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## **ADatP-34**

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

#### **Volume 2**

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

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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.

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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<br>TMF000:2017 | SIP-FOR-SMC | FMN CPWG          |
| <b>Trouble Ticket REST API Specification R14.5.1 Interface</b>   | TM-FORUM<br>TMF621:2015 | SIP-FOR-SMC | FMN CPWG          |
| <b>Product Ordering API REST Specification R14.5.1 Interface</b> | TM-FORUM<br>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<br>TMF638:2016                        | SIP-FOR-SMC  | FMN CPWG            |
| TMF661 Trouble Ticket API Conformance Profile R16.5.1  | TM-FORUM<br>TMF661:2017                        | SIP-FOR-SMC  | FMN CPWG            |
| API REST Conformance Guidelines R15.5.1 Standard   | TM-FORUM<br>TR250:2016                         | SIP-FOR-SMC  | FMN CPWG            |
| <b>Architecture Management Application</b>   |  |              |                     |
| NATO Architecture Framework  | C3B ac322-<br>n2018-0002:2018                  | ARCHITECTURE | C3B Arch<br>iCaT    |
| Enterprise, systems and software - Architecture processes  | ISO/IEC/IEEE<br>42020:2019                     | ARCHITECTURE | C3B Arch<br>iCaT    |
| Enterprise, systems and software - Architecture Evaluation   | ISO/IEC/IEEE<br>42030:2019                     | ARCHITECTURE | C3B Arch<br>iCaT    |
| NATO Interoperability Standards and Profile eXchange Specification                                 | NATO AC/322-<br>D(2017)0007-U:2017             | BSP          | C3B IP iCaT         |
| Unified Architecture Framework 1.0 (UAF) Domain Meta Model (DMM)                                   | OMG<br>formal/2017-12-02:2017                  | ARCHITECTURE | C3B Arch<br>iCaT    |
| Unified Architecture Framework 1.0 (UAF) Domain Meta Model (DMM)                                   | OMG<br>formal/2017-12-02<br>DMM:2017           | ARCHITECTURE | C3B Arch<br>iCaT    |
| ArchiMate 3.1 Specification  | Open Group<br>c197:2019                        | ARCHITECTURE | C3B Arch<br>iCaT    |
| ArchiMate Model Exchange File Format for the ArchiMate Modeling Language 3.1                       | Open Group<br>c19c:2019                        | ARCHITECTURE | C3B Arch<br>iCaT    |
| <b>Joint Applications</b>  |  |              |                     |
| IFF Operational Procedures   | CCEB ACP<br>160(E):2004                        | BSP          | C3B NACP<br>CaT     |
| Policy and Procedures for the Management of IFF/SSR, NATO Supplement-1                             | NATO ACP 160<br>NS-1(G):2019                   | BSP          | C3B NACP<br>CaT     |
| Implementation Options and Guidance for integrating IFF Mk XIIA Mode 5 on Military Platforms (IOG) | NATO<br>AETP-11Bv1:2017 /<br>STANREG 5635 Ed 1 | BSP          | C3B CaP2<br>IFF CaT |
| Technical Characteristics of the IFF Mk XIIA System Part I:  | NATO STANAG<br>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 / JGSWG       |
| Navstar Global Positioning System (GPS)(PART I) Summary Of Performance Requirements   | NATO STANAG 4294 Ed 1 Part 1:1997                | BSP                   | C3B CaP2                 |
| Navstar Global Positioning System (GPS)(PART II) Summary Of Performance Requirements  | NATO STANAG 4294 Ed 2 Part 2:1999                | BSP                   | C3B CaP2                 |
| <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,   | NCIA                     |

| Title  | Pubnum                               | Profiles  | Responsible Party |
|--|--------------------------------------|---|-------------------|
|  |                                      | BINDING-OOXML-V2  |                   |
| 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-V2, BINDING-GENERIC-V2, BINDING-OOXML-V2 | C3B CaP1 DM CaT   |
| Metadata Binding - ADatP-4778 Edition A                      | NATO STANAG 4778 Ed 1:2018           | BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2, BINDING-OOXML-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          |

| Title                         | Pubnum                  | Profiles         | Responsible Party |
|-------------------------------|-------------------------|------------------|-------------------|
| 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>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-11Bv1:2017 / 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:  | NATO STANAG 4193 Ed 3 P1:2016                   | BSP      | C3B CaP2            |

| Title  | Pubnum   | Profiles | Responsible Party   |
|--|--|----------|---------------------|
| 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>Recognized Air Picture 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<br>TDL CaT |
| Tactical Data Exchange - Link 1 (Point-to-Point) - ATDLP-5.01 Edition A                          | NATO STANAG 5501 Ed 7:2015                         | BSP      | C3B CaP1<br>TDL CaT |
| Tactical Data Exchange - Link 11/11B   | NATO STANAG 5511 Ed 6:2008                         | BSP      | C3B CaP1<br>TDL CaT |
| Tactical Data Exchange - Link 16   | NATO STANAG 5516 Ed 4:2008                         | FMN3     | C3B CaP1<br>TDL CaT |
| Standard for Joint Range Extension Application Protocol (JREAP)                                  | NATO STANAG 5518 Ed 1:2014                         | BSP      | C3B CaP1<br>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<br>TDL CaT |
| NATO Improved Link Eleven (NILE) - Link 22   | NATO STANAG 5522 Ed 2:2008                         | BSP      | C3B CaP1<br>TDL CaT |
| <b>Recognized Maritime Picture Services</b>  |  |          |                     |
| Tactical Data Exchange - Link 11/11B   | NATO STANAG 5511 Ed 6:2008                         | BSP      | C3B CaP1<br>TDL CaT |
| Tactical Data Exchange - Link 16   | NATO STANAG 5516 Ed 4:2008                         | BSP      | C3B CaP1<br>TDL CaT |
| NATO Improved Link Eleven (NILE) - Link 22   | NATO STANAG 5522 Ed 2:2008                         | BSP      | C3B CaP1<br>TDL CaT |
| NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT)                                       | NATO TIDE/ NVG:2008                                | FMN3     | NCIA/C2             |

| <b>Title</b>   | <b>Pubnum</b>                                   | <b>Profiles</b> | <b>Responsible Party</b>        |
|--|---|-----------------|---------------------------------|
| Operational Specification for OVER-THE-HORIZON TARGETING GOLD (Revision C) (OTH-G)   | US DoD OTH-G Rev. C:1997                        | FMN2, FMN3      | FMN CPWG                        |
| <b>Meteorology Services</b>  |   |                 |                                 |
| NATO Military Oceanographic and Rapid Environmental Assessment Support Procedures  | NATO ATP 32 Ed E Ver 2:2019 / STANAG 1171 Ed 10 | BSP             | MC /<br>MCJSB /<br>METOC        |
| Warning and Reporting and Hazard Prediction of Chemical, Biological, Radiological and Nuclear Incidents (Operators Manual) | NATO ATP-45 Ed E Ver 1:2014 / STANAG 2103 Ed 11 | BSP             | MC,<br>MCJSB /<br>JCBRND<br>CDG |
| NATO Meteorological Codes Manual   | NATO AWP-4 Ed B:2005 / STANAG 6015 Ed 4         | BSP             | MC /<br>MCJSB /<br>METOC        |
| Specifications for Naval Mine Warfare Information and for Data Transfer - AMP-11 (Supplement) Edition A                    | NATO STANAG 1116 Ed 10:2014                     | BSP             | MC /<br>MCMSB /<br>NMW          |
| Adoption of a Standard Ballistic Meteorological Message  | NATO STANAG 4061 Ed 4:2000                      | BSP             | MC /<br>MCJSB /<br>METOC        |
| Adoption of a Standard Artillery Computer Meteorological Message   | NATO STANAG 4082 Ed 3:2012                      | BSP             | MC /<br>MCJSB /<br>METOC        |
| Format of Requests for Meteorological Messages for Ballistic and Special Purposes  | NATO STANAG 4103 Ed 4:2001                      | BSP             | MC /<br>MCJSB /<br>METOC        |
| Adoption of a Standard Target Acquisition Meteorological Message   | NATO STANAG 4140 Ed 2:2001                      | BSP             | MC /<br>MCJSB /<br>METOC        |
| Adoption of a Standard Gridded Data Meteorological Message   | NATO STANAG 6022 Ed 2:2010                      | BSP             | MC /<br>MCJSB /<br>METOC        |
| <b>COI-Enabling Services</b>   |   |                 |                                 |
| ECMAScript Language Specification ed.5.1:2011  | ECMA ECMA-262:2011                              | BSP             | FMN CPWG                        |
| ECMAScript for XML (E4X) Specification ed.2:2005   | ECMA ECMA-357:2005                              | BSP             | NCIA/CES                        |



| <b>Title</b>   | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b>  |
|--|--|-----------------|---------------------------|
| Representation of Dates and Times  | ISO 8601:2004                                      | BSP             | NCIA/Sstrat/<br>Sea       |
| MIP Information Model 5.0  | MIP MIM 5.0:2019                                   | BSP             | C3B CaP1<br>DM CaT        |
| NATO Standard Bar Code Symbologies   | NATO APP-44 Ed A:2010 / STANAG 4329 Ed 4           | BSP             | MC /<br>MCLSB /<br>AST    |
| Date and Time Formats  | W3C NOTE-datetime:1998                             | BSP             | NCIA/Sstrat/<br>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<br>TDL CaT       |
| Tactical Data Exchange - Link 11/11B   | NATO STANAG 5511 Ed 6:2008                         | BSP             | C3B CaP1<br>TDL CaT       |
| Tactical Data Exchange - Link 16   | NATO STANAG 5516 Ed 4:2008                         | FMN3            | C3B CaP1<br>TDL CaT       |
| Standard for Joint Range Extension Application Protocol (JREAP)                                  | NATO STANAG 5518 Ed 1:2014                         | BSP             | C3B CaP1<br>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<br>TDL CaT       |
| NATO Improved Link Eleven (NILE) - Link 22   | NATO STANAG 5522 Ed 2:2008                         | BSP             | C3B CaP1<br>TDL CaT       |
| Joint C3 Information Exchange Data Model (JC3IEDM)   | NATO STANAG 5525 Ed 1:2007                         | BSP             | C3B CaP1<br>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 /<br>MCJSB /<br>IERHWG |
| Military Telecommunications-Diagram Symbols  | NATO STANAG 5042 Ed 1:1978                         | BSP             | C3B CaP1                  |
| NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT)                                       | NATO TIDE/NVG:2008                                 | FMN3            | NCIA/C2                   |



| Title  | Pubnum  | Profiles | Responsible Party         |
|--|---|----------|---------------------------|
| Web Feature Service Implementation Specification                                 | OGC 04-094:2005   | BSP      | NCIA/Sstrat/Sea           |
| OpenGIS Symbology Encoding Implementation Specification                          | OGC 05-077r4:2007   | BSP      | MC /<br>MCJSB /<br>JGSWG  |
| <b>Tasking and Order Services</b>  |   |          |                           |
| Joint C3 Information Exchange Data Model (JC3IEDM)                               | NATO STANAG 5525 Ed 1:2007                                      | BSP      | C3B CaP1 DM CaT           |
| <b>Operations Information Services</b>   |   |          |                           |
| Joint C3 Information Exchange Data Model (JC3IEDM)                               | NATO STANAG 5525 Ed 1:2007                                      | FMN2     | C3B CaP1 DM CaT           |
| <b>Battlespace Event Services</b>  |   |          |                           |
| NATO Message Catalogue <sup>2</sup>  | NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6 | FMN3     | MC /<br>MCJSB /<br>IERHWG |
| Joint C3 Information Exchange Data Model (JC3IEDM)                               | NATO STANAG 5525 Ed 1:2007                                      | FMN2     | C3B CaP1 DM CaT           |
| <b>Battlespace Object Services</b>   |   |          |                           |
| Joint C3 Information Exchange Data Model (JC3IEDM)                               | NATO STANAG 5525 Ed 1:2007                                      | FMN3     | C3B CaP1 DM CaT           |
| <b>Track Management Services</b>   |   |          |                           |
| Guide to Electromagnetic Spectrum Management in military Operations              | CCEB ACP 190(D):2013  | BSP      | C3B NACP CaT              |
| Carrier Sense Multiple Access/ Collision Detect (CSMA/CD)                        | ISO/IEC 8802-3:2000   | BSP      | NCIA/NSII                 |
| SMADEF XML Documentation Rel.3.0.0   | NATO AC/322(SC/3)D(2007)0003-Rev5:2012                          | BSP      | NCIA/NSII                 |
| NATO Guide to Spectrum Management in Military Operations                         | NATO ACP 190 NS-1(C) :2015                                      | BSP      | C3B NACP CaT              |
| NATO Guide to Spectrum Management in Military Operations (Classified Supplement) | NATO ACP 190 NS-2(C) :2011                                      | BSP      | C3B NACP CaT              |

| Title  | Pubnum   | Profiles                              | Responsible Party   |
|--|--|---------------------------------------|---------------------|
| NATO Message Catalogue   | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6     | FMN2, FMN3                            | 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    |
| 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           |

<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          |
| <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-SAMLTOKENProfile:2006 | BSP      | C3B CaP4          |
| 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          |

| <b>Title</b>  | <b>Pubnum</b>              | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|----------------------------|------------------|--------------------------|
| 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 /<br>MCJSB /<br>NTG   |
| XEP-0004: Data Forms  | XMPP<br>XEP-0004:2007      | BSP              | FMN CPWG                 |
| XEP-0030: Service Discovery   | XMPP<br>XEP-0030:2008      | BSP              | FMN CPWG                 |
| <b>Informal Messaging Services</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                 |

| <b>Title</b>   | <b>Pubnum</b>      | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|--------------------|------------------|--------------------------|
| 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                 |
| 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                 |

| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|--------------------|------------------|--------------------------|
| 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                 |
| 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                 |

| <b>Title</b>  | <b>Pubnum</b>        | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|----------------------|------------------|--------------------------|
| <a href="#">X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP</a>                            | IETF RFC 6960:2013   | SIP-FOR-TLS      | FMN CPWG                 |
| <a href="#">The Transport Layer Security (TLS) Multiple Certificate Status Request Extension</a>                              | IETF RFC 6961:2013   | SIP-FOR-TLS      | FMN CPWG                 |
| <a href="#">Encrypt-then-MAC for Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)</a>              | IETF RFC 7366:2014   | SIP-FOR-TLS      | FMN CPWG                 |
| <a href="#">Security Labels in Internet Email</a>   | IETF RFC 7444:2015   | BINDING-SMTP-V2  | NCIA                     |
| <a href="#">Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)</a> | IETF RFC 7525:2015   | SIP-FOR-TLS      | FMN CPWG                 |
| <a href="#">Deprecating Secure Sockets Layer Version 3.0</a>  | IETF RFC 7568:2015   | SIP-FOR-TLS      | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension</a>                              | IETF RFC 7627:2015   | SIP-FOR-TLS      | FMN CPWG                 |
| <a href="#">Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)</a>                | IETF RFC 7919:2016   | SIP-FOR-TLS      | FMN CPWG                 |
| <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                 |
| <a href="#">Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)</a>                | ISO 19005-1:2005     | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2)</a>            | ISO 19005-2:2011     | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Document management -- Portable document format -- Part 1: PDF 1.7</a>  | ISO 32000-1:2008     | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Digital compression and coding of continuous-tone still images: Requirements and guidelines</a>                   | ISO/IEC 10918-1:1994 | FMN1, FMN2, FMN3 | FMN CPWG                 |



| <b>Title</b>   | <b>Pubnum</b>   | <b>Profiles</b>  | <b>Responsible Party</b>   |
|--|---|------------------|----------------------------|
| 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 |
| 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 |
| 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                   |



| <b>Title</b>  | <b>Pubnum</b>                 | <b>Profiles</b> | <b>Responsible Party</b>   |
|---|-------------------------------|-----------------|----------------------------|
| 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                   |
| 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                   |

| <b>Title</b>   | <b>Pubnum</b>                                   | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|---|------------------|--------------------------|
| <a href="#">Session Timers in the Session Initiation Protocol (SIP)</a>  | IETF RFC 4028:2005                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">A Framework for Conferencing with the Session Initiation Protocol (SIP)</a>                                    | IETF RFC 4353:2006                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events</a>                        | IETF RFC 4411:2006                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Communications Resource Priority for the Session Initiation Protocol (SIP)</a>                                 | IETF RFC 4412:2006                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">SDP: Session Description Protocol</a>  | IETF RFC 4566:2006                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents</a>                              | IETF RFC 4579:2006                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP)</a>            | IETF RFC 5366:2008                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">RTP Payload Format for H.264 Video</a>   | IETF RFC 6184:2011                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">SIP-Specific Event Notification</a>  | IETF RFC 6665:2012                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">RTP Topologies</a>   | IETF RFC 7667:2015                              | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Notation for national and international telephone numbers, e-mail addresses and web addresses</a>              | ITU-T E.123:2001                                | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">The international public telecommunication numbering plan</a>  | ITU-T E.164:2010                                | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Pulse code modulation (PCM) of voice frequencies</a>   | ITU-T G.711:1988                                | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">7 kHz Audio-Coding within 64 kbit/s</a>  | ITU-T G.722:2012                                | FMN1             | FMN CPWG                 |
| <a href="#">Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss</a>          | ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008 | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Call signalling protocols and media stream packetization for packet-based multimedia communication systems</a> | ITU-T H.225.0:2009                              | FMN1             | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>              | <b>Profiles</b>       | <b>Responsible Party</b> |
|---|----------------------------|-----------------------|--------------------------|
| 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                 |
| 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                 |

| <b>Title</b>  | <b>Pubnum</b>                  | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|--------------------------------|------------------|--------------------------|
| <a href="#">RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals</a>                           | IETF RFC 4733:2006             | FMN2, FMN3       | FMN CPWG                 |
| SCIP Signalling Plan rev.3.3  | CIS3 C&IP<br>SCIP-210:2010     | FMN2, FMN3       | C3B CaP1<br>N&S CaT      |
| Network-Specific Minimum Essential Requirements (MERs) for SCIP Devices, rev.1.2                              | CIS3 C&IP<br>SCIP-214:2010     | FMN2             | C3B CaP1<br>N&S CaT      |
| SCIP over RTP rev.1.0   | CIS3 C&IP<br>SCIP-214.2:2010   | FMN3             | C3B CaP1<br>N&S CaT      |
| Securing SIP Signaling - Use of TLS with SCIP   | CIS3 C&IP<br>SCIP-214.3:2014   | FMN3             | C3B CaP1<br>N&S CaT      |
| U.S. SCIP/IP Implementation Standard and MER Publication rev.2.2  | CIS3 C&IP<br>SCIP-215:2011     | FMN2             | C3B CaP1<br>N&S CaT      |
| Requirement Document  | CIS3 C&IP<br>SCIP-220:2006     | FMN2             | C3B CaP1<br>N&S CaT      |
| SCIP Minimum Implementation Profile (MIP) rev.3.0   | CIS3 C&IP<br>SCIP-221:2011     | FMN2             | C3B CaP1<br>N&S CaT      |
| SCIP Cryptography Specification - Main Module rev.1.1   | CIS3 C&IP<br>SCIP-233:2012     | FMN2             | C3B CaP1<br>N&S CaT      |
| Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0                        | CIS3 C&IP<br>SCIP-233.350:2012 | FMN3             | C3B CaP1<br>N&S CaT      |
| Secure MELP(e) Voice rev.1.1  | CIS3 C&IP<br>SCIP-233.501:2012 | FMN3             | C3B CaP1<br>N&S CaT      |
| Secure G.729D Voice Specification Rev. 1.1.   | CIS3 C&IP<br>SCIP-233.502:2011 | FMN3             | C3B CaP1<br>N&S CaT      |
| <a href="#">Notation for national and international telephone numbers, e-mail addresses and web addresses</a> | ITU-T E.123:2001               | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">The international public telecommunication numbering plan</a>                                     | ITU-T E.164:2010               | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Pulse code modulation (PCM) of voice frequencies</a>  | ITU-T G.711:1988               | FMN2, FMN3       | FMN CPWG                 |

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|--|---|------------------|----------------------------|
| 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 /<br>MCJSB /<br>IERHWG  |
| NATO Message Catalogue <sup>2</sup>  | NATO Study (expected) APP-11 Ed D Ver 2:2017 / STANAG 7149 Ed 6 | FMN3             | MC /<br>MCJSB /<br>IERHWG  |
| Captured Persons, Materiel And Documents - AJP-2.5(A)  | NATO STANAG 2195 Ed 2:2007                                      | FMN3             | MC /<br>MCJSB /<br>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 (LUVM) Pocket Book - ATP-97 Edition A                                      | NATO STANAG 2627 Ed 1:2016                                      | FMN3             | MC /<br>MCLSB /<br>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 |

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|---|-------------------------------|------------------|-------------------------------------|
| 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<br>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<br>N&S CaT                 |
| NATO standardization of measurement and signature intelligence (MASINT) Reporting - AEDP-16 Edition A | NATO STANAG (Study) 4716 Ed 1 | FMN3             | CNAD,<br>AC/224<br>NAFAG,<br>JCGISR |
| The NATO Military Communications Directory System   | NATO STANAG 5046 Ed 4:2015    | FMN1             | C3B CaP1<br>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                                |
| 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                            |

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|---|--------------------|-----------------------------|--------------------------|
| <a href="#">Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS)</a>  | IETF RFC 4492:2006 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS)</a>  | IETF RFC 5246:2008 | SIP-FOR-TLS                 | C3B CaP4                 |
| <a href="#">Internet X.509 Public Key Infrastructure Certificate and CRL Profile</a>  | IETF RFC 5280:2008 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Renegotiation Indication Extension</a>   | IETF RFC 5746:2010 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Extensions: Extension Definitions</a>  | IETF RFC 6066:2011 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">The Secure Sockets Layer (SSL) Protocol Version 3.0</a>   | IETF RFC 6101:2011 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">Extensible Messaging and Presence Protocol (XMPP): Core</a>   | IETF RFC 6120:2011 | BINDING-XMPP-V2, FMN2, FMN3 | NCIA                     |
| <a href="#">Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence</a>   | IETF RFC 6121:2011 | BINDING-XMPP-V2, FMN2, FMN3 | NCIA                     |
| <a href="#">Extensible Messaging and Presence Protocol (XMPP): Address Format</a>   | IETF RFC 6122:2011 | BINDING-XMPP-V2, FMN2, FMN3 | NCIA                     |
| <a href="#">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)</a> | IETF RFC 6125:2011 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">Prohibiting Secure Sockets Layer (SSL) Version 2.0</a>  | IETF RFC 6176:2011 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) Heartbeat Extension</a>   | IETF RFC 6520:2012 | SIP-FOR-TLS                 | FMN CPWG                 |
| <a href="#">X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP</a>  | IETF RFC 6960:2013 | SIP-FOR-TLS                 | FMN CPWG                 |



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|---|---|-----------------|----------------------------|
| 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        |
| 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 |
| 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                   |



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| 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-XMPP-V2  | C3B CaP1 DM CaT            |
| Metadata Binding - ADatP-4778 Edition A   | NATO STANAG 4778 Ed 1:2018    | BINDING-XMPP-V2  | C3B CaP1 DM CaT            |
| XEP-0004: Data Forms  | XMPP XEP-0004:2007            | FMN1, FMN2, FMN3 | FMN CPWG                   |
| XEP-0012: Last Activity   | XMPP XEP-0012:2008            | FMN2, FMN3       | FMN CPWG                   |
| XEP-0030: Service Discovery   | XMPP XEP-0030:2008            | FMN1, FMN2, FMN3 | FMN CPWG                   |
| 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                   |

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| XEP-0055: Jabber Search                                | XMPP<br>XEP-0055:2009 | FMN2, FMN3                         | FMN CPWG                 |
| XEP-0059: Result Set Management                        | XMPP<br>XEP-0059:2006 | FMN2                               | NCIA                     |
| XEP-0060: Publish-Subscribe                            | XMPP<br>XEP-0060:2010 | BINDING-<br>XMPP-V2,<br>FMN2, FMN3 | NCIA                     |
| XEP-0065: SOCKS5 Bytestreams                           | XMPP<br>XEP-0065:2011 | FMN2, FMN3                         | FMN CPWG                 |
| XEP-0082: XMPP Date and Time Profiles                  | XMPP<br>XEP-0082:2013 | FMN2                               | FMN CPWG                 |
| XEP-0092: Software Version                             | XMPP<br>XEP-0092:2007 | FMN1, FMN2,<br>FMN3                | FMN CPWG                 |
| XEP-0096: SI File Transfer                             | XMPP<br>XEP-0096:2004 | FMN1                               | FMN CPWG                 |
| XEP-0114: Jabber Component Protocol                    | XMPP<br>XEP-0114:2012 | FMN1, FMN2,<br>FMN3                | FMN CPWG                 |
| XEP-0115: Entity Capabilities                          | XMPP<br>XEP-0115:2008 | FMN1, FMN2,<br>FMN3                | FMN CPWG                 |
| XEP-0160: Best Practices for Handling Offline Messages | XMPP<br>XEP-0160:2016 | FMN2, FMN3                         | FMN CPWG                 |
| XEP-0198: Stream Management                            | XMPP<br>XEP-0198:2011 | FMN2, FMN3                         | NCIA                     |
| XEP-0199: XMPP Ping                                    | XMPP<br>XEP-0199:2009 | FMN2, FMN3                         | NCIA                     |
| XEP-0202: Entity Time                                  | XMPP<br>XEP-0202:2009 | FMN2, FMN3                         | NCIA                     |
| XEP-0203: Delayed Delivery                             | XMPP<br>XEP-0203:2009 | FMN1, FMN2,<br>FMN3                | FMN CPWG                 |
| XEP-0220: Server Dialback                              | XMPP<br>XEP-0220:2013 | FMN1, FMN2                         | FMN CPWG                 |
| XEP-0220: Server Dialback                              | XMPP<br>XEP-0220:2014 | FMN3                               | FMN CPWG                 |
| XEP-0258: Security Labels in XMPP                      | XMPP<br>XEP-0258:2013 | BINDING-<br>XMPP-V2,<br>FMN2, FMN3 | NCIA                     |

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| <a href="#">XEP-0313: Message Archive Management</a>  | XMPP<br>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<br>XEP-0004:2007 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0012: Last Activity</a>   | XMPP<br>XEP-0012:2008 | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">XEP-0030: Service Discovery</a>   | XMPP<br>XEP-0030:2008 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0045: Multi-User Chat</a>   | XMPP<br>XEP-0045:2012 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0047: In-Band Bytestreams</a>   | XMPP<br>XEP-0047:2012 | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">XEP-0049: Private XML Storage</a>   | XMPP<br>XEP-0049:2004 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0050: Ad-Hoc Commands</a>   | XMPP<br>XEP-0050:2005 | FMN1             | FMN CPWG                 |
| <a href="#">XEP-0054: vcard-temp</a>  | XMPP<br>XEP-0054:2008 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0055: Jabber Search</a>   | XMPP<br>XEP-0055:2009 | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">XEP-0059: Result Set Management</a>   | XMPP<br>XEP-0059:2006 | FMN2             | NCIA                     |

| <b>Title</b>   | <b>Pubnum</b>         | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|-----------------------|------------------|--------------------------|
| <a href="#">XEP-0060: Publish-Subscribe</a>                            | XMPP<br>XEP-0060:2010 | FMN2, FMN3       | NCIA                     |
| <a href="#">XEP-0065: SOCKS5 Bytestreams</a>                           | XMPP<br>XEP-0065:2011 | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">XEP-0082: XMPP Date and Time Profiles</a>                  | XMPP<br>XEP-0082:2013 | FMN2             | FMN CPWG                 |
| <a href="#">XEP-0092: Software Version</a>                             | XMPP<br>XEP-0092:2007 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0096: SI File Transfer</a>                             | XMPP<br>XEP-0096:2004 | FMN1             | FMN CPWG                 |
| <a href="#">XEP-0114: Jabber Component Protocol</a>                    | XMPP<br>XEP-0114:2012 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0115: Entity Capabilities</a>                          | XMPP<br>XEP-0115:2008 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0160: Best Practices for Handling Offline Messages</a> | XMPP<br>XEP-0160:2016 | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">XEP-0198: Stream Management</a>                            | XMPP<br>XEP-0198:2011 | FMN2, FMN3       | NCIA                     |
| <a href="#">XEP-0199: XMPP Ping</a>                                    | XMPP<br>XEP-0199:2009 | FMN2, FMN3       | NCIA                     |
| <a href="#">XEP-0202: Entity Time</a>                                  | XMPP<br>XEP-0202:2009 | FMN2, FMN3       | NCIA                     |
| <a href="#">XEP-0203: Delayed Delivery</a>                             | XMPP<br>XEP-0203:2009 | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">XEP-0220: Server Dialback</a>                              | XMPP<br>XEP-0220:2013 | FMN1, FMN2       | FMN CPWG                 |
| <a href="#">XEP-0220: Server Dialback</a>                              | XMPP<br>XEP-0220:2014 | FMN3             | FMN CPWG                 |
| <a href="#">XEP-0258: Security Labels in XMPP</a>                      | XMPP<br>XEP-0258:2013 | FMN2, FMN3       | NCIA                     |
| <a href="#">XEP-0313: Message Archive Management</a>                   | XMPP<br>XEP-0313:2017 | FMN2             | FMN CPWG                 |
| <b>Application Sharing Services</b>                                    |                       |                  |                          |
| <a href="#">Data Protocols for Multimedia Conferencing</a>             | ITU-T T.120:2007      | BSP              | NCIA/NSII                |
| <b>Geospatial Services</b>   |                       |                  |                          |

| <b>Title</b>  | <b>Pubnum</b>                                    | <b>Profiles</b> | <b>Responsible Party</b> |
|---|--|-----------------|--------------------------|
| NATO Geospatial Metadata Profile  | NATO AGeoP-08 Ed B Ver 1:2019 / STANAG 2586 Ed 2 | BSP             | MC /<br>MCJSB /<br>JGSWG |
| Additional Military Layers (AML) - Digital Geospatial Data Products           | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | BSP             | MC /<br>MCJSB /<br>JGSWG |
| Geodetic Datums, Projections, Grids and Grid References                       | NATO AGeoP-21 Ed A Ver 1:2016 / STANAG 2211 Ed 7 | BSP             | MC /<br>MCJSB /<br>JGSWG |
| 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 /<br>MCJSB /<br>JGSWG |
| Compressed ARC Digitized Raster Graphics (CADRG)                              | NATO STANAG 7098 Ed 2:2004                       | BSP             | MC /<br>MCJSB /<br>JGSWG |
| Controlled Imagery Base (CIB)   | NATO STANAG 7099 Ed 2:2004                       | BSP             | MC /<br>MCJSB /<br>JGSWG |
| 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                 |
| Open GIS Web Map Service Implementation Specification                         | OGC 06-042:2006                                  | BSP             | FMN CPWG                 |
| 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                 |

| <b>Title</b>   | <b>Pubnum</b>             | <b>Profiles</b>                         | <b>Responsible Party</b> |
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| <a href="#">Open GIS Web Map Service Implementation Specification</a>  | OGC 06-042:2006           | FMN2, FMN3                              | FMN CPWG                 |
| <b>Geospatial Web Feature Services</b>   |                           |   |                          |
| <a href="#">Geographic information - Web Feature Service</a>   | ISO 19142:2010            | FMN2                                    | FMN CPWG                 |
| <a href="#">OpenGIS Web Feature Service 2.0 Interface Standard</a>   | OGC 09-025r2:2006         | FMN2, FMN3                              | FMN CPWG                 |
| <b>Geospatial Web Coverage Services</b>  |                           |   |                          |
| <a href="#">Web Coverage Service Core (WCS):2012</a>   | OGC 09-110r4:2012         | BSP                                     | NCIA/JISR                |
| <b>Geospatial Web Map Tile Services</b>  |                           |   |                          |
| <a href="#">Geography Markup Language (GML) simple features profile Technical Note v 2.0</a>                   | OGC 11-044:2011           | FMN3                                    | FMN CPWG                 |
| <b>Content Management 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: 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="#">UTF-8, a transformation format of ISO/IEC 10646</a>  | IETF RFC 3629:2003        | FMN2, FMN3                              | FMN CPWG                 |
| <a href="#">Internet X.509 Public Key Infrastructure Certificate and CRL Profile</a>                           | IETF RFC 5280:2008        | BINDING-CRYPTO-V2                       | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>        | <b>Profiles</b>                         | <b>Responsible Party</b> |
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| 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                     |
| 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                     |

| <b>Title</b>   | <b>Pubnum</b>              | <b>Profiles</b>  | <b>Responsible Party</b> |
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| <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,<br>BINDING-CRYPTO-V2,<br>BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2,<br>BINDING-METADATA,<br>BINDING-OOXML-V2,<br>BINDING-REST-V2,<br>BINDING-SIDECAR-V2,<br>BINDING-SMTP-V2,<br>BINDING-SOAP,<br>BINDING-WSMP-V2,<br>BINDING-XMPP-V2 | C3B CaP1<br>DM CaT       |
| <a href="#">Metadata Binding - ADatP-4778 Edition A</a>  | NATO STANAG 4778 Ed 1:2018 | BINDING-COMMON-XML,<br>BINDING-CRYPTO-V2,<br>BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2,<br>BINDING-METADATA,<br>BINDING-OOXML-V2,  | C3B CaP1<br>DM CaT       |



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|  |   | BINDING-REST-V2,<br>BINDING-SIDECAR-V2,<br>BINDING-SMTP-V2,<br>BINDING-SOAP,<br>BINDING-WSMP-V2,<br>BINDING-XMPP-V2 |                   |
| 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              |
| 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              |
| 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-xml-stylesheet-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          |

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| <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-CRYPTO-V2, 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                       |
| Open XML SPIF   | XML SPIF xmlspif:2010                            | BINDING-CRYPTO-V2, COMMON-XML   | NCIA                       |
| <a href="#">XEP-0060: Publish-Subscribe</a>                                 | XMPP XEP-0060:2010                               | BINDING-XMPP-V2                 | NCIA                       |
| <a href="#">XEP-0258: Security Labels in XMPP</a>                           | XMPP XEP-0258:2013                               | BINDING-XMPP-V2                 | NCIA                       |
| <b>Formal Messaging Services</b>  |  |                                 |                            |
| <a href="#">Concept of NATO Message Text Formatting System (CONFORMETS)</a> | NATO ADatP-03 Ed A Ver 3:2019 / STANAG 5500 Ed 8 | BSP                             | C3B CaP1 MTF CaT           |
| <a href="#">NATO Secondary Imagery Format (NSIF)</a>                        | NATO AEDP-04 Ed A Ver 1:2013 / STANAG 4545 Ed 2  | BSP                             | CNAD, AC/224 NAFAG, JCGISR |
| <a href="#">NATO Message Catalogue</a>                                      | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6   | BSP                             | MC / MCJSB / IERHWG        |

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| 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>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                   |
| 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                       |

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

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| <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: 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                     |

| <b>Title</b>  | <b>Pubnum</b>              | <b>Profiles</b>   | <b>Responsible Party</b> |
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| <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,<br>BINDING-SMTP-V2   | NCIA                     |
| <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,<br>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,<br>BINDING-CRYPTO-V2,<br>BINDING-EXTENSIBLE-V2, BINDING-GENERIC-V2,<br>BINDING-METADATA,<br>BINDING-OOXML-V2,<br>BINDING-REST-V2, | C3B CaP1<br>DM CaT       |

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|  |  | BINDING-SIDECAR-V2,<br>BINDING-SMTP-V2,<br>BINDING-SOAP,<br>BINDING-WSMP-V2,<br>BINDING-XMPP-V2   |                    |
| Metadata Binding - ADatP-4778<br>Edition A         | NATO STANAG<br>4778 Ed 1:2018                | BINDING-COMMON-XML,<br>BINDING-CRYPTO-V2,<br>BINDING-EXTENSIBLE-V2,<br>BINDING-GENERIC-V2,<br>BINDING-METADATA,<br>BINDING-OOXML-V2,<br>BINDING-REST-V2,<br>BINDING-SIDECAR-V2,<br>BINDING-SMTP-V2,<br>BINDING-SOAP,<br>BINDING-WSMP-V2,<br>BINDING-XMPP-V2 | C3B CaP1<br>DM CaT |
| Context/value Association using<br>genericcode 1.0 | OASIS context-value-<br>association-1.0:2010 | BINDING-COMMON-XML  | NCIA               |
| Code List Representation<br>(Genericcode)          | OASIS cs-<br>genericcode-1.0:2007            | BINDING-COMMON-XML  | NCIA               |

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| 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                   |
| 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-xmlschema11-1-20120401:2012             | BINDING-COMMON-XML                      | NATO Archive Committee |
| XML Path Language 1.0  | W3C REC-xpath-19991119:1999                     | BINDING-CRYPTO-V2                       | NCIA                   |



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|---|----------------------------|--------------------|--------------------------|
| 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>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                 |

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| API REST Conformance Guidelines R15.5.1 Standard   | TM-FORUM TR250:2016                             | FMN2     | FMN CPWG          |
| <b>Service Discovery Services</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          |

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| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a> | IETF RFC 7230:2014                   | BSP              | NCIA/CES                 |
| <a href="#">Geolocation API Specification 2nd Edition</a>                          | W3C geolocation-API:2016             | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">HTML5 Differences from HTML4</a>                                       | W3C NOTE-html5-diff:2014             | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">Cascading Style Sheets, level 2 revision 1</a>                         | W3C REC-CSS2-2011067:2011            | BSP              | FMN CPWG                 |
| <a href="#">Hypertext Markup Language revision 5.2 (HTML5)</a>                     | W3C REC-html52:2017                  | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">Hypertext Markup Language revision 5.3 Editor's Draft (4.7)</a>        | W3C REC-html53-Draft:2018            | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">Media Source Extensions</a>  | W3C REC-media-source:2016            | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">Mobile Web Application Best Practices</a>                              | W3C REC-mwapp:2010                   | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">XML Information Set</a>  | W3C REC-xml-info:20011024:2001       | BSP              | NCIA/CES                 |
| <a href="#">Associating Style Sheets with XML documents, Version 1.0</a>           | W3C REC-xml-style:19990629:1999      | BSP              | NCIA/CES                 |
| <a href="#">eXtensible Markup Language (XML) version 1.0 (Fifth Edition)</a>       | W3C REC-xml:20081126:2008            | BSP              | FMN CPWG                 |
| <a href="#">XML Base</a>   | W3C REC-xmlbase-20010627:2001        | BSP              | NCIA/CES                 |
| <a href="#">Web Speech API</a>   | W3C speech-API:2018                  | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">DOM Parsing and Serialization</a>                                      | W3C WD-DOM-Parsing:2016              | SIP-FOR-WEB-APPS | FMN CPWG                 |
| <a href="#">Wireless Markup Language (WML) version 2</a>                           | WAPFORUM WAP-238-WML-20010911-a:2001 | BSP              | NCIA/CES                 |
| <b>Web Hosting Services</b>  |                                      |                  |                          |
| <a href="#">Uniform Resource Locators (URL)</a>                                    | IETF RFC 1738:1994                   | FMN1, FMN2, FMN3 | FMN CPWG                 |

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| 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                 |
| 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                 |

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| 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                 |
| 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                 |

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| 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                 |
| 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                 |
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| 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      |

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| Captured Persons, Materiel And Documents - AJP-2.5(A)   | NATO STANAG 2195 Ed 2:2007         | FMN3             | MC /<br>MCJSB /<br>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,<br>AC/224<br>NAFAG,<br>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,<br>AC/224<br>NAFAG,<br>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                            |



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| 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                 |
| 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-3-20140320:2014       | 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                 |



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| <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          |
| 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                         | 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-REST-V2, BINDING-SOAP           | C3B CaP1 DM CaT   |
| Metadata Binding - ADatP-4778 Edition A  | NATO STANAG 4778 Ed 1:2018         | BINDING-REST-V2, BINDING-SOAP           | C3B CaP1 DM CaT   |
| RSS 2.0 Specification  | RSS 2.0:2009                       | BSP                                     | FMN CPWG          |
| Simple Object Access Protocol (SOAP)   | W3C NOTE-SOAP-20000508:2000        | BINDING-SOAP                            | NCIA              |
| SOAP Version 1.2 Part 1: Messaging Framework   | W3C REC-soap12-part1-20030624:2003 | BINDING-SOAP                            | NCIA              |
| Extensible HyperText Markup Language, version 1  | W3C REC-xhtml1-20020801:2002       | BSP                                     | NCIA/CES          |
| XML-Signature Syntax and Processing (Second Edition)   | W3C REC-xmldsig-core-20080610:2008 | BINDING-SOAP                            | NCIA              |
| <b>Metadata Repository Services</b>  |                                    |   |                   |
| XML Signature Syntax and Processing (2nd ed.):2008   | W3C xmldsig-core:2008              | BSP                                     | NCIA/CES          |
| <b>Information Annotation Services</b>   |                                    |   |                   |
| XMP Specification Part 3, Storage in Files   | ADOBE XMP-part3-2016:2016          | BINDING-EXTENSIBLE-V2, BINDING-METADATA | NCIA              |

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| <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,<br>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                     |
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| <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                 |
| <a href="#">Security Labels in Internet Email</a>  | IETF RFC 7444:2015 | BINDING-REST-V2,                    | NCIA                     |

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| <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                     |
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| Code List Representation<br>(Genericcode)           | OASIS cs-<br>genericcode-1.0:2007                       | BINDING-<br>COMMON-XML   | NCIA               |
| Web Services Security: SOAP<br>Message Security 1.1 | OASIS wss-v1.1-<br>spec-os-<br>SOAPMessageSecurity:2006 | BINDING-<br>CRYPTO-V2  | NCIA/CES           |
| Simple Object Access Protocol<br>(SOAP)             | W3C NOTE-<br>SOAP-20000508:2000                         | BINDING-SOAP   | NCIA               |

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| <a href="#">XML Security Algorithm Cross-Reference</a>                       | W3C NOTE-xmlsec-algorithms-20130411:2013 | BINDING-CRYPTO-V2                       | NCIA                     |
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| <a href="#">RDF Primer</a>   | W3C REC-rdf-primer-20040210:2004         | BINDING-EXTENSIBLE-V2, BINDING-METADATA | NCIA                     |
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| <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                     |

| Title   | Pubnum                         | Profiles            | Responsible Party  |
|---|--------------------------------|---------------------|--------------------|
| <a href="#">XEP-0060: Publish-Subscribe</a>                                   | XMPP<br>XEP-0060:2010          | BINDING-<br>XMPP-V2 | NCIA               |
| <a href="#">XEP-0258: Security Labels in XMPP</a>                             | XMPP<br>XEP-0258:2013          | BINDING-<br>XMPP-V2 | NCIA               |
| <b>Directory Services</b>   |                                |                     |                    |
| <a href="#">Common Directory Services and Procedures</a>                      | CCEB ACP<br>133(C):2007        | BSP                 | C3B NACP<br>CaT    |
| <a href="#">Definition of the inetOrgPerson LDAP Object Class</a>             | IETF RFC 2798:2000             | FMN1, FMN2,<br>FMN3 | FMN CPWG           |
| <a href="#">LDAP Data Interchange Format (LDIF)</a>                           | IETF RFC 2849:2000             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Technical Specification Road Map</a>                        | IETF RFC 4510:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: The Protocol</a>  | IETF RFC 4511:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Directory Information Models</a>                            | IETF RFC 4512:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Authentication Methods and Security Mechanisms</a>          | IETF RFC 4513:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: String Representation of Distinguished Names</a>            | IETF RFC 4514:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: String Representation of Search Filters</a>                 | IETF RFC 4515:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Uniform Resource Locator</a>                                | IETF RFC 4516:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Syntaxes and Matching Rules</a>                             | IETF RFC 4517:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Internationalized String Preparation</a>                    | IETF RFC 4518:2006             | FMN1, FMN2          | FMN CPWG           |
| <a href="#">LDAP: Schema for User Applications</a>                            | IETF RFC 4519:2006             | FMN1, FMN2,<br>FMN3 | FMN CPWG           |
| <b>Relational Database Services</b>   |                                |                     |                    |
| <a href="#">Open Database Connectivity (ODBC) 3.8</a>                         | Microsoft MSDN-<br>ODBCPR:1996 | BSP                 | NCIA/CES           |
| <a href="#">Joint C3 Information Exchange Data Model (JC3IEDM)</a>            | NATO STANAG<br>5525 Ed 1:2007  | BSP                 | C3B CaP1<br>DM CaT |
| <b>Mediation Services</b>   |                                |                     |                    |
| <a href="#">Profile for the Use of S/MIME protocols Cryptographic Message</a> | NATO STANAG<br>4631 Ed 1:2008  | BSP                 | C3B CaP1           |

| Title   | Pubnum                                   | Profiles           | Responsible Party      |
|---|--|--------------------|------------------------|
| Syntax (CMS) and Enhanced Security Services (ESS) for S/MIME  |  |                    |                        |
| <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 validation - Schematron Second Edition   | ISO 19757-3:2016                         | BINDING-COMMON-XML | NCIA                   |
| 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-xmlschema11-1-20120406:2012      | 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               |



| <b>Title</b>  | <b>Pubnum</b>                                   | <b>Profiles</b> | <b>Responsible Party</b>   |
|---|---|-----------------|----------------------------|
| 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                   |
| 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                   |
| Exchange of Imagery   | NATO STANAG 3764 Ed 6:2015                      | BSP             | MC / MCJSB / JINT JISRP    |



| <b>Title</b>   | <b>Pubnum</b>              | <b>Profiles</b> | <b>Responsible Party</b>      |
|--|----------------------------|-----------------|-------------------------------|
| Parameters and Coding Standards for 800 bps Digital Speech Encoder/Decoder                                   | NATO STANAG 4479 Ed 1:2002 | BSP             | C3B CaP1<br>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 /<br>MCJSB /<br>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                      |
| 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                          |

| Title  | Pubnum                     | Profiles          | Responsible Party |
|--|----------------------------|-------------------|-------------------|
| 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 KeyEstablishment 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              |
| Internet X.509 Public Key Infrastructure Certificate and CRL Profile   | IETF RFC 5280:2008         | BINDING-CRYPTO-V2 | FMN CPWG          |

| Title   | Pubnum  | Profiles          | Responsible Party |
|---|---|-------------------|-------------------|
| <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="#">Additional XML Security Uniform Resource Identifiers (URIs)</a>                             | IETF RFC 6931:2013                              | BINDING-CRYPTO-V2 | NCIA              |
| <a href="#">JSON Web Signature (JWS)</a>  | IETF RFC 7515:2015                              | BINDING-CRYPTO-V2 | NCIA              |
| <a href="#">Confidentiality Metadata Label Syntax - ADatP-4774 Edition A</a>                            | NATO STANAG 4774 Ed 1:2017                      | BINDING-CRYPTO-V2 | C3B CaP1 DM CaT   |
| <a href="#">Metadata Binding - ADatP-4778 Edition A</a>   | NATO STANAG 4778 Ed 1:2018                      | BINDING-CRYPTO-V2 | C3B CaP1 DM CaT   |
| <a href="#">Web Services Security: SOAP Message Security 1.1</a>  | OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006 | BINDING-CRYPTO-V2 | NCIA/CES          |
| <a href="#">XML Security Algorithm Cross-Reference</a>  | W3C NOTE-xmlsec-algorithms-20130411:2013        | BINDING-CRYPTO-V2 | NCIA              |
| <a href="#">XML-Signature Syntax and Processing (Second Edition)</a>                                    | W3C REC-xmlldsig-core-20080610:2008             | BINDING-CRYPTO-V2 | NCIA              |
| <a href="#">Errata for XML Signature 2nd Edition</a>  | W3C REC-xmlldsig-core-20080610:2014             | BINDING-CRYPTO-V2 | NCIA              |
| <a href="#">XML Signature Syntax and Processing Version 1.1</a>   | W3C REC-xmlldsig-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 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              |
| <b>Infrastructure Processing Services</b>   |   |                   |                   |
| <a href="#">Open Virtualization Format Specification, v.2.0.1</a>                                       | DMTF DSP0243:2013                               | BSP               | C3B CaP1          |
| <a href="#">X Window System, Version 11, release 7.5:2009</a>   | X-CONSORTIUM X11R7.5:2009                       | BSP               | NCIA/CES          |
| <b>File System Storage Services</b>   |   |                   |                   |

| <b>Title</b>  | <b>Pubnum</b>       | <b>Profiles</b>  | <b>Responsible Party</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                 |
| 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               |
| 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<br>Blos Comms |

| <b>Title</b>   | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b>     |
|--|--|-----------------|------------------------------|
| 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<br>LOS Comms<br>CaT |
| Have Quick   | NATO STANAG 4246 Ed 3:2009                         | BSP             | C3B CaP1<br>LOS Comms<br>CaT |
| Characteristics of 1200/2400/ 3600 bps single tone modulators for HF Radio links   | NATO STANAG 4285 Ed 1:1989                         | BSP             | C3B CaP1<br>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<br>LOS Comms<br>CaT |
| Saturn   | NATO STANAG 4372 Ed 3:2008                         | BSP             | C3B CaP1<br>LOS Comms<br>CaT |
| Minimum Technical Equipment Standards For Naval HF Shore-to-Ship Broadcast Systems   | NATO STANAG 4481 Ed 1:2002                         | BSP             | C3B CaP1<br>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<br>Blos Comms       |
| Technical Standards for an Automatic Radio Control System (ARCS) for HF Communication Links  | NATO STANAG 4538 Ed 1:2009                         | BSP             | C3B CaP1<br>Blos Comms       |
| Digital Interoperability between UHF communications terminals - Integrated Waveform (IWF)  | NATO STANAG 4681 Ed 1:2015                         | BSP             | C3B CaP1<br>SATCOM<br>CaT    |
| Minimum Standards for Naval low Frequency (LF) Shore-to-Ship Surface Broadcast Systems   | NATO STANAG 5065 Ed 1:1999                         | BSP             | C3B CaP1<br>Blos Comms       |
| Profile for HF radio data communications   | NATO STANAG 5066 Ed 3:2015                         | BSP             | C3B CaP1<br>Blos Comms       |

| Title  | Pubnum   | Profiles | Responsible Party          |
|--|--|----------|----------------------------|
| <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               |
| Instructions For The Life Cycle Management Of Allied Communications Publications (ACPS)  | CCEB ACP 198(O):2018                               | BSP      | C3B NACP CaT               |



| <b>Title</b>   | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b> |
|--|--|-----------------|--------------------------|
| 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 200 V2(C):2010                            | BSP             | C3B NACP CaT             |
| Maritime And Mobile Tactical Wide Area Networking (MTWAN) In The Maritime Environment - Technical Guidance     | CCEB ACP 200 V2(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 100 NS-1(P):2009                          | BSP             | C3B NACP CaT             |
| NATO Routing Indicator Book, NATO Supplement-1   | NATO ACP 117 NS-1(R):2013                          | BSP             | C3B NACP CaT             |
| Handling of ATOMAL Information Within Classified Communications Centres, NATO Supplement-2                     | NATO ACP 122 NS-2(A):1979                          | BSP             | C3B NACP CaT             |
| NATO Naval and Maritime Air Communications Instructions and Organisation                                       | NATO ACP 176 NS-1(F):2018                          | BSP             | C3B NACP CaT             |
| Instructions for the Life Cycle Management of Allied Communications Publications (ACPs) - General & NATO Supps | NATO ACP 198 NS-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         |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & II           | NATO STANAG 4175 Ed 5:2014                         | BSP             | C3B CaP1 TDL CaT         |



| <b>Title</b>   | <b>Pubnum</b>              | <b>Profiles</b> | <b>Responsible Party</b> |
|--|----------------------------|-----------------|--------------------------|
| NATO Multi-channel Tactical Digital Gateway - System Standards   | NATO STANAG 4206 Ed 3:1999 | BSP             | C3B CaP1<br>N&S CaT      |
| NATO Multi-channel Digital Gateway-Multiplex Group Framing Standards   | NATO STANAG 4207 Ed 3:2000 | BSP             | C3B CaP1<br>N&S CaT      |
| International Routing and Directory for Tactical Communications Systems  | NATO STANAG 4214 Ed 2:2005 | BSP             | C3B CaP1<br>N&S CaT      |
| The NATO Military Communications Directory System  | NATO STANAG 5046 Ed 4:2015 | BSP             | C3B CaP1<br>N&S CaT      |
| Tactical Data Exchange - Link 11/11B   | NATO STANAG 5511 Ed 6:2008 | BSP             | C3B CaP1<br>TDL CaT      |
| Standard for Joint Range Extension Application Protocol (JREAP)  | NATO STANAG 5518 Ed 1:2014 | BSP             | C3B CaP1<br>TDL CaT      |
| NATO Improved Link Eleven (NILE) - Link 22   | NATO STANAG 5522 Ed 2:2008 | BSP             | C3B CaP1<br>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<br>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>   |                            |                 |                          |
| Host Extensions for IP Multicasting  | IETF RFC 1112:1989         | FMN1, FMN3      | FMN2, FMN CPWG           |
| BGP Communities Attribute  | IETF RFC 1997:1996         | FMN1, FMN3      | FMN2, FMN CPWG           |

| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|--------------------|------------------|--------------------------|
| 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                 |
| 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                 |

| <b>Title</b>   | <b>Pubnum</b>              | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|----------------------------|------------------|--------------------------|
| <a href="#">Autonomous-System-Wide Unique BGP Identifier for BGP-4</a>   | IETF RFC 6286:2011         | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Overview of the Internet Multicast Addressing Architecture</a>   | IETF RFC 6308:2011         | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services</a>                            | IETF RFC 6382:2011         | FMN2             | FMN CPWG                 |
| <a href="#">BGP Support for Four-Octet Autonomous System (AS) Number Space</a>   | IETF RFC 6793:2012         | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Architectural Considerations of IP Anycast</a>   | IETF RFC 7094:2014         | FMN2             | FMN CPWG                 |
| <a href="#">IANA Registries for BGP Extended Communities</a>   | IETF RFC 7153:2014         | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Revised Error Handling for BGP UPDATE Messages</a>   | IETF RFC 7606:2015         | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)</a>                            | IETF RFC 7761:2016         | FMN2, FMN3       | FMN CPWG                 |
| <a href="#">Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks</a> | ITU-T J.241:2005           | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Performance objectives and procedures for provisioning and maintenance of IP-based networks</a>                        | ITU-T M.2301:2002          | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">IP packet transfer and availability performance parameters</a>   | ITU-T Y.1540:2016          | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Network performance objectives for IP-based services</a>   | ITU-T Y.1541:2011          | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Framework for achieving end-to-end IP performance objectives</a>   | ITU-T Y.1542:2010          | FMN1, FMN2, FMN3 | FMN CPWG                 |
| <a href="#">Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A</a>  | NATO STANAG 4711 Ed 1:2018 | FMN3             | C3B CaP1<br>N&S CaT      |
| <b>Native Circuit-based Access Services</b>  |                            |                  |                          |

| <b>Title</b>  | <b>Pubnum</b>              | <b>Profiles</b> | <b>Responsible Party</b> |
|---|----------------------------|-----------------|--------------------------|
| The NATO Military Communications Directory System                                       | NATO STANAG 5046 Ed 4:2015 | BSP             | C3B CaP1<br>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<br>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                |
| Multicast Source Discovery Protocol (MSDP)  | IETF RFC 3618:2003         | BSP             | FMN CPWG                 |
| Virtual Router Redundancy Protocol  | IETF RFC 3768:2004         | BSP             | NCIA/NSII                |

| <b>Title</b>  | <b>Pubnum</b>                                      | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|--|------------------|--------------------------|
| 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 2.0   | Microsoft  | 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<br>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                 |
| IEEE Standard for Ethernet  | IEEE 802.3:2018                                    | FMN3             | FMN CPWG                 |
| IP Encapsulation within IP  | IETF RFC 2003:1996                                 | BSP              | NCIA/NSII                |

| <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 | 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                |
| Requirements for Internet Hosts - Communication Layers                                    | IETF STD 89:1989   | BSP              | NCIA/NSII                |

| <b>Title</b>   | <b>Pubnum</b>              | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|----------------------------|------------------|--------------------------|
| 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<br>N&S CaT      |
| Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A  | NATO STANAG 4711 Ed 1:2018 | FMN3             | C3B CaP1<br>N&S CaT      |
| <b>Circuit-based Transport Services</b>  |                            |                  |                          |
| The NATO Military Communications Directory System  | NATO STANAG 5046 Ed 4:2015 | BSP              | C3B CaP1<br>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                 |
| The Internet Multicast Address Allocation Architecture   | IETF RFC 2908:2000         | FMN1             | FMN CPWG                 |



| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b>  | <b>Responsible Party</b> |
|---|--------------------|------------------|--------------------------|
| 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                 |
| BGP Support for Four-Octet Autonomous System (AS) Number Space                              | IETF RFC 6793:2012 | FMN2, FMN3       | FMN CPWG                 |



| <b>Title</b>   | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b> |
|--|--|-----------------|--------------------------|
| 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<br>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<br>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<br>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<br>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<br>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<br>N&S CaT      |
| <b>Wired Wide 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<br>N&S CaT      |

| Title  | Pubnum   | Profiles | Responsible Party            |
|--|--|----------|------------------------------|
| <b>Wireless LOS Mobile Transmission Services</b>   |  |          |                              |
| Bluetooth 4.2  | Bluetooth SIG<br>bluetooth42:2014                        | BSP      | NCIA/NSII                    |
| <b>Wireless LOS Mobile Narrowband Transmission Services</b>  |  |          |                              |
| Technical standards for single channel UHF radio equipment   | NATO AComP-4205<br>Ed A Ver 1:2018 /<br>STANAG 4205 Ed 4 | BSP      | C3B CaP1<br>LOS Comms<br>CaT |
| Technical standards for single channel HF radio equipment  | NATO STANAG<br>4203 Ed 3:2007                            | BSP      | C3B CaP1<br>Blos Comms       |
| Technical standards for single channel VHF radio equipment   | NATO STANAG<br>4204 Ed 3:2008                            | BSP      | C3B CaP1<br>LOS Comms<br>CaT |
| Overall Super High Frequency (SHF) Military Satellite Communications (MILSATCOM) Interoperability Standards  | NATO STANAG<br>4484 Ed 3:2015                            | BSP      | C3B CaP1<br>SATCOM<br>CaT    |
| <b>Wireless LOS Mobile Wideband Transmission Services</b>  |  |          |                              |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & II   | NATO STANAG<br>4175 Ed 5:2014                            | BSP      | C3B CaP1<br>TDL CaT          |
| <b>Wireless BLOS Static Wideband Transmission Services</b>   |  |          |                              |
| Interoperability standard for Satellite Broadcast Services (SBS))  | NATO STANAG<br>4622 Ed 1:2018                            | BSP      | C3B CaP1<br>SATCOM<br>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<br>Ed A Ver 1:2016 /<br>STANAG 4486 Ed 4 | BSP      | C3B CaP1<br>SATCOM<br>CaT    |
| Digital interoperability between EHF Tactical Satellite Communications Terminals   | NATO STANAG<br>4233 Ed 1:1998                            | BSP      | C3B CaP1<br>SATCOM<br>CaT    |

| Title   | Pubnum                     | Profiles | Responsible Party   |
|---|----------------------------|----------|---------------------|
| 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. Cloud Services

| Title   | Pubnum             | Profiles | Responsible Party |
|---|--------------------|----------|-------------------|
| <b>Virtualisation</b>   |                    |          |                   |
| Open Virtualization Format (OVF) specification                              | ISO/IEC 17203:2011 | BSP      | NCIA/CES          |
| <b>Cloud Computing</b>  |                    |          |                   |
| 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          |
| Information technology - Cloud Data Management Interface (CDMI)             | ISO/IEC 17826:2012 | BSP      | NCIA/CES          |
| Information Technology - Cloud Computing - Interoperability and Portability | ISO/IEC AWI 19941  | BSP      | NCIA/CES          |
| Information technology - Cloud Data Management Interface (CDMI)             | ISO/IEC CD 17826   | BSP      | NCIA/CES          |

| Title  | Pubnum                | Profiles | Responsible Party |
|--|-----------------------|----------|-------------------|
| Information technology - Distributed Application Platforms and Services (DAPS) - General technical principles of Service Oriented Architecture | ISO/IEC 30102:2012 TR | BSP      | NCIA/Sstrat/Sea   |
| Information Technology -- Cloud Computing -- Data and their Flow across Devices and Cloud Services   | ISO/IEC WD 19944      | BSP      | NCIA/CES          |
| <b>IT Infrastructure Management</b>  |                       |          |                   |
| Web Services for Management (WS-Management) Specification  | ISO/IEC 17963:2013    | BSP      | NCIA/SMC          |

### 3.3.4.2. 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          |
| 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 | IETF RFC 6125:2011 | SIP-FOR-TLS | FMN CPWG          |

| Title   | Pubnum             | Profiles    | Responsible Party |
|---|--------------------|-------------|-------------------|
| Infrastructure Using X.509 (PKIX) 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          |

### 3.3.4.3. Archive Profile

| Title  | Pubnum | Profiles | Responsible Party |
|--|--------|----------|-------------------|
| <b>Data sets (e.g. scientific data) and any structured information not fitting other content types</b> |        |          |                   |

| <b>Title</b>  | <b>Pubnum</b>                       | <b>Profiles</b> | <b>Responsible Party</b> |
|---|-------------------------------------|-----------------|--------------------------|
| Common Format and MIME Type for Comma-Separated Values (CSV) Files  | IETF RFC 4180:2005                  | ARCHIVE-ARCHIVE | NCIA/CES                 |
| 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>Database content</b>   |                                     |                 |                          |
| Database languages - SQL - Part 1: Framework  | ISO/IEC 9075-1:2011                 | ARCHIVE-ARCHIVE | NCIA/Sstrat/Sea          |
| <b>Geospatial information (e.g. GIS data)</b>   |                                     |                 |                          |
| OGC KML   | OGC 07-147r2:2008                   | ARCHIVE-ARCHIVE | FMN CPWG                 |
| OGC GeoPackage Encoding Standard V1.0.  | OGC 12-128r10:2004                  | ARCHIVE-ARCHIVE | NCIA/AWG                 |
| <b>Video files</b>  |                                     |                 |                          |
| Generic coding of moving pictures and associated audio information: Video   | ISO/IEC 13818-2:2000                | 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                 |
| <b>Audio files</b>  |                                     |                 |                          |
| Specification of the Broadcast Wave Format (BWF) - Version 2  | EBU Tech 3285:2011                  | ARCHIVE-ARCHIVE | NATO Archive Committee   |
| 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                |

| <b>Title</b>  | <b>Pubnum</b>               | <b>Profiles</b> | <b>Responsible Party</b> |
|---|-----------------------------|-----------------|--------------------------|
| Generic coding of moving pictures and associated audio information -- Part 3: Audio         | ISO/IEC 13818-3:1998        | ARCHIVE-ARCHIVE | NCIA/CES                 |
| <b>Raster images</b>  |                             |                 |                          |
| TIFF Revision 6.0   | ADOBE tiff:1992             | ARCHIVE-ARCHIVE | NATO Archive Committee   |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines | ISO/IEC 10918-1:1994        | ARCHIVE-ARCHIVE | FMN CPWG                 |
| JPEG 2000 image coding system: Core coding system   | ISO/IEC 15444-1:2004        | ARCHIVE-ARCHIVE | NCIA/JISR                |
| <b>Vector images</b>  |                             |                 |                          |
| Scalable Vector Graphics (SVG) 1.1 Specification (Second Edition)                           | W3C REC-SVG11-20110816:2011 | ARCHIVE-ARCHIVE | NATO Archive Committee   |
| <b>Text documents, including common MS Office document formats (docx, xlsx, pptx)</b>       |                             |                 |                          |
| Document management -- Portable document format -- Part 1: PDF 1.7                          | ISO 32000-1:2008            | ARCHIVE-ARCHIVE | FMN CPWG                 |
| <b>Email (e.g. MS Outlook PST files)</b>  |                             |                 |                          |
| The application/mbox Media Type   | IETF RFC 4155:2005          | ARCHIVE-ARCHIVE | NCIA/CES                 |
| <b>Chat (e.g. JChat conversations)</b>  |                             |                 |                          |
| The application/mbox Media Type   | IETF RFC 4155:2005          | ARCHIVE-ARCHIVE | NCIA/CES                 |
| Document management -- Portable document format -- Part 1: PDF 1.7                          | ISO 32000-1:2008            | ARCHIVE-ARCHIVE | FMN CPWG                 |
| <b>Web sites and portals</b>  |                             |                 |                          |
| MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)                             | IETF RFC 2557:2006          | ARCHIVE-ARCHIVE | NCIA/CES                 |
| Information and documentation - WARCfile format.  | ISO 28500:2009              | ARCHIVE-ARCHIVE | NATO Archive Committee   |



### 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.

| Title  | Pubnum                   | Profiles                     | Responsible Party |
|--|--------------------------|------------------------------|-------------------|
| <b>Undefined Taxonomy Node</b>   |                          |                              |                   |
| Common Directory Services and Procedures   | CCEB ACP 133(C):2007     | SIP-ENTR-DIR                 | C3B NACP CaT      |
| WS-Federation: Passive Requestor Profile   | IBM passive-request:2003 | SIP-TOKEN                    | NCIA              |
| MIME - Part 2: Media Types   | IETF RFC 2046:1996       | FMN2, SIP-REST-MSG           | FMN CPWG          |
| HyperText Transfer Protocol (HTTP), version 1.1  | IETF RFC 2616:1999       | FMN2, SIP-REST, SIP-REST-MSG | FMN CPWG          |
| HTTP Authentication: Basic and Digest Access Authentication  | IETF RFC 2617:1999       | FMN2, SIP-REST               | NCIA              |
| Definition of the inetOrgPerson LDAP Object Class  | IETF RFC 2798:2000       | SIP-ENTR-DIR                 | FMN CPWG          |
| XML Media Types  | IETF RFC 3023:2001       | FMN2, SIP-REST-MSG           | NCIA              |
| Uniform Resource Identifiers (URI): Generic Syntax   | IETF RFC 3986:2005       | FMN2, SIP-REST-MSG           | FMN CPWG          |
| The Kerberos Network Authentication Service (V5)   | IETF RFC 4120:2005       | FMN2, SIP-REST               | FMN CPWG          |
| The Kerberos Version 5 Generic Security Service Application Program Interface (GSS-API) Mechanism: Version 2 | IETF RFC 4121:2005       | SIP-BCS                      | FMN CPWG          |
| Simple Authentication and Security Layer (SASL)  | IETF RFC 4422:2006       | SIP-BCS                      | FMN CPWG          |
| Anonymous Simple Authentication and Security Layer (SASL) Mechanism  | IETF RFC 4505:2006       | SIP-BCS                      | FMN CPWG          |
| LDAP: Technical Specification Road Map   | IETF RFC 4510:2006       | SIP-ENTR-DIR                 | FMN CPWG          |
| LDAP: The Protocol   | IETF RFC 4511:2006       | SIP-ENTR-DIR                 | FMN CPWG          |



| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b>            | <b>Responsible Party</b> |
|---|--------------------|----------------------------|--------------------------|
| LDAP: Directory Information Models  | IETF RFC 4512:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: Authentication Methods and Security Mechanisms                                    | IETF RFC 4513:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: String Representation of Distinguished Names                                      | IETF RFC 4514:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: String Representation of Search Filters   | IETF RFC 4515:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: Uniform Resource Locator  | IETF RFC 4516:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: Syntaxes and Matching Rules   | IETF RFC 4517:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: Internationalized String Preparation  | IETF RFC 4518:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| LDAP: Schema for User Applications  | IETF RFC 4519:2006 | SIP-ENTR-DIR               | FMN CPWG                 |
| SPNEGO-based Kerberos and NTLM HTTP Authentication in Microsoft Windows                 | IETF RFC 4559:2006 | FMN2, SIP-REST             | NCIA                     |
| The PLAIN Simple Authentication and Security Layer (SASL) Mechanism                     | IETF RFC 4616:2006 | SIP-BCS                    | FMN CPWG                 |
| The application/json Media Type for JavaScript Object Notation (JSON)                   | IETF RFC 4627:2006 | FMN2, SIP-REST-MSG         | FMN CPWG                 |
| The Kerberos v5 Simple Authentication and Security Layer (SASL) Mechanism               | IETF RFC 4752:2006 | SIP-BCS                    | FMN CPWG                 |
| Transport Layer Security (TLS)  | IETF RFC 5246:2008 | FMN2, SIP-BCS, SIP-REST    | C3B CaP4                 |
| Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification | IETF RFC 5751:2010 | FMN2, SIP-REST             | NCIA                     |
| Extensible Messaging and Presence Protocol (XMPP): Core                                 | IETF RFC 6120:2011 | SIP-BCS, SIP-MESG-COL-SERV | NCIA                     |
| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence       | IETF RFC 6121:2011 | SIP-BCS, SIP-MESG-COL-SERV | NCIA                     |

| <b>Title</b>   | <b>Pubnum</b>                                   | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|---|--|--------------------------|
| Extensible Messaging and Presence Protocol (XMPP): Address Format  | IETF RFC 6122:2011                              | SIP-BCS, SIP-MESG-COL-SERV   | NCIA                     |
| The OAuth 2.0 Authorization Framework  | IETF RFC 6749:2012                              | FMN2, REST   | NCIA                     |
| The OAuth 2.0 Authorization Framework: Bearer Token Usage  | IETF RFC 6750:2012                              | FMN2, REST   | NCIA                     |
| Assertion Framework for OAuth 2.0 Client Authentication and Authorization Grants                                   | IETF RFC 7521:2015                              | FMN2, REST   | NCIA                     |
| Security Assertion Markup Language (SAML) 2.0 Profile for OAuth 2.0 Client Authentication and Authorization Grants | IETF RFC 7522:2015                              | FMN2, REST   | NCIA                     |
| WS-BrokeredNotification 1.3  | OASIS wsn-ws_brokered_notification-spec-os:2006 | SIP-NOTIF-CACHE, SIP-PUBSUB, SIP-PUBSUB-NOTIF-BROOKER                            | NCIA/CES                 |
| OASIS Security Services (SAML)   | OASIS saml:2009                                 | FMN2, SIP-POLICY-ENFORCE, SIP-REST, SIP-SEC                                      | NCIA                     |
| WS-BaseNotification  | OASIS ws-notif:2006                             | SIP-NOTIF-CACHE, SIP-PUBSUB, SIP-PUBSUB-NOTIF-BROOKER, SIP-PUBSUB-NOTIF-CONSUMER | NCIA/CES                 |
| WS-Topics 1.3  | OASIS wsn-ws_topics-1.3-spec-os:2006            | SIP-PUBSUB, SIP-PUBSUB-NOTIF-BROOKER   | NCIA/CES                 |
| Web Services Federation Language (WS-Federation) Version 1.1   | OASIS wsfed-1.1:2006                            | SIP-TOKEN  | NCIA/CES                 |

| <b>Title</b>   | <b>Pubnum</b>                                       | <b>Profiles</b>  | <b>Responsible Party</b> |
|--|---|--|--------------------------|
| Web Services Base Faults 1.2   | OASIS wsrf-ws_base_faults-1.2-spec-os :2006         | SIP-NOTIF-CACHE  | NCIA                     |
| SAML Token Profile 1.1   | OASIS wss-v1.1-errata-os-SAMLSAMLTokenProfile:2006  | SIP-POLICY-ENFORCE, SIP-SEC                                      | C3B CaP4                 |
| Web Services Security X.509 Certificate Token Profile 1.1 OASIS Standard incorporating Approved Errata | OASIS wss-v1.1-spec-errata-os-X509TokenProfile:2006 | SIP-POLICY-ENFORCE   | NCIA                     |
| Web Services Security: SOAP Message Security 1.1   | OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006     | SIP-POLICY-ENFORCE, SIP-TOKEN                                    | NCIA/CES                 |
| WS-Trust 1.4   | OASIS wstrust-1.4:2012                              | SIP-TOKEN  | NCIA/CS                  |
| OpenGIS Styled Layer Descriptor (SLD) Profile of the Web Map Service Implementation Specification      | OGC 02-070:2002                                     | SIP-GEO-MRS  | NCIA                     |
| Open GIS Web Map Service Implementation Specification  | OGC 06-042:2006                                     | SIP-GEO-MRS  | FMN CPWG                 |
| Web Services Common Implementation Specification v2.0.0  | OGC 06-121r9:2010                                   | SIP-GEO-MRS  | NCIA                     |
| OpenGIS Web Map Tile Service Implementation Standard   | OGC 07-057r7:2010                                   | SIP-GEO-MRS  | NCIA/AWG                 |
| Web Services Addressing 1.0 - Core   | W3C REC-ws-addr-core-20060509:2006                  | SIP-MESG, SIP-NOTIF-CACHE, SIP-PUBSUB, SIP-PUBSUB-NOTIF-CONSUMER | FMN CPWG                 |
| Simple Object Access Protocol (SOAP)   | W3C NOTE-SOAP-20000508:2000                         | SIP-MESG   | NCIA                     |
| SOAP Version 1.2 Part 1: Messaging Framework   | W3C REC-soap12-part1-20030624:2003                  | SIP-MESG   | NCIA                     |
| Web Services Description Language (WSDL) Version 2.0 Part 1: Core Language                             | W3C REC-wsdl20-20070626:2007                        | FMN2, SIP-REST-MSG   | NCIA/Sstrat/Sea          |

| <b>Title</b>   | <b>Pubnum</b>                     | <b>Profiles</b>                             | <b>Responsible Party</b> |
|--|-----------------------------------|---|--------------------------|
| XML-Signature Syntax and Processing (Second Edition) | W3C REC-xmlsig-core-20080610:2008 | FMN2, SIP-POLICY-ENFORCE, SIP-REST, SIP-SEC | NCIA                     |
| XML Encryption Syntax and Processing                 | W3C REC-xmlenc-core-20021210:2002 | FMN2, SIP-POLICY-ENFORCE, SIP-REST, SIP-SEC | NCIA                     |
| XML Path Language 1.0                                | W3C REC-xpath-19991119:1999       | SIP-PUBSUB, SIP-PUBSUB-NOTIF-BROOKER        | NCIA                     |
| Basic Security Profile Version 1.1                   | WS-I BasicSecurityProfile-1.1     | SIP-POLICY-ENFORCE, SIP-SEC                 | C3B CaP4:2010            |
| WS-I Basic Profile 1.2                               | WS-I BP12:2010                    | SIP-MESG                                    | NCIA/CES                 |
| WS-I Basic Profile 2.0                               | WS-I wsbp:2010                    | SIP-MESG                                    | NCIA/CES                 |
| XEP-0004: Data Forms                                 | XMPP XEP-0004:2007                | SIP-MESG-COL-SERV                           | FMN CPWG                 |
| XEP-0030: Service Discovery                          | XMPP XEP-0030:2008                | SIP-MESG-COL-SERV                           | FMN CPWG                 |
| XEP-0033: Extended Stanza Addressing                 | XMPP XEP-0033:2004                | SIP-MESG-COL-SERV                           | NCIA                     |
| XEP-0045: Multi-User Chat                            | XMPP XEP-0045:2012                | SIP-MESG-COL-SERV                           | FMN CPWG                 |
| XEP-0048: Bookmarks                                  | XMPP XEP-0048:2007                | SIP-MESG-COL-SERV                           | NCIA                     |
| XEP-0053: XMPP Registrar Function                    | XMPP XEP-0053:2008                | SIP-MESG-COL-SERV                           | NCIA                     |
| XEP-0054: vcard-temp                                 | XMPP XEP-0054:2008                | SIP-MESG-COL-SERV                           | FMN CPWG                 |
| XEP-0055: Jabber Search                              | XMPP XEP-0055:2009                | SIP-MESG-COL-SERV                           | FMN CPWG                 |
| XEP-0060: Publish-Subscribe                          | XMPP XEP-0060:2010                | SIP-MESG-COL-SERV                           | NCIA                     |
| XEP-0068: Field Standardization for Data Forms       | XMPP XEP-0068:2012                | SIP-MESG-COL-SERV                           | NCIA                     |

| <b>Title</b>   | <b>Pubnum</b>         | <b>Profiles</b>            | <b>Responsible Party</b> |
|--|-----------------------|----------------------------|--------------------------|
| XEP-0079: Advanced Message Processing                | XMPP<br>XEP-0079:2005 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0080: User Location                              | XMPP<br>XEP-0080:2014 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0082: XMPP Date and Time Profiles                | XMPP<br>XEP-0082:2013 | SIP-MESG-COL-SERV          | FMN CPWG                 |
| XEP-0122: Data Forms Validation                      | XMPP<br>XEP-0122:2004 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0127: Common Alerting Protocol (CAP) Over XMPP   | XMPP<br>XEP-0127:2004 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0138: Stream Compression                         | XMPP<br>XEP-0138:2009 | SIP-BCS, SIP-MESG-COL-SERV | NCIA                     |
| XEP-0141: Data Forms Layout                          | XMPP<br>XEP-0141:2005 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0198: Stream Management                          | XMPP<br>XEP-0198:2011 | SIP-BCS, SIP-MESG-COL-SERV | NCIA                     |
| XEP-0199: XMPP Ping                                  | XMPP<br>XEP-0199:2009 | SIP-BCS, SIP-MESG-COL-SERV | NCIA                     |
| XEP-0202: Entity Time                                | XMPP<br>XEP-0202:2009 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0203: Delayed Delivery                           | XMPP<br>XEP-0203:2009 | SIP-MESG-COL-SERV          | FMN CPWG                 |
| XEP-0220: Server Dialback                            | XMPP<br>XEP-0220:2013 | SIP-BCS, SIP-MESG-COL-SERV | FMN CPWG                 |
| XEP-0256: Last Activity in Presence                  | XMPP<br>XEP-0256:2009 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0258: Security Labels in XMPP                    | XMPP<br>XEP-0258:2013 | SIP-MESG-COL-SERV          | NCIA                     |
| XEP-0228: Bidirectional Server-to-Server Connections | XMPP<br>XEP-0288:2010 | SIP-BCS, SIP-MESG-COL-SERV | FMN CPWG                 |

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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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