motion Imaginary Standards Profile-2015.1	NATO NNSTD MISP-2015.1:2016 / STANAG 4609 Ed 4	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN4-PROPOSED-PR	FMN CPWG
Joint C3 Information Exchange Data Model (JC3IEDM)	NATO STANAG 5525 Ed 1:2007	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
<b>Platform Services</b>			
WS-BrokeredNotification 1.3	OASIS wsn-ws_brokered_notification-1.3-spec-os:2006	BSP	NCIA/CES
Web Services Business Process Execution Language (WSBPEL) version 2.0	OASIS ws-bpel:2007	BSP	NCIA/CES
WS-BaseNotification	OASIS ws-notif:2006	BSP	NCIA/CES
WS-Topics 1.3	OASIS wsn-ws_topics-1.3-spec-os:2006	BSP	NCIA/CES
Web Services Addressing 1.0 - Core	W3C REC-ws-addr-core-20060509:2006	BSP	FMN CPWG
Attachments Profile Version 1.0	WS-I AttachmentsProfile-1.0-2006-04-20:2004	BSP	NCIA/CES
WS-I Basic Profile 1.2	WS-I BP12:2010	BSP	NCIA/CES
WS-I Basic Profile 2.0	WS-I wsbp:2010	BSP	NCIA/CES
Simple SOAP Binding Profile Version 1.0	WS-I SimpleSoapBindingProfile-1.0-2004-08-24:2004	BSP	NCIA/CES
<b>Security Token Services</b>			
RADIUS and IPv6	IETF RFC 3162:2001	BSP	NCIA/NSII
Single Sign On	Open Group P702:1997	BSP	C3B CaP4
<b>Policy Decision Point Services</b>			
Data Format for the Interchange of Fingerprint Facial, and Scar Mark and Tattoo (SMT) Information	ANSI/NIST ITL 1-2000:2000	BSP	NCIA/JISR
Biometric data interchange formats -- Part 2:	ISO/IEC 19794-2:2007	BSP	NCIA/JISR
Biometric data interchange formats -- Part 5: Face image data	ISO/IEC 19794-5:2007	BSP	NCIA/JISR



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Biometric data interchange formats -- Part 6: Iris image data	ISO/IEC 19794-6:2007	BSP	NCIA/JISR
NATO Public Key Infrastructure (NPKI) Certificate Policy (CertP) Rev2.	NATO AC/322-D(2004)0024REV2:2008	BSP	C3B NPMA
eXtensible Access Control Markup Language core specification	OASIS xacml-3.0-core-spec-os:2013	BSP	NCIA/CS
DOD EBTS	US DoD DIN: DOD_BTFS_EBTS_Nov06_01.02.00:2006	BSP	CNAD, AC/224 NAFAG, JCGISR
DOD EBTS	US DoD DIN: DOD_BTFS_EBTS_Mar09_02.00.00:2009	BSP	CNAD, AC/224 NAFAG, JCGISR
<b>Platform SMC Services</b>			
Common Information Model (CIM) v2.2	DMTF DSP0004:1999	BSP	C3B CaP1 SMC CaT
Web Services for Management (WS-Management) Specification	DMTF DSP0226:2010	BSP	C3B CaP1 SMC CaT
WS-Management CIM Binding Specification	DMTF DSP0227:2010	BSP	C3B CaP1 SMC CaT
Remote Network Monitoring Management Information Base, RMON-MIB version 2 using SMIV2	IETF RFC 2021:1997	BSP	NCIA/SMC
IP Version 6 Management Information Base for the Transmission Control Protocol	IETF RFC 2452:1998	BSP	NCIA/NSII
IP Version 6 Management Information Base for the User Datagram Protocol	IETF RFC 2454:1998	BSP	NCIA/NSII
IPv6 MIB	IETF RFC 2465:1998	BSP	NCIA/SMC
ICMPv6 MIB	IETF RFC 2466:1998	BSP	NCIA/SMC
Multicast Group Membership Discovery MIB	IETF RFC 5519:2009	BSP	NCIA/NSII
Enhanced Telecom Operations Map	TM-FORUM eTOM Rel.13:2012	BSP	NCIA/SMC



Title	Pubnum	Profiles	Responsible Party
<b>Service Discovery Services</b>			
DNS-Based Service Discovery	IETF RFC 6763:2013	BSP	NCIA/CES
TIDE Service Discovery	NATO TIDE/TIDE-ID-SP:2008	BSP	NCIA/CES
OASIS ebXML Messaging Services Specification	OASIS ebms2:2002	BSP	NCIA/CES
Web Services Dynamic Discovery Version 1.1	OASIS wsdd-discovery-1.1-spec:2009	BSP	NCIA/CES
Web Services Description Language (WSDL) Version 2.0 Part 1: Core Language	W3C REC-wsdl20-20070626:2007	BSP	NCIA/Sstrat/Sea
<b>Message-Oriented Middleware Services</b>			
Web Service Messaging Profile (WSMP)	NATO ADatP-5644 (Study) Ed A Ver 1	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
SOAP Version 1.2	W3C SOAP Version 1.2:2001	BSP	NCIA/CES
<b>Direct Messaging Services</b>			
Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security	NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model	NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism	NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access	NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
<b>Web Platform Services</b>			
Content-ID and Message-ID Uniform Resource Locators	IETF RFC 2392:1998	BSP	NCIA/CES

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
<a href="#">XML Linking Language (XLink) Version 1.1</a>	W3C REC- xlink11-20100506:2010	BSP	NCIA/CES
<a href="#">Extensible Markup Language (XML) version 1.1 (Second Edition)</a>	W3C REC- xml11-20060816:2006	BSP	NCIA/CES
<b>Web Hosting Services</b>			
<a href="#">Uniform Resource Locators (URL)</a>	IETF RFC 1738:1994	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Upgrading to TLS Within HTTP/1.1</a>	IETF RFC 2817:2000	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">The 'text/html' Media Type</a>	IETF RFC 2854:2000	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">UTF-8, a transformation format of ISO/IEC 10646</a>	IETF RFC 3629:2003	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Uniform Resource Identifiers (URI): Generic Syntax</a>	IETF RFC 3986:2005	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Atom Syndication Format, v1.0</a>	IETF RFC 4287:2005	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Scripting Media Types</a>	IETF RFC 4329:2006	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">The application/json Media Type for JavaScript Object Notation (JSON)</a>	IETF RFC 4627:2006	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Atom Publishing Protocol</a>	IETF RFC 5023:2007	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Internet Calendaring and Scheduling Core Object Specification (iCalendar)</a>	IETF RFC 5545:2009	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a>	IETF RFC 7230:2014	FMN4-PROPOSED-PR	NCIA/CES
<a href="#">Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content</a>	IETF RFC 7231:2014	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests</a>	IETF RFC 7232:2014	FMN4-PROPOSED-PR	FMN CPWG
<a href="#">Hypertext Transfer Protocol (HTTP/1.1): Range Requests</a>	IETF RFC 7233:2014	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Hypertext Transfer Protocol (HTTP/1.1): Caching	IETF RFC 7234:2014	FMN4-PROPOSED-PR	FMN CPWG
Hypertext Transfer Protocol (HTTP/1.1): Authentication	IETF RFC 7235:2014	FMN4-PROPOSED-PR	FMN CPWG
Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)	ISO 19005-1:2005	FMN4-PROPOSED-PR	FMN CPWG
Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2)	ISO 19005-2:2011	FMN4-PROPOSED-PR	FMN CPWG
Document management -- Portable document format -- Part 1: PDF 1.7	ISO 32000-1:2008	FMN4-PROPOSED-PR	FMN CPWG
Digital compression and coding of continuous-tone still images: Requirements and guidelines	ISO/IEC 10918-1:1994	FMN4-PROPOSED-PR	FMN CPWG
Digital compression and coding of continuous-tone still images: Extensions	ISO/IEC 10918-3:1997	FMN4-PROPOSED-PR	FMN CPWG
Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference	ISO/IEC 29500-1:2012	FMN4-PROPOSED-PR	FMN CPWG
NATO SECONDARY IMAGERY FORMAT (NSIF) STANAG 4545 IMPLEMENTATION GUIDE	NATO AEDP-04 Ed 2 Ver 1:2013	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Ground Moving Target Indicator(GMTI) Format	NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3	FMN4-PROPOSED-PR	FMN CPWG
NATO Motion Imagery STANAG 4609 Implementation Guide	NATO AEDP-08 Ed 3 Ver 1:2009	FMN4-PROPOSED-PR	CNAD, AC/224 NAFAG, JCGISR
NATO Intelligence, Surveillance And Reconnaissance Tracking Standard	NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1	FMN4-PROPOSED-PR	FMN CPWG
NATO standardization of measurement and signature intelligence (MASINT) Reporting	NATO AEDP-16 / STANAG (Study) 4716 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/224

Title	Pubnum	Profiles	Responsible Party
			NAFAG, JCGISR
Captured Persons, Materiel And Documents	NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2	FMN4-PROPOSED-PR	MC, MCJSB, JINT
NATO Message Catalogue	NATO Study (expected) APP-11 Ed E Ver 1	FMN4-PROPOSED-PR	MC, MCJSB, IERHWG
Air Reconnaissance Intelligence Report Forms	NATO STANAG 3377:2002	FMN4-PROPOSED-PR	FMN CPWG
Confidentiality Metadata Label Syntax - ADatP-4774 Edition A	NATO STANAG 4774 Ed 1:2017	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
Metadata Binding - ADatP-4778 Edition A	NATO STANAG 4778 Ed 1:2018	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
NATO Core Metadata Specification - ADatP-39 Edition A	NATO STANAG 5636 (Study) Ed 1	FMN4-PROPOSED-PR	C3B CaP1 DM CaT
Profiles for Binding Metadata to a Data Object	NCIA TN-1491 Edition 2:2017	FMN4-PROPOSED-PR	NCIA/CES
GML application schema for the Simple and GML serializations of GeoRSS	OGC 1.1:2006	FMN4-PROPOSED-PR	FMN CPWG
RSS 2.0 Specification	RSS 2.0:2009	FMN4-PROPOSED-PR	FMN CPWG
Trouble Ticket REST API Specification R14.5.1 Interface	TM-FORUM TMF621:2015	FMN4-PROPOSED-PR	FMN CPWG
Product Ordering API REST Specification R14.5.1 Interface	TM-FORUM TMF622:2015	FMN4-PROPOSED-PR	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250:2016	FMN4-PROPOSED-PR	FMN CPWG
Web Services Addressing 1.0 - Core	W3C REC-ws-addr-core-20060509:2006	FMN4-PROPOSED-PR	FMN CPWG
Cross-Origin Resource Sharing	W3C CR-cors-20130129:2013	FMN4-PROPOSED-PR	FMN CPWG
Simple Object Access Protocol (SOAP)	W3C NOTE-SOAP-20000508:2000	FMN4-PROPOSED-PR	NCIA
Web Service Description Language (WSDL) 1.1	W3C NOTE-wsdl-20010315:2001	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Web Services Description Language (WSDL) Version 2.0 SOAP 1.1 Binding	W3C NOTE-wsdl20-soap11-binding-20070626:2007	FMN4-PROPOSED-PR	FMN CPWG
XHTML™ 1.0 in XML Schema	W3C note-xhtml1-schema-20020902:2002	FMN4-PROPOSED-PR	FMN CPWG
CSS Namespaces Module Level 3	W3C REC-css-namespaces-3-20140320:2014	FMN4-PROPOSED-PR	FMN CPWG
CSS Style Attributes	W3C REC-css-style-attr-20131107:2013	FMN4-PROPOSED-PR	FMN CPWG
Cascading Style Sheets, level 2 revision 1	W3C REC-CSS2-2011067:2011	FMN4-PROPOSED-PR	FMN CPWG
CSS Color Module Level 3	W3C REC-css3-color-20110607:2011	FMN4-PROPOSED-PR	FMN CPWG
Media Queries	W3C REC-css3-mediaqueries-20120619:2012	FMN4-PROPOSED-PR	FMN CPWG
Selectors Level 3	W3C REC-css3-selectors-20110929:2011	FMN4-PROPOSED-PR	FMN CPWG
Hypertext Markup Language revision 5 (HTML5)	W3C REC-html5-20141028:2014	FMN4-PROPOSED-PR	FMN CPWG
eXtensible Markup Language (XML) version 1.0 (Fifth Edition)	W3C REC-xml-20081126:2008	FMN4-PROPOSED-PR	FMN CPWG
XML Schema Part 1: Structures Second Edition	W3C REC-xmlschema-1-20041028:2004	FMN4-PROPOSED-PR	FMN CPWG
XML Schema Part 2: Datatypes Second Edition	W3C REC-xmlschema-2-20041028:2004	FMN4-PROPOSED-PR	FMN CPWG
<b>Web Presentation Services</b>			
Web Services for Remote Portlets Specification	OASIS wsrp-specification-2.0:2008	BSP	NCIA/CES
<b>Information Discovery Services</b>			
OpenSearch 1.1 Draft 6	Opensearch opensearch11d6:2005	BSP	FMN CPWG
<b>Information Access Services</b>			
MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)	IETF RFC 2557:2006	BSP	NCIA/CES

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
A Standards Based Approach for Geo-enabling RSS feeds, v1.0	OGC 06-050r3:2006	BSP	NCIA/AWG
XForms 1.0	W3C REC-xforms-20031014:2003	BSP	NCIA/CES
<b>Metadata Repository Services</b>			
Web Services Metadata Exchange (WS-MetadataExchange)	W3C REC-ws-metadata-exchange-20111213:2011	BSP	NCIA/CES
<b>Directory Services</b>			
Common Directory Services and Procedures	CCEB ACP 133(D):2009	BSP	C3B NACP CaT
Definition of the inetOrgPerson LDAP Object Class	IETF RFC 2798:2000	FMN4-PROPOSED-PR	FMN CPWG
LDAP Data Interchange Format (LDIF)	IETF RFC 2849:2000	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Technical Specification Road Map	IETF RFC 4510:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: The Protocol	IETF RFC 4511:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Directory Information Models	IETF RFC 4512:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Authentication Methods and Security Mechanisms	IETF RFC 4513:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: String Representation of Distinguished Names	IETF RFC 4514:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: String Representation of Search Filters	IETF RFC 4515:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Uniform Resource Locator	IETF RFC 4516:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Syntaxes and Matching Rules	IETF RFC 4517:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Internationalized String Preparation	IETF RFC 4518:2006	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Schema for User Applications	IETF RFC 4519:2006	FMN4-PROPOSED-PR	FMN CPWG
<b>Choreography Services</b>			



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
W3C Web Service Choreography Interface version 1.0	W3C NOTE-wsci-20020808:2002	BSP	NCIA/CES
<b>Mediation Services</b>			
Services to forward Friendly Force Information to Weapon Delivery Assets	NATO ADatP-37 Ed A ver 1:2018 / STANAG 5528 Ed 1	BSP	C3B CaP2
<b>Data Format Transformation Services</b>			
XML Query Language (XQuery)	W3C WD-xquery-20030502:2003	BSP	NCIA/CES
<b>Infrastructure Services</b>			
Real Time Control Protocol (RTCP) attribute in Session Description Protocol (SDP)	IETF RFC 3605:2003	BSP	NCIA/NSII
The Secure Real-time Transport Protocol (SRTP)	IETF RFC 3711:2004	BSP	FMN CPWG
NATO Imagery Interpretability Rating Scale (NIIRS)	NATO AIntP-07 Ed A Ver 1:2018 / STANAG 7194 Ed 2	BSP	MC, MCJSB, JINT JISRP
Distributed File System (DFS) DCE DFS	Open Group F209a:1997	BSP	NCIA/CES
<b>Authentication Services</b>			
A summary of the X.500(96) User Schema for Use with LDAPv3	IETF RFC 2256:1997	FMN4-PROPOSED-PR	FMN CPWG
Definition of the inetOrgPerson LDAP Object Class	IETF RFC 2798:2000	FMN4-PROPOSED-PR	FMN CPWG
Uniform Resource Identifiers (URI): Generic Syntax	IETF RFC 3986:2005	FMN4-PROPOSED-PR	FMN CPWG
LDAP: Schema for User Applications	IETF RFC 4519:2006	FMN4-PROPOSED-PR	FMN CPWG
Internet Message Format	IETF RFC 5322:2008	FMN4-PROPOSED-PR	NCIA
OASIS Security Services (SAML)	OASIS saml:2009	FMN4-PROPOSED-PR	NCIA
<b>Digital Certificate Services</b>			

Title	Pubnum	Profiles	Responsible Party
More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE)	IETF RFC 3526:2003	FMN4-PROPOSED-PR	FMN CPWG
Internet X.509 Public Key Infrastructure Certificate and CRL Profile	IETF RFC 5280:2008	FMN4-PROPOSED-PR	FMN CPWG
Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks	ITU-T X.509:2016	FMN4-PROPOSED-PR	FMN CPWG
Secure Hash Standard (SHS)	NIST FIPS PUB 180-4:2015	FMN4-PROPOSED-PR	C3B CaP4
Digital Signature Standard (DSS)	NIST FIPS PUB 186-4:2013	FMN4-PROPOSED-PR	FMN CPWG
Advanced Encryption Standard (AES)	NIST FIPS PUB 197:2001	FMN4-PROPOSED-PR	FMN CPWG
Recommendation for Pair-Wise Key-Establishment Schemes Using Discrete Logarithm Cryptography	NIST SP 800-56A Rev 3:2018	FMN4-PROPOSED-PR	FMN CPWG
Recommendation for Pair-Wise KeyEstablishment Schemes Using Integer Factorization Cryptography	NIST SP 800-56B Rev 1:2014	FMN4-PROPOSED-PR	FMN CPWG
<b>Virtualized Processing Services</b>			
Open Virtualization Format Specification, v.1.1	DMTF DSP0243 1.1:2013	FMN4-PROPOSED-PR	C3B CaP1
<b>Infrastructure Networking Services</b>			
Default Address Selection for Internet Protocol version 6 (IPv6)	IETF RFC 6724:2012	BSP	NCIA
Very high speed digital subscriber line transceivers 2 (VDSL2)	ITU-T G. 993-2:2011	BSP	NCIA/NSII
Server Message Block (SMB)	Microsoft MS-SMB - 20130118:2013	BSP	NCIA/CES
X/Open Network File System (C702 Protocols for Inter-working: XNFS, Version 3W)	Open Group C702:1998	BSP	NCIA/CES
DCE 1.1: Remote Procedure Call	Open Group C706:1997	BSP	NCIA/CES



Title	Pubnum	Profiles	Responsible Party
<b>Host Configuration Services</b>			
Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	IETF RFC 3315:2003	BSP	NCIA/NSII
IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6	IETF RFC 3633:2003	BSP	NCIA/NSII
<b>Data Transfer Services</b>			
FTP Extensions for IPv6 and NATs	IETF RFC 2428:1998	BSP	NCIA/NSII
<b>Domain Name Services</b>			
Domain names - concepts and facilities	IETF RFC 1034:1987	FMN4-PROPOSED-PR	FMN CPWG
Domain names - implementation and specification	IETF RFC 1035:1987	FMN4-PROPOSED-PR	FMN CPWG
Clarifications to the DNS Specification	IETF RFC 2181:1997	FMN4-PROPOSED-PR	FMN CPWG
A DNS RR for specifying the location of services (DNS SRV)	IETF RFC 2782:2000	FMN4-PROPOSED-PR	FMN CPWG
Distributing Authoritative Name Servers via Shared Unicast Addresses	IETF RFC 3258:2002	FMN4-PROPOSED-PR	FMN CPWG
DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	IETF RFC 3646:2003	BSP	NCIA/NSII
Network Information Service (NIS) Configuration Options for DHCPv6	IETF RFC 3898:2004	BSP	NCIA/NSII
A Method for Storing IPsec Keying Material in DNS	IETF RFC 4025:2005	BSP	NCIA/CS
Operation of Anycast Services	IETF RFC 4786:2006	FMN4-PROPOSED-PR	FMN CPWG
DNS Zone Transfer Protocol (AXFR)	IETF RFC 5936:2010	FMN4-PROPOSED-PR	FMN CPWG
DNS Transport over TCP - Implementation Requirements	IETF RFC 5966:2010	FMN4-PROPOSED-PR	FMN CPWG
Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services	IETF RFC 6382:2011	FMN4-PROPOSED-PR	FMN CPWG

Title	Pubnum	Profiles	Responsible Party
Multicast DNS	IETF RFC 6762:2013	BSP	NCIA/NSII
Extension Mechanisms for DNS (EDNS(0))	IETF RFC 6891:2013	FMN4-PROPOSED-PR	FMN CPWG
Architectural Considerations of IP Anycast	IETF RFC 7094:2014	FMN4-PROPOSED-PR	FMN CPWG
<b>Distributed Time Services</b>			
Network Time Protocol (NTP)	IETF RFC 5905:2010	FMN4-PROPOSED-PR	FMN CPWG
Standard-frequency and time-signal emissions. Annex 1: Coordinated universal time (UTC)	ITU-R TF 460-6:2002	FMN4-PROPOSED-PR	FMN CPWG
DCE 1.1: Time Services	Open Group C310:1994	BSP	NCIA/CES

<sup>1</sup>The SIP for Recognized Air Picture Data refers to ATDLP-5.18 Ed B Version 1 instead of ATDLP-5.18 Ed B Version 2

<sup>2</sup>Except Appendix B, List of Geographical Data Field Identifiers (DFIs)

### 1.3.3. Communications Services

Title	Pubnum	Profiles	Responsible Party
<b>Communications Services</b>			
Ultra-Wide Band	ECMA 368:2008	BSP	NCIA/NSII
Broadband Radio Access Networks (BRAN) HiperMAN	ETSI TS 102 624-1:2009	BSP	NCIA/NSII
ZigBee	IEEE 802.15.4:2005	BSP	NCIA/NSII
Mobile WiMax	IEEE 802.16e:2005	BSP	NCIA/NSII
Wireless Broadband	IEEE 802.16e:2004	BSP	NCIA/NSII
Multiple Spanning Trees	IEEE 802.1S:2002	BSP	NCIA/NSII
Mobile Broadband Wireless Access (Draft)	IEEE 802.20:2006	BSP	NCIA/NSII
Dynamic Source Routing (DSR) Draft- version 1.0	IETF draft-ietf-manet-dsr-09:2003	BSP	NCIA/NSII
Ad-hoc On-Demand Distance Vector Routing (AODV)	IETF RFC 3561:2003	BSP	NCIA/NSII
IPv6 over Low Power Wireless Personal Area Networks	IETF RFC 4919:2007	BSP	NCIA/NSII

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Technical Standards for an Automatic Radio Control System (ARCS) for HF Communication Links <sup>1</sup>	NATO Study (expected) STANAG 4538 Ed 2	BSP	C3B CaP1 Blos Comms
Interoperability Standard for Satellite SHF Deployable Terminals Control and Command Services	NATO STANAG 4706 Ed 1:2018	BSP	C3B CaP1 SATCOM CaT
Common Alerting Protocol Version 1.2	OASIS CAP 1.2:2010	BSP	NCIA/Sstrat/ Sea
The Open Grid Services Architecture (OGSA) version 1.5	OGF draft-ogf-ogsa-spec-1.5-011:2006	BSP	NCIA/CES
Wireless USB Specification	USB.ORG wusb:2005	BSP	NCIA/CES
<b>Communications Access Services</b>			
Tactical Data Exchange - Link 11/11B	NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG 5511 FT Ed 10	BSP	C3B CaP1 TDL CaT
Joint Range Extension Application Protocol (JREAP) <sup>1</sup>	NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4	BSP	C3B CaP1 TDL CaT
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup>	NATO Study (expected) STANAG 4175 Ed 6	BSP	C3B CaP1 TDL CaT
Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability - AEP-84 Edition A	NATO STANAG 4586 Ed 4:2017	BSP	CNAD, AC/141 NNAG, JCGUAS
<b>Network Access Control Services</b>			
<b>Tactical Messaging Access Services</b>			
Call Sign Book for Ships	CCEB ACP 113(AJ):2019	BSP	C3B NACP CaT
Information Assurance for Allied Communications and Information Systems	CCEB ACP 122(G):2015	BSP	C3B NACP CaT

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Address Indicating Groups - Instructions and Assignments	NATO ACP 100 NS-1(Q)	BSP	C3B NACP CaT
Instructions for the Life Cycle Management of Allied Communications Publications (ACPs), NATO Supplement-1	NATO ACP 198 NS-1(H):2014	BSP	C3B NACP CaT
Tactical Data Exchange - Link 11/11B	NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG 5511 FT Ed 10	BSP	C3B CaP1 TDL CaT
Tactical Data Exchange - Link 16	NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8	BSP	C3B CaP1 TDL CaT
Joint Range Extension Application Protocol (JREAP) <sup>1</sup>	NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4	BSP	C3B CaP1 TDL CaT
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup>	NATO Study (expected) STANAG 4175 Ed 6	BSP	C3B CaP1 TDL CaT
Standards for Data Forwarding between Tactical Data Systems	NATO Study (expected) STANAG 5616 Ed 7	BSP	C3B CaP1 TDL CaT
<b>IPv4 Routed Access Services</b>			
Host Extensions for IP Multicasting	IETF RFC 1112:1989	FMN4-PROPOSED-PR	FMN CPWG
Path MTU Discovery	IETF RFC 1191:1990	FMN4-PROPOSED-PR	FMN CPWG
Address Allocation for Private Internets	IETF RFC 1918:1996	FMN4-PROPOSED-PR	FMN CPWG
BGP Communities Attribute	IETF RFC 1997:1996	FMN4-PROPOSED-PR	FMN CPWG
Administratively Scoped IP Multicast	IETF RFC 2365:1998	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	IETF RFC 2474:1998	FMN4-PROPOSED-PR	FMN CPWG
Internet Group Management Protocol, Version 3	IETF RFC 3376:2002	FMN4-PROPOSED-PR	FMN CPWG
Multicast Source Discovery Protocol (MSDP)	IETF RFC 3618:2003	FMN4-PROPOSED-PR	FMN CPWG
Border Gateway Protocol 4 (BGP-4)	IETF RFC 4271:2006	FMN4-PROPOSED-PR	FMN CPWG
BGP Extended Communities Attribute	IETF RFC 4360:2006	FMN4-PROPOSED-PR	FMN CPWG
Configuration Guidelines for DiffServ Service Classes	IETF RFC 4594:2006	FMN4-PROPOSED-PR	FMN CPWG
Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan	IETF RFC 4632:2006	FMN4-PROPOSED-PR	FMN CPWG
Multiprotocol Extensions for BGP-4	IETF RFC 4760:2007	FMN4-PROPOSED-PR	FMN CPWG
The Generalized TTL Security Mechanism (GTSM)	IETF RFC 5082:2007	FMN4-PROPOSED-PR	FMN CPWG
Capabilities Advertisement with BGP-4	IETF RFC 5492:2009	FMN4-PROPOSED-PR	FMN CPWG
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 5771:2010	FMN4-PROPOSED-PR	FMN CPWG
Autonomous-System-Wide Unique BGP Identifier for BGP-4	IETF RFC 6286:2011	FMN4-PROPOSED-PR	FMN CPWG
Overview of the Internet Multicast Addressing Architecture	IETF RFC 6308:2011	FMN4-PROPOSED-PR	FMN CPWG
BGP Support for Four-Octet Autonomous System (AS) Number Space	IETF RFC 6793:2012	FMN4-PROPOSED-PR	FMN CPWG
IANA Registries for BGP Extended Communities	IETF RFC 7153:2014	FMN4-PROPOSED-PR	FMN CPWG
Revised Error Handling for BGP UPDATE Messages	IETF RFC 7606:2015	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 7761:2016	FMN4-PROPOSED-PR	FMN CPWG
Transmission of IP Packets over Ethernet Networks	IETF RFC 894:1984	FMN4-PROPOSED-PR	NCIA/NSII
Internet Standard Subnetting Procedure	IETF RFC 950:1985	FMN4-PROPOSED-PR	NCIA/NSII
Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks	ITU-T J.241:2005	FMN4-PROPOSED-PR	FMN CPWG
Performance objectives and procedures for provisioning and maintenance of IP-based networks	ITU-T M.2301:2002	FMN4-PROPOSED-PR	FMN CPWG
IP packet transfer and availability performance parameters	ITU-T Y.1540:2016	FMN4-PROPOSED-PR	FMN CPWG
Network performance objectives for IP-based services	ITU-T Y.1541:2011	FMN4-PROPOSED-PR	FMN CPWG
Framework for achieving end-to-end IP performance objectives	ITU-T Y.1542:2010	FMN4-PROPOSED-PR	FMN CPWG
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access	NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NATO STANAG 4711 Ed 1:2018	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT
IP QoS for the NII	NATO TN-1417	BSP	C3B CaP1 N&S CaT
<b>IPv6 Routed Access Services</b>			
Interoperability Point Quality of Service (IP QoS)	NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1	BSP	C3B CaP1 N&S CaT
<b>Transport Services</b>			
Routing Information Protocol next generation for IPv6 (RIPng)	IETF RFC 2080:1997	BSP	NCIA/NSII
IP Version 6 over PPP	IETF RFC 2472:1998	BSP	NCIA/NSII

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Generic Packet Tunneling in IPv6	IETF RFC 2473:1998	BSP	NCIA/NSII
Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing	IETF RFC 2545:1999	BSP	FMN CPWG
Stateless IP/ICMP Translation Algorithm (SIIT)	IETF RFC 2765:2000	BSP	NCIA/NSII
Mobility Support in IPv6	IETF RFC 3775:2004	BSP	NCIA/NSII
Using IPsec to Protect Mobile IPv6 Signaling Between Mobile Nodes and Home Agents	IETF RFC 3776:2004	BSP	NCIA/CS
Border Gateway Multicast Protocol (BGMP)	IETF RFC 3913:2004	BSP	NCIA/NSII
Protocol Independent Multicasting Dense Mode (PIM-DM)	IETF RFC 3973:2005	BSP	NCIA/NSII
Mobile IPv6 Fast Handovers	IETF RFC 5568:2009	BSP	NCIA/NSII
Simplified Multicast Forwarding (SMF)	IETF RFC 6621:2012	BSP	NCIA/NSII
BGP Support for Four-Octet Autonomous System (AS) Number Space	IETF RFC 6793:2012	BSP	FMN CPWG
IP QoS for the NII	NATO TN-1417	BSP	C3B CaP1 N&S CaT
<b>Transport CIS Security Services</b>			
<b>Packet-based Transport Services</b>			
Interface standard for LC connectors with protective housings related to IEC 61076-3-106	IEC 61754-20-100:2012	FMN4-PROPOSED-PR	FMN CPWG
IEEE Standard for Ethernet	IEEE 802.3:2018	FMN4-PROPOSED-PR	FMN CPWG
Host Extensions for IP Multicasting	IETF RFC 1112:1989	FMN4-PROPOSED-PR	FMN CPWG
Path MTU Discovery	IETF RFC 1191:1990	FMN4-PROPOSED-PR	FMN CPWG
Address Allocation for Private Internets	IETF RFC 1918:1996	FMN4-PROPOSED-PR	FMN CPWG



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Routing Information Protocol next generation for IPv6 (RIPng)	IETF RFC 2080:1997	FMN4-PROPOSED-PR	NCIA/NSII
RIP Version 2	IETF RFC 2453:1998	FMN4-PROPOSED-PR	FMN CPWG
Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	IETF RFC 2474:1998	FMN4-PROPOSED-PR	FMN CPWG
Generic Routing Encapsulation (GRE)	IETF RFC 2784:2000	FMN4-PROPOSED-PR	FMN CPWG
IP Encapsulating Security Payload (ESP)	IETF RFC 4303:2005	FMN4-PROPOSED-PR	FMN CPWG
Configuration Guidelines for DiffServ Service Classes	IETF RFC 4594:2006	FMN4-PROPOSED-PR	FMN CPWG
Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan	IETF RFC 4632:2006	FMN4-PROPOSED-PR	FMN CPWG
IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA)	IETF RFC 4754:2007	FMN4-PROPOSED-PR	C3B CaP4
Mobile IPv6 Support for Dual Stack Hosts and Routers	IETF RFC 5555:2009	BSP	NCIA/NSII
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 5771:2010	FMN4-PROPOSED-PR	FMN CPWG
Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2	IETF RFC 5903:2010	FMN4-PROPOSED-PR	FMN CPWG
Internet Key Exchange Protocol Version 2 (IKEv2)	IETF RFC 7296:2014	FMN4-PROPOSED-PR	FMN CPWG
Signature Authentication in the Internet Key Exchange Version 2 (IKEv2)	IETF RFC 7427:2015	FMN4-PROPOSED-PR	FMN CPWG
Generic Raw Public-Key Support for IKEv2	IETF RFC 7670:2016	FMN4-PROPOSED-PR	FMN CPWG
Ethernet Address Resolution Protocol	IETF RFC 826:1982	FMN4-PROPOSED-PR	NCIA/NSII
Transmission of IP Packets over Ethernet Networks	IETF RFC 894:1984	FMN4-PROPOSED-PR	NCIA/NSII



<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Internet Standard Subnetting Procedure	IETF RFC 950:1985	FMN4-PROPOSED-PR	NCIA/NSII
Information technology -- Generic cabling for customer premises -- Part 1: General requirements	ISO/IEC 11801-1:2017	FMN4-PROPOSED-PR	FMN CPWG
Characteristics of a single-mode optical fibre and cable	ITU-T G.652:2016	FMN4-PROPOSED-PR	FMN CPWG
Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks	ITU-T J.241:2005	FMN4-PROPOSED-PR	FMN CPWG
Performance objectives and procedures for provisioning and maintenance of IP-based networks	ITU-T M.2301:2002	FMN4-PROPOSED-PR	FMN CPWG
IP packet transfer and availability performance parameters	ITU-T Y.1540:2016	FMN4-PROPOSED-PR	FMN CPWG
Network performance objectives for IP-based services	ITU-T Y.1541:2011	FMN4-PROPOSED-PR	FMN CPWG
Framework for achieving end-to-end IP performance objectives	ITU-T Y.1542:2010	FMN4-PROPOSED-PR	FMN CPWG
Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access	NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1	FMN4-PROPOSED-PR	CNAD, AC/225 NAAG, LCGDSS
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NATO STANAG 4711 Ed 1:2018	FMN4-PROPOSED-PR	C3B CaP1 N&S CaT
IP QoS for the NII	NATO TN-1417	BSP	C3B CaP1 N&S CaT
<b>Packet Routing Services</b>			
Host Extensions for IP Multicasting	IETF RFC 1112:1989	FMN4-PROPOSED-PR	FMN CPWG
BGP Communities Attribute	IETF RFC 1997:1996	FMN4-PROPOSED-PR	FMN CPWG
Administratively Scoped IP Multicast	IETF RFC 2365:1998	FMN4-PROPOSED-PR	FMN CPWG

<b>Title</b>	<b>Pubnum</b>	<b>Profiles</b>	<b>Responsible Party</b>
Internet Group Management Protocol, Version 3	IETF RFC 3376:2002	FMN4-PROPOSED-PR	FMN CPWG
Multicast Source Discovery Protocol (MSDP)	IETF RFC 3618:2003	FMN4-PROPOSED-PR	FMN CPWG
Border Gateway Protocol 4 (BGP-4)	IETF RFC 4271:2006	FMN4-PROPOSED-PR	FMN CPWG
BGP Extended Communities Attribute	IETF RFC 4360:2006	FMN4-PROPOSED-PR	FMN CPWG
Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan	IETF RFC 4632:2006	FMN4-PROPOSED-PR	FMN CPWG
Multiprotocol Extensions for BGP-4	IETF RFC 4760:2007	FMN4-PROPOSED-PR	FMN CPWG
The Generalized TTL Security Mechanism (GTSM)	IETF RFC 5082:2007	FMN4-PROPOSED-PR	FMN CPWG
Capabilities Advertisement with BGP-4	IETF RFC 5492:2009	FMN4-PROPOSED-PR	FMN CPWG
IANA Guidelines for IPv4 Multicast Address Assignments	IETF RFC 5771:2010	FMN4-PROPOSED-PR	FMN CPWG
Autonomous-System-Wide Unique BGP Identifier for BGP-4	IETF RFC 6286:2011	FMN4-PROPOSED-PR	FMN CPWG
Overview of the Internet Multicast Addressing Architecture	IETF RFC 6308:2011	FMN4-PROPOSED-PR	FMN CPWG
BGP Support for Four-Octet Autonomous System (AS) Number Space	IETF RFC 6793:2012	FMN4-PROPOSED-PR	FMN CPWG
IANA Registries for BGP Extended Communities	IETF RFC 7153:2014	FMN4-PROPOSED-PR	FMN CPWG
Revised Error Handling for BGP UPDATE Messages	IETF RFC 7606:2015	FMN4-PROPOSED-PR	FMN CPWG
Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)	IETF RFC 7761:2016	FMN4-PROPOSED-PR	FMN CPWG
Interoperability Point Quality of Service (IP QoS)	NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1	BSP	C3B CaP1 N&S CaT

Title	Pubnum	Profiles	Responsible Party
Standard for Interconnection of IPv4 and IPv6 Networks at Mission Secret and Unclassified Security Levels	NATO AComP-5067 Ed A Ver 1 / STANAG (RD) 5067 Ed 2	BSP	C3B CaP1 N&S CaT
<b>Packet-based Aggregation Services</b>			
Interoperability Point Quality of Service (IP QoS)	NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1	BSP	C3B CaP1 N&S CaT
<b>Packet-based Broadcast Services</b>			
Interoperability Point Quality of Service (IP QoS)	NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1	BSP	C3B CaP1 N&S CaT
<b>Wireless LOS Mobile Transmission Services</b>			
Bluetooth Core Specification v5.0	Bluetooth SIG Core Version 5.0:2016	BSP	NCIA/NSII
<b>Wireless LOS Mobile Narrowband Transmission Services</b>			
Voice Coding Algorithm	NATO STANAG 4444 Ed 2:2015	BSP	C3B CaP1 Blos Comms
<b>Wireless LOS Mobile Wideband Transmission Services</b>			
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup>	NATO Study (expected) STANAG 4175 Ed 6	BSP	C3B CaP1 TDL CaT

<sup>1</sup>The extant edition is Ed 1<sup>2</sup>The extant edition is Ed 5

### 1.3.4. Extended C3 Taxonomy

009. The following table list taxonomy nodes, which will be part of a future version of the C3 taxonomy. They are part of this document, because stakeholders have decided to using an unofficial classification scheme for a specific purpose.

## 1.4. UNASSIGNED STANDARDS

010. The following standards have been declared candidate standards for NATO common funded systems. However, no information of how to map the standards to the C3 Taxonomy have been provided.

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## CHAPTER 2. CANDIDATE PROFILES

### 2.1. INTRODUCTION

011. The NATO Interoperability Standards and Profiles include the set of Candidate Profiles listed below.

**Table 2.1. Candidate Profiles**

Service Area	Title
<b>Abstract</b>	
<b>URI</b>	
<b>Federated Mission Networking</b>	Proposed FMN Spiral 4 Profile
This document defines the proposed Standards Profile for Federated Mission Networking (FMN) Spiral 4. The FMN Standards Profiles provides a suite of interoperability standards and other standardized profiles for interoperability of selected community of interest services, core services and communications services in a federation of mission networks. It places the required interoperability requirements, standards and specifications in context for FMN Affiliates.	
<a href="#">Proposed FMN Spiral 4 Profile</a>	FMN4

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