

# **NATO STANDARD**

## **ADatP-34**

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

#### **Volume 3**

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

**Edition 0 Version 2**

**6 May 2022**



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

Published by the  
NATO STANDARDIZATION OFFICE (NSO)  
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## **NATO LETTER OF PROMULGATION**

The enclosed Allied Data Publication ADatP-34, Edition O, Version 2 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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**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. STANDARDS

## 1.1. INTRODUCTION

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

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

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

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

### 1.1.1. Releasability Statement

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

## 1.2. USER APPLICATIONS

| Title   | Pubnum             | Profiles      | Responsible Party |
|---|--------------------|---------------|-------------------|
| <b>User Applications</b>  |                    |               |                   |
| <a href="#">Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types</a>    | IETF RFC 2046:1996 | PROPOSED-FMN5 | FMN CPWG          |
| <a href="#">Uniform Resource Identifiers (URI): Generic Syntax</a>                    | IETF RFC 3986:2005 | PROPOSED-FMN5 | FMN CPWG          |
| <a href="#">The application/json Media Type for JavaScript Object Notation (JSON)</a> | IETF RFC 4627:2006 | PROPOSED-FMN5 | FMN CPWG          |

| <b>Title</b>   | <b>Pubnum</b>                                   | <b>Profiles</b> | <b>Responsible Party</b> |
|--|---|-----------------|--------------------------|
| <a href="#">PATCH Method for HTTP</a>  | IETF RFC 5789:2010                              | PROPOSED-FMN5   | FMN CPWG                 |
|  |   | PROPOSED-FMN5   |                          |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a> | IETF RFC 7230:2014                              | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content</a>      | IETF RFC 7231:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests</a>       | IETF RFC 7232:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Range Requests</a>             | IETF RFC 7233:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Caching</a>                    | IETF RFC 7234:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
|  |   | PROPOSED-FMN5   |                          |
| <a href="#">The JavaScript Object Notation (JSON) Data Interchange Format</a>      | IETF RFC 8259:2017                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">OAuth 2.0 Authorization Server Metadata</a>                            | IETF RFC 8414:2017                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">WS-BrokeredNotification 1.3</a>  | OASIS wsn-ws_brokered_notification_spec-os:2006 | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">OASIS SAML Metadata Interoperability Profile</a>                       | OASIS SAML V2.0:2005                            | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">WS-BaseNotification</a>  | OASIS ws-notif:2006                             | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">WS-Topics 1.3</a>  | OASIS wsn-ws_topics-1.3-spec-os:2006            | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">Web Services Resource Properties</a>                                   | OASIS wsrf-ws_resource_properties_spec-os:2006  | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Web Services Security SAML Token Profile Version 1.1.1</a>             | OASIS WSS-SAML-Token-Profile-V1.1.1:2012        | PROPOSED-FMN5   | C3B CaP4                 |

| <b>Title</b>  | <b>Pubnum</b>                                   | <b>Profiles</b> | <b>Responsible Party</b> |
|---|---|-----------------|--------------------------|
| Web Services Security: SOAP Message Security 1.1                                  | OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006 | PROPOSED-FMN5   | NCIA/CES                 |
| Web Services Addressing 1.0 - Core  | W3C REC-ws-addr-core-20060509:2006              | PROPOSED-FMN5   | FMN CPWG                 |
| Web Service Description Language (WSDL) 1.1                                       | W3C NOTE-wsdl-20010315:2001                     | PROPOSED-FMN5   | FMN CPWG                 |
| XHTML™ 1.0 in XML Schema  | W3C NOTE-xhtml1-schema-20020902:2002            | PROPOSED-FMN5   | FMN CPWG                 |
| SOAP Version 1.2 Part 1: Messaging Framework                                      | W3C REC-soap12-part1-20030624:2003              | PROPOSED-FMN5   | NCIA                     |
| eXtensible Markup Language (XML) version 1.0 (Fifth Edition)                      | W3C REC-xml-20081126:2008                       | PROPOSED-FMN5   | FMN CPWG                 |
| XML Signature Syntax and Processing Version 1.1                                   | W3C REC-xmlsig-core1-20130411:2013              | PROPOSED-FMN5   | NCIA                     |
| XML Schema Part 1: Structures Second Edition                                      | W3C REC-xmlschema-1-20041028:2004               | PROPOSED-FMN5   | FMN CPWG                 |
| XML Schema Part 2: Datatypes Second Edition                                       | W3C REC-xmlschema-2-20041028:2004               | PROPOSED-FMN5   | FMN CPWG                 |
| Basic Security Profile Version 1.1  | WS-I BasicSecurityProfile-1.1-2009-01-24.html   | PROPOSED-FMN5   | C3B CaP4 :2010           |
| WS-I Basic Profile 2.0  | WS-I wsbp:2010                                  | PROPOSED-FMN5   | NCIA/CES                 |
| <b>Communication and Collaboration Applications</b>                               |   |                 |                          |
| NATO Vector Graphics (NVG) 2.0.2  | ACT NVG 2.0.2:2015                              | PROPOSED-FMN5   | FMN CPWG                 |
|   |   | PROPOSED-FMN5   |                          |
| XML Schema of the Geodatabase   | ESRI :2008                                      | PROPOSED-FMN5   | FMN CPWG                 |
| Extensible Messaging and Presence Protocol (XMPP): Core                           | IETF RFC 6120:2011                              | PROPOSED-FMN5   | NCIA                     |
| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence | IETF RFC 6121:2011                              | PROPOSED-FMN5   | 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                               | PROPOSED-FMN5   | NCIA                     |
| JPEG 2000 image coding system — Part 1: Core coding system          | ISO/IEC 15444-1:2019                             | PROPOSED-FMN5   | NCIA/JISR                |
|   |  | PROPOSED-FMN5   |                          |
| NATO Geospatial Information Framework                               | NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2 | PROPOSED-FMN5   | MC, MCJSB, JGS           |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | PROPOSED-FMN5   | MC, MCJSB, JGS           |
| NATO Joint Military Symbolology                                     | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7   | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |
| Vector Smart Map (VMAP) Level 1                                     | US DoD MIL-PRF-89033:1995                        | PROPOSED-FMN5   | FMN CPWG                 |
| Compressed ARC Digitized Raster Graphics (ADRG)                     | NGA MIL-PRF-89038:1994                           | PROPOSED-FMN5   | FMN CPWG                 |
| Vector Smart Map (VMAP) Level 0                                     | US DoD MIL-PRF-89039:1995                        | PROPOSED-FMN5   | FMN CPWG                 |
| Raster Product Format   | NGA MIL-STD-2411:2010                            | PROPOSED-FMN5   | FMN CPWG                 |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2)                    | OGC 05-047r3:2006                                | PROPOSED-FMN5   | FMN CPWG                 |
| Data Forms  | XMPP XEP-0004:2020                               | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0012: Last Activity   | XMPP XEP-0012:2008                               | PROPOSED-FMN5   | FMN CPWG                 |
| Multi-User Chat   | XMPP XEP-0045:2019                               | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0054: vcard-temp  | XMPP XEP-0054:2008                               | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0068: Field Standardization for Data Forms                      | XMPP XEP-0068:2012                               | PROPOSED-FMN5   | NCIA                     |
| JID Escaping  | XMPP :2007                                       | PROPOSED-FMN5   | FMN CPWG                 |



| Title  | Pubnum                          | Profiles      | Responsible Party |
|--|---------------------------------|---------------|-------------------|
| Entity Capabilities                                    | XMPP<br>XEP-0115:2020           | PROPOSED-FMN5 | FMN CPWG          |
| XEP-0160: Best Practices for Handling Offline Messages | XMPP XEP-0160<br>(2016/10):2016 | PROPOSED-FMN5 | FMN CPWG          |
| XEP-0199: XMPP Ping                                    | XMPP XEP-0199<br>(2019/03):2019 | PROPOSED-FMN5 | NCIA              |
| XEP-0202: Entity Time                                  | XMPP<br>XEP-0202:2009           | PROPOSED-FMN5 | NCIA              |
| XEP-0203: Delayed Delivery                             | XMPP<br>XEP-0203:2009           | PROPOSED-FMN5 | FMN CPWG          |
| Server Dialback  | XMPP<br>XEP-0220:2015           | PROPOSED-FMN5 | FMN CPWG          |
| XEP-0346: Form Discovery and Publishing                | XMPP<br>XEP-0346:2017           | PROPOSED-FMN5 | FMN CPWG          |

### 1.3. TECHNICAL SERVICES

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

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

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

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

| Title                                       | Pubnum   | Profiles      | Responsible Party  |
|---|--|---------------|--------------------|
| <b>Recognized Maritime Picture Services</b> |  |               |                    |
| Confidentiality Metadata Label Syntax       | NATO ADatP-4774<br>Ed A Ver 1:2017 /<br>STANAG 4774 Ed 1 | PROPOSED-FMN5 | C3B CaP1<br>DM CaT |

| <b>Title</b>   | <b>Pubnum</b>   | <b>Profiles</b> | <b>Responsible Party</b> |
|--|---|-----------------|--------------------------|
| Metadata Binding Mechanism   | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1            | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| NATO Core Metadata Specification   | NATO ADatP-5636 (FD) Ed A Ver 1 / STANAG (Study) 5636 Ed A    | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| NATO Core Data Framework (NCDF)  | NATO ADatP-5653 Ed A Ver 1 (Study) / STANAG (Study) 5653 Ed 1 | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| Over-The-Horizon Targeting Gold baseline 2007                            | US DoD OTH-T Gold Baseline 2007:2007                          | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| <b>Situational Awareness Services</b>                                    |   |                 |                          |
| NATO Vector Graphics (NVG) 2.0.2   | ACT NVG 2.0.2:2015  | PROPOSED-FMN5   | FMN CPWG                 |
| Friendly Force Tracking Systems (FFTS) Interoperability                  | NATO ADatP-36 Ed A Ver 2:2021                                 | PROPOSED-FMN5   | C3B CaP2 FFT CaT         |
| Services to forward Friendly Force Information to Weapon Delivery Assets | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1              | PROPOSED-FMN5   | C3B CaP2                 |
| NATO Joint Military Symbolology  | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7                | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |
| NATO Message Catalogue   | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6                | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |
| <b>Recognized Picture Services</b>                                       |   |                 |                          |
| NATO Vector Graphics (NVG) 2.0.2   | ACT NVG 2.0.2:2015  | PROPOSED-FMN5   | FMN CPWG                 |
| NATO Joint Military Symbolology  | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7                | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |
| <b>Symbolology Services</b>  |   |                 |                          |
| NATO Vector Graphics Specification                                       | NATO ADatP-4733 Ed A Ver 1 / STANAG (Study) 4733 Ed 1         | BSP             | C3B CaP1                 |

| <b>Title</b>   | <b>Pubnum</b>   | <b>Profiles</b> | <b>Responsible Party</b> |
|--|---|-----------------|--------------------------|
| NATO Transformational Baseline 3.0:2009 (ACT)                            | NATO TIDE/TTB:2009  | BSP             | NCIA/CES                 |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2)                         | OGC 05-047r3:2006   | BSP             | FMN CPWG                 |
| <b>Overlay Services</b>  |   |                 |                          |
| NATO Vector Graphics (NVG) 2.0.2   | ACT NVG 2.0.2:2015  | PROPOSED-FMN5   | FMN CPWG                 |
| Confidentiality Metadata Label Syntax                                    | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1                | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| Metadata Binding Mechanism   | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1                | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| NATO Core Metadata Specification   | NATO ADatP-5636 (FD) Ed A Ver 1 / STANAG (Study) 5636 Ed A        | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| NATO Core Data Framework (NCDF)  | NATO ADatP-5653 Ed A Ver 1 (Study) / STANAG (Study) 5653 Ed 1     | PROPOSED-FMN5   | C3B CaP1 DM CaT          |
| NATO Joint Military Symbolology  | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7                    | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |
| <b>Track Management Services</b>   |   |                 |                          |
| Friendly Force Tracking Systems (FFTS) Interoperability                  | NATO ADatP-36 Ed A Ver 2:2021                                     | PROPOSED-FMN5   | C3B CaP2 FFT CaT         |
| Services to forward Friendly Force Information to Weapon Delivery Assets | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1                  | PROPOSED-FMN5   | C3B CaP2                 |
| Identification Data Combining Process                                    | NATO Study (expected) AIDPP-01 Ed. A version 1 / STANAG 4162 Ed 3 | BSP             | C3B CaP2                 |
| NATO Message Catalogue   | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6                    | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |

| Title  | Pubnum  | Profiles      | Responsible Party       |
|--|---|---------------|-------------------------|
| Tactical Data Exchange - Link 16   | NATO Study (expected)<br>ATDLP-5.16 Ed C<br>Ver 1:2019 /<br>STANAG 5516 FT Ed 9 | BSP           | C3B CaP1<br>TDL CaT     |
| <b>Track Distribution Services</b>                                       |   |               |                         |
| Friendly Force Tracking Systems (FFTS) Interoperability                  | NATO ADatP-36 Ed A<br>Ver 2:2021  | PROPOSED-FMN5 | C3B CaP2<br>FFT CaT     |
| Services to forward Friendly Force Information to Weapon Delivery Assets | NATO ADatP-37 Ed A<br>Ver 1:2018 /<br>STANAG 5528 Ed 1                          | PROPOSED-FMN5 | C3B CaP2                |
| NATO Message Catalogue   | NATO APP-11 Ed D<br>Ver 1:2015 /<br>STANAG 7149 Ed 6                            | PROPOSED-FMN5 | MC,<br>MCJSB,<br>IERHWG |
| <b>Modeling and Simulation Services</b>                                  |   |               |                         |

### 1.3.2. Core Services

| Title   | Pubnum                                | Profiles      | Responsible Party                   |
|---|---------------------------------------|---------------|-------------------------------------|
| <b>Business Support CIS Security Services</b>             |                                       |               |                                     |
| Common Biometric Exchange Formats Framework (CBEFF)       | ANSI incits-398:2008                  | BSP           | NCIA/JISR                           |
| Electronic Biometric Transmission Specification (EBTS)    | FBI IAFIS-<br>DOC-01078-8.1:2008      | BSP           | CNAD,<br>AC/224<br>NAFAG,<br>JCGISR |
| <b>Business Support SMC Services</b>                      |                                       |               |                                     |
| Trouble Ticket Management API REST Specification R19.0.1  | TM-FORUM<br>TMF621<br>(2019/11):2019  | PROPOSED-FMN5 | FMN CPWG                            |
| Trouble Ticket Management API Conformance Profile R19.0.1 | TM-FORUM<br>TMF621B<br>(2019/11):2019 | PROPOSED-FMN5 | FMN CPWG                            |
| Service Inventory API User Guide                          | TM-FORUM<br>TMF638<br>(2020/07):2020  | PROPOSED-FMN5 | FMN CPWG                            |

| <b>Title</b>   | <b>Pubnum</b>                        | <b>Profiles</b> | <b>Responsible Party</b> |
|--|--------------------------------------|-----------------|--------------------------|
| Resource Inventory API User Guide  | TM-FORUM<br>TMF639<br>(2020/07):2020 | PROPOSED-FMN5   | FMN CPWG                 |
| Service Ordering API User Guide  | TM-FORUM<br>TMF641<br>(2021/03):2021 | PROPOSED-FMN5   | FMN CPWG                 |
| Alarm Management API User Guide  | TM-FORUM<br>TMF642<br>(2020/05):2020 | PROPOSED-FMN5   | FMN CPWG                 |
| Change Management API REST Specification R18.0.1   | TM-FORUM<br>TMF655<br>(2018/09):2018 | PROPOSED-FMN5   | FMN CPWG                 |
| Service Quality Management API User Guide  | TM-FORUM<br>TMF657<br>(2020/05):2020 | PROPOSED-FMN5   | FMN CPWG                 |
| Process Flow Management API REST Specification R19.0.1                                   | TM-FORUM<br>TMF701<br>(2019/11):2019 | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Communication and Collaboration Services</b>  |                                      |                 |                          |
| HyperText Markup Language (HTML), Version 5.0, Reference Specification                   | W3C WD-html5-20121025:2012           | BSP             | NCIA/CES                 |
| <b>Informal Messaging Services</b>   |                                      |                 |                          |
| SMTP Service Extension for Message Size Declaration                                      | IETF RFC 1870:1995                   | PROPOSED-FMN5   | FMN CPWG                 |
| The text/enriched MIME Content-type  | IETF RFC 1896:1996                   | PROPOSED-FMN5   | FMN CPWG                 |
| SMTP Service Extension for Returning Enhanced Error Codes                                | IETF RFC 2034:1996                   | PROPOSED-FMN5   | FMN CPWG                 |
| Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies | IETF RFC 2045:1996                   | PROPOSED-FMN5   | FMN CPWG                 |
| Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types                       | IETF RFC 2046:1996                   | PROPOSED-FMN5   | FMN CPWG                 |
| Multipurpose Internet Mail Extensions (MIME) Part Three:                                 | IETF RFC 2047:1996                   | PROPOSED-FMN5   | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b> | <b>Responsible Party</b> |
|---|--------------------|-----------------|--------------------------|
| Message Header Extensions for Non-ASCII Text  |                    |                 |                          |
| Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Example        | IETF RFC 2049:1996 | PROPOSED-FMN5   | FMN CPWG                 |
| SMTP Service Extension for Command Pipelining   | IETF RFC 2920:2000 | PROPOSED-FMN5   | FMN CPWG                 |
| MTP Service Extension for Secure SMTP over Transport Layer Security (TLS)                       | IETF RFC 3207:2002 | PROPOSED-FMN5   | FMN CPWG                 |
| Simple Mail Transfer Protocol (SMTP) Service Extension for Delivery Status Notifications (DSNs) | IETF RFC 3461:2003 | PROPOSED-FMN5   | FMN CPWG                 |
| UTF-8, a transformation format of ISO/IEC 10646   | IETF RFC 3629:2003 | PROPOSED-FMN5   | FMN CPWG                 |
| The Text/Plain Format and DelSp Parameters  | IETF RFC 3676:2004 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security Protocol Compression Methods   | IETF RFC 3749:2004 | PROPOSED-FMN5   | FMN CPWG                 |
| SMTP Service Extension for Authentication   | IETF RFC 4954:2007 | PROPOSED-FMN5   | FMN CPWG                 |
| URI Fragment Identifiers for the text/plain Media Type  | IETF RFC 5147:2008 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS)The Transport Layer Security (TLS) Protocol Version 1.2           | IETF RFC 5246:2008 | PROPOSED-FMN5   | C3B CaP4                 |
| Simple Mail Transfer Protocol   | IETF RFC 5321:2008 | PROPOSED-FMN5   | FMN CPWG                 |
| Internet Message Format   | IETF RFC 5322:2008 | PROPOSED-FMN5   | NCIA                     |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar)                       | IETF RFC 5545:2009 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Renegotiation Indication Extension                               | IETF RFC 5746:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Extensions: Extension Definitions                                | IETF RFC 6066:2011 | PROPOSED-FMN5   | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>        | <b>Profiles</b> | <b>Responsible Party</b> |
|---|----------------------|-----------------|--------------------------|
| SMTP Service Extension for 8-bit MIME Transport   | IETF RFC 6152:2011   | PROPOSED-FMN5   | FMN CPWG                 |
| Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) | IETF RFC 7525:2015   | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension                              | IETF RFC 7627:2015   | PROPOSED-FMN5   | FMN CPWG                 |
| Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)                | IETF RFC 7919:2016   | PROPOSED-FMN5   | FMN CPWG                 |
| Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS) Versions 1.2 and Earlier   | IETF RFC 8422:2018   | PROPOSED-FMN5   | FMN CPWG                 |
| The Transport Layer Security (TLS) Protocol Version 1.3   | IETF RFC 8446:2018   | PROPOSED-FMN5   | FMN CPWG                 |
| Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)                | ISO 19005-1:2005     | PROPOSED-FMN5   | FMN CPWG                 |
| Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2)            | ISO 19005-2:2011     | PROPOSED-FMN5   | FMN CPWG                 |
| Document management — Portable document format — Part 1: PDF 1.7  | ISO 32000-1:2008     | PROPOSED-FMN5   | FMN CPWG                 |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines                   | ISO/IEC 10918-1:1994 | PROPOSED-FMN5   | FMN CPWG                 |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines                   | ISO/IEC 10918-1:1994 | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 1: OpenDocument Schema               | ISO/IEC 26300-1:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2  | ISO/IEC 26300-2:2015 | PROPOSED-FMN5   | FMN CPWG                 |



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| -- Part 2: Recalculated Formula (OpenFormula) Format                                    |                                      |                 |                          |
| Open Document Format for Office Applications (OpenDocument) v1.2<br>-- Part 3: Packages | ISO/IEC 26300-3:2015                 | PROPOSED-FMN5   | FMN CPWG                 |
| Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference      | ISO/IEC 29500-1:2016                 | PROPOSED-FMN5   | C3B CaP1<br>CS CaT       |
| XHTML™ 1.0 in XML Schema  | W3C NOTE-xhtml1-schema-20020902:2002 | PROPOSED-FMN5   | FMN CPWG                 |
| Hypertext Markup Language revision 5 (HTML5)  | W3C REC-html5-20141028:2014          | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Fax Services</b>   |                                      |                 |                          |
| Procedures for real-time Group 3 facsimile communication over IP networks               | ITU-T T.38:2010                      | BSP             | NCIA/NSII                |
| <b>Calendaring and Scheduling Services</b>  |                                      |                 |                          |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar)               | IETF RFC 5545:2009                   | PROPOSED-FMN5   | FMN CPWG                 |
| iCalendar Transport-Independent Interoperability Protocol (iTIP)                        | IETF RFC 5546:2009                   | PROPOSED-FMN5   | FMN CPWG                 |
| iCalendar Message-Based Interoperability Protocol (iMIP)                                | IETF RFC 6047:2010                   | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Video-based Communication Services</b>   |                                      |                 |                          |
| Session Initiation Protocol (SIP)   | IETF RFC 3261:2002                   | PROPOSED-FMN5   | FMN CPWG                 |
| Reliability of Provisional Responses in the Session Initiation Protocol (SIP)           | IETF RFC 3262:2002                   | PROPOSED-FMN5   | FMN CPWG                 |
| An Offer/Answer Model with the Session Description Protocol (SDP)                       | IETF RFC 3264:2002                   | PROPOSED-FMN5   | FMN CPWG                 |
| The Session Initiation Protocol (SIP) UPDATE Method                                     | IETF RFC 3311:2002                   | PROPOSED-FMN5   | FMN CPWG                 |
| RTP: A Transport Protocol for Real-Time Applications                                    | IETF RFC 3550:2003                   | PROPOSED-FMN5   | FMN CPWG                 |



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| Session Timers in the Session Initiation Protocol (SIP)   | IETF RFC 4028:2005 | PROPOSED-FMN5   | FMN CPWG                 |
| A Border Gateway Protocol 4 (BGP-4)   | IETF RFC 4271:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| A Framework for Conferencing with the Session Initiation Protocol (SIP)                         | IETF RFC 4353:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events             | IETF RFC 4411:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Communications Resource Priority for the Session Initiation Protocol (SIP)                      | IETF RFC 4412:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| SDP: Session Description Protocol   | IETF RFC 4566:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents                   | IETF RFC 4579:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals                             | IETF RFC 4733:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Multiprotocol Extensions for BGP-4  | IETF RFC 4760:2007 | PROPOSED-FMN5   | FMN CPWG                 |
| The Generalized TTL Security Mechanism (GTSM)   | IETF RFC 5082:2007 | PROPOSED-FMN5   | FMN CPWG                 |
| Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP) | IETF RFC 5366:2008 | PROPOSED-FMN5   | FMN CPWG                 |
| Capabilities Advertisement with BGP-4   | IETF RFC 5492:2009 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD)  | IETF RFC 5880:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)                         | IETF RFC 5881:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD) for Multihop Paths                                     | IETF RFC 5883:2010 | PROPOSED-FMN5   | FMN CPWG                 |

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| Autonomous-System-Wide Unique BGP Identifier for BGP-4  | IETF RFC 6286:2011           | PROPOSED-FMN5   | FMN CPWG                 |
| SIP-Specific Event Notification   | IETF RFC 6665:2012           | PROPOSED-FMN5   | FMN CPWG                 |
| BGP Support for Four-Octet Autonomous System (AS) Number Space                                    | IETF RFC 6793:2012           | PROPOSED-FMN5   | FMN CPWG                 |
| Revised Error Handling for BGP UPDATE Messages  | IETF RFC 7606:2015           | PROPOSED-FMN5   | FMN CPWG                 |
| RTP Topologies  | IETF RFC 7667:2015           | PROPOSED-FMN5   | FMN CPWG                 |
| Default External BGP (EBGP) Route Propagation Behavior without Policies                           | IETF RFC 8212:2017           | PROPOSED-FMN5   | FMN CPWG                 |
| SCIP Signalling Plan rev.3.10   | CIS3 C&IP SCIP-210 3.10:2017 | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| SCIP over RTP rev.1.0   | CIS3 C&IP SCIP-214.2:2010    | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Securing SIP Signaling - Use of TLS with SCIP   | CIS3 C&IP SCIP-214.3:2014    | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0            | CIS3 C&IP SCIP-233.350:2012  | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Secure MELP(e) Voice rev.1.1  | CIS3 C&IP SCIP-233.501:2012  | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Secure G.729D Voice Specification Rev. 1.1.   | CIS3 C&IP SCIP-233.502:2011  | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Notation for national and international telephone numbers, e-mail addresses and web addresses     | ITU-T E.123:2001             | PROPOSED-FMN5   | FMN CPWG                 |
| The international public telecommunication numbering plan   | ITU-T E.164:2010             | PROPOSED-FMN5   | FMN CPWG                 |
| Pulse code modulation (PCM) of voice frequencies  | ITU-T G.711:1988             | PROPOSED-FMN5   | FMN CPWG                 |
| Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss | ITU-T G.722.1:2005           | PROPOSED-FMN5   | 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 | PROPOSED-FMN5   | FMN CPWG                 |
| Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP) | ITU-T G.729:2012                                | PROPOSED-FMN5   | FMN CPWG                 |
| Advanced video coding for generic audiovisual services   | ITU-T H.264:2017                                | PROPOSED-FMN5   | FMN CPWG                 |
| International Network Numbering for Communications Systems in use in NATO                                  | NATO STANAG 4705 Ed 1:2015                      | PROPOSED-FMN5   | C3B CaP1<br>N&S CaT      |
| <b>Audio-based Communication Services</b>  |   |                 |                          |
| Session Initiation Protocol (SIP)  | IETF RFC 3261:2002                              | PROPOSED-FMN5   | FMN CPWG                 |
| Reliability of Provisional Responses in the Session Initiation Protocol (SIP)                              | IETF RFC 3262:2002                              | PROPOSED-FMN5   | FMN CPWG                 |
| An Offer/Answer Model with the Session Description Protocol (SDP)  | IETF RFC 3264:2002                              | PROPOSED-FMN5   | FMN CPWG                 |
| The Session Initiation Protocol (SIP) UPDATE Method  | IETF RFC 3311:2002                              | PROPOSED-FMN5   | FMN CPWG                 |
| RTP: A Transport Protocol for Real-Time Applications   | IETF RFC 3550:2003                              | PROPOSED-FMN5   | FMN CPWG                 |
| Session Timers in the Session Initiation Protocol (SIP)  | IETF RFC 4028:2005                              | PROPOSED-FMN5   | FMN CPWG                 |
| A Border Gateway Protocol 4 (BGP-4)  | IETF RFC 4271:2006                              | PROPOSED-FMN5   | FMN CPWG                 |
| A Framework for Conferencing with the Session Initiation Protocol (SIP)                                    | IETF RFC 4353:2006                              | PROPOSED-FMN5   | FMN CPWG                 |
| Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events                        | IETF RFC 4411:2006                              | PROPOSED-FMN5   | FMN CPWG                 |
| Communications Resource Priority for the Session Initiation Protocol (SIP)                                 | IETF RFC 4412:2006                              | PROPOSED-FMN5   | FMN CPWG                 |

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| SDP: Session Description Protocol   | IETF RFC 4566:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents                   | IETF RFC 4579:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals                             | IETF RFC 4733:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Multiprotocol Extensions for BGP-4  | IETF RFC 4760:2007 | PROPOSED-FMN5   | FMN CPWG                 |
| The Generalized TTL Security Mechanism (GTSM)   | IETF RFC 5082:2007 | PROPOSED-FMN5   | FMN CPWG                 |
| Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP) | IETF RFC 5366:2008 | PROPOSED-FMN5   | FMN CPWG                 |
| Capabilities Advertisement with BGP-4   | IETF RFC 5492:2009 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD)  | IETF RFC 5880:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)                         | IETF RFC 5881:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD) for Multihop Paths                                     | IETF RFC 5883:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Autonomous-System-Wide Unique BGP Identifier for BGP-4  | IETF RFC 6286:2011 | PROPOSED-FMN5   | FMN CPWG                 |
| SIP-Specific Event Notification   | IETF RFC 6665:2012 | PROPOSED-FMN5   | FMN CPWG                 |
| BGP Support for Four-Octet Autonomous System (AS) Number Space                                  | IETF RFC 6793:2012 | PROPOSED-FMN5   | FMN CPWG                 |
| Revised Error Handling for BGP UPDATE Messages  | IETF RFC 7606:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| RTP Topologies  | IETF RFC 7667:2015 | PROPOSED-FMN5   | FMN CPWG                 |

| <b>Title</b>   | <b>Pubnum</b>                                   | <b>Profiles</b> | <b>Responsible Party</b> |
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| Default External BGP (EBGP) Route Propagation Behavior without Policies                                    | IETF RFC 8212:2017                              | PROPOSED-FMN5   | FMN CPWG                 |
| SCIP Signalling Plan rev.3.10  | CIS3 C&IP SCIP-210 3.10:2017                    | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| SCIP over RTP rev.1.0  | CIS3 C&IP SCIP-214.2:2010                       | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Securing SIP Signaling - Use of TLS with SCIP  | CIS3 C&IP SCIP-214.3:2014                       | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0                     | CIS3 C&IP SCIP-233.350:2012                     | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Secure MELP(e) Voice rev.1.1   | CIS3 C&IP SCIP-233.501:2012                     | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Secure G.729D Voice Specification Rev. 1.1.  | CIS3 C&IP SCIP-233.502:2011                     | PROPOSED-FMN5   | C3B CaP1 N&S CaT         |
| Notation for national and international telephone numbers, e-mail addresses and web addresses              | ITU-T E.123:2001                                | PROPOSED-FMN5   | FMN CPWG                 |
| The international public telecommunication numbering plan  | ITU-T E.164:2010                                | PROPOSED-FMN5   | FMN CPWG                 |
| Pulse code modulation (PCM) of voice frequencies   | ITU-T G.711:1988                                | PROPOSED-FMN5   | FMN CPWG                 |
| Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss          | ITU-T G.722.1:2005                              | PROPOSED-FMN5   | FMN CPWG                 |
| Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss          | ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008 | PROPOSED-FMN5   | FMN CPWG                 |
| Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP) | ITU-T G.729:2012                                | PROPOSED-FMN5   | FMN CPWG                 |
| Advanced video coding for generic audiovisual services   | ITU-T H.264:2017                                | PROPOSED-FMN5   | FMN CPWG                 |
| IP access to half-duplex radio networks  | NATO AComP-5634 (FD) Ed A Ver                   | PROPOSED-FMN5   | C3B CaP1 LOS Comms CaT   |

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|   | 1:2020 / STANAG (RD) 5634 Ed 1 |               |                     |
| <a href="#">International Network Numbering for Communications Systems in use in NATO</a>                             | NATO STANAG 4705 Ed 1:2015     | PROPOSED-FMN5 | C3B CaP1<br>N&S CaT |
| <b>Text-based Communication Services</b>  |                                |               |                     |
| <a href="#">NATO Vector Graphics (NVG) 2.0.2</a>  | ACT NVG 2.0.2:2015             | PROPOSED-FMN5 | FMN CPWG            |
|   |                                | PROPOSED-FMN5 |                     |
| <a href="#">XML Schema of the Geodatabase</a>   | ESRI :2008                     | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">The text/enriched MIME Content-type</a>   | IETF RFC 1896:1996             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies</a>              | IETF RFC 2045:1996             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types</a>                                    | IETF RFC 2046:1996             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">Multipurpose Internet Mail Extensions (MIME) Part Three: Message Header Extensions for Non-ASCII Text</a> | IETF RFC 2047:1996             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Example</a>              | IETF RFC 2049:1996             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">The Text/Plain Format and DelSp Parameters</a>  | IETF RFC 3676:2004             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">Transport Layer Security Protocol Compression Methods</a>   | IETF RFC 3749:2004             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">URI Fragment Identifiers for the text/plain Media Type</a>  | IETF RFC 5147:2008             | PROPOSED-FMN5 | FMN CPWG            |
| <a href="#">Transport Layer Security (TLS)The Transport Layer Security (TLS) Protocol Version 1.2</a>                 | IETF RFC 5246:2008             | PROPOSED-FMN5 | C3B CaP4            |



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| <a href="#">Internet Calendaring and Scheduling Core Object Specification (iCalendar)</a>                                     | IETF RFC 5545:2009 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Renegotiation Indication Extension</a>   | IETF RFC 5746:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Extensions: Extension Definitions</a>  | IETF RFC 6066:2011 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Extensible Messaging and Presence Protocol (XMPP): Core</a>   | IETF RFC 6120:2011 | PROPOSED-FMN5   | NCIA                     |
| <a href="#">Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence</a>                             | IETF RFC 6121:2011 | PROPOSED-FMN5   | NCIA                     |
| <a href="#">Extensible Messaging and Presence Protocol (XMPP): Address Format</a>   | IETF RFC 6122:2011 | PROPOSED-FMN5   | NCIA                     |
| <a href="#">SMTP Service Extension for 8-bit MIME Transport</a>   | IETF RFC 6152:2011 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)</a> | IETF RFC 7525:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension</a>                              | IETF RFC 7627:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)</a>                | IETF RFC 7919:2016 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS) Versions 1.2 and Earlier</a>   | IETF RFC 8422:2018 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">The Transport Layer Security (TLS) Protocol Version 1.3</a>   | IETF RFC 8446:2018 | PROPOSED-FMN5   | 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   | PROPOSED-FMN5   | 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   | PROPOSED-FMN5   | FMN CPWG                 |

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| Document management — Portable document format — Part 1: PDF 1.7  | ISO 32000-1:2008   | PROPOSED-FMN5   | FMN CPWG                 |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines                           | ISO/IEC 10918-1:1994                                       | PROPOSED-FMN5   | FMN CPWG                 |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines                           | ISO/IEC 10918-1:1994                                       | PROPOSED-FMN5   | FMN CPWG                 |
| JPEG 2000 image coding system — Part 1: Core coding system  | ISO/IEC 15444-1:2019                                       | PROPOSED-FMN5   | NCIA/JISR                |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 1: OpenDocument Schema                       | ISO/IEC 26300-1:2015                                       | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 2: Recalculated Formula (OpenFormula) Format | ISO/IEC 26300-2:2015                                       | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 3: Packages                                  | ISO/IEC 26300-3:2015                                       | PROPOSED-FMN5   | FMN CPWG                 |
| Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference                                    | ISO/IEC 29500-1:2016                                       | PROPOSED-FMN5   | C3B CaP1<br>CS CaT       |
|   |  | PROPOSED-FMN5   |                          |
| Confidentiality Metadata Label Syntax   | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1         | PROPOSED-FMN5   | C3B CaP1<br>DM CaT       |
| Metadata Binding Mechanism  | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1         | PROPOSED-FMN5   | C3B CaP1<br>DM CaT       |
| NATO Core Metadata Specification  | NATO ADatP-5636 (FD) Ed A Ver 1 / STANAG (Study) 5636 Ed A | PROPOSED-FMN5   | C3B CaP1<br>DM CaT       |
| NATO Core Data Framework (NCDF)   | NATO ADatP-5653 Ed A Ver 1                                 | PROPOSED-FMN5   | C3B CaP1<br>DM CaT       |



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|   | (Study) / STANAG<br>(Study) 5653 Ed 1            |                 |                          |
| NATO Geospatial Information Framework                               | NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2 | PROPOSED-FMN5   | MC, MCJSB, JGS           |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | PROPOSED-FMN5   | MC, MCJSB, JGS           |
| NATO Joint Military Symbolology                                     | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7   | PROPOSED-FMN5   | MC, MCJSB, IERHWG        |
| Vector Smart Map (VMAP) Level 1                                     | US DoD MIL-PRF-89033:1995                        | PROPOSED-FMN5   | FMN CPWG                 |
| Compressed ARC Digitized Raster Graphics (ADRG)                     | NGA MIL-PRF-89038:1994                           | PROPOSED-FMN5   | FMN CPWG                 |
| Vector Smart Map (VMAP) Level 0                                     | US DoD MIL-PRF-89039:1995                        | PROPOSED-FMN5   | FMN CPWG                 |
| Raster Product Format   | NGA MIL-STD-2411:2010                            | PROPOSED-FMN5   | FMN CPWG                 |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2)                    | OGC 05-047r3:2006                                | PROPOSED-FMN5   | FMN CPWG                 |
| XHTML™ 1.0 in XML Schema  | W3C NOTE-xhtml1-schema-20020902:2002             | PROPOSED-FMN5   | FMN CPWG                 |
| Character Model for the World Wide Web 1.0: Fundamentals            | W3C REC-charmod-20050215:2005                    | PROPOSED-FMN5   | FMN CPWG                 |
| Hypertext Markup Language revision 5 (HTML5)                        | W3C REC-html5-20141028:2014                      | PROPOSED-FMN5   | FMN CPWG                 |
| Internationalization Tag Set (ITS) Version 1.0                      | W3C REC-its-20070403:2007                        | PROPOSED-FMN5   | FMN CPWG                 |
| Internationalization Tag Set (ITS) Version 2.0                      | W3C REC-its20-20131029:2013                      | PROPOSED-FMN5   | FMN CPWG                 |
| Ruby Annotation   | W3C REC-ruby-20010531:2001                       | PROPOSED-FMN5   | FMN CPWG                 |
| Data Forms  | XMPP XEP-0004:2020                               | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0012: Last Activity   | XMPP XEP-0012:2008                               | PROPOSED-FMN5   | FMN CPWG                 |

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| Service Discovery                                      | XMPP<br>XEP-0030:2017           | PROPOSED-FMN5   | FMN CPWG                 |
| Multi-User Chat  | XMPP<br>XEP-0045:2019           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0054: vcard-temp                                   | XMPP<br>XEP-0054:2008           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0055: Jabber Search                                | XMPP<br>XEP-0055:2009           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0059: Result Set Management                        | XMPP<br>XEP-0059:2006           | PROPOSED-FMN5   | NCIA                     |
| Publish-Subscribe                                      | XMPP<br>XEP-0060:2020           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0068: Field Standardization for Data Forms         | XMPP<br>XEP-0068:2012           | PROPOSED-FMN5   | NCIA                     |
| XEP-0082: XMPP Date and Time Profiles                  | XMPP<br>XEP-0082:2013           | PROPOSED-FMN5   | FMN CPWG                 |
| JID Escaping   | XMPP :2007                      | PROPOSED-FMN5   | FMN CPWG                 |
| Entity Capabilities                                    | XMPP<br>XEP-0115:2020           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0160: Best Practices for Handling Offline Messages | XMPP XEP-0160<br>(2016/10):2016 | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0199: XMPP Ping                                    | XMPP XEP-0199<br>(2019/03):2019 | PROPOSED-FMN5   | NCIA                     |
| XEP-0202: Entity Time                                  | XMPP<br>XEP-0202:2009           | PROPOSED-FMN5   | NCIA                     |
| XEP-0203: Delayed Delivery                             | XMPP<br>XEP-0203:2009           | PROPOSED-FMN5   | FMN CPWG                 |
| Server Dialback  | XMPP<br>XEP-0220:2015           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0313: Message Archive Management                   | XMPP XEP-0313<br>(2020/08):2020 | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0346: Form Discovery and Publishing                | XMPP<br>XEP-0346:2017           | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Geospatial Services</b>                             |                                 |                 |                          |

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|   |  | PROPOSED-FMN5 |                   |
| XML Schema of the Geodatabase                                       | ESRI :2008                                       | PROPOSED-FMN5 | FMN CPWG          |
| JPEG 2000 image coding system — Part 1: Core coding system          | ISO/IEC 15444-1:2019                             | PROPOSED-FMN5 | NCIA/JISR         |
|   |  | PROPOSED-FMN5 |                   |
| NATO Geospatial Information Framework                               | NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2 | PROPOSED-FMN5 | MC, MCJSB, JGS    |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | PROPOSED-FMN5 | MC, MCJSB, JGS    |
| NATO Geospatial Web Services  | NATO AGeoP-26 Ed B Ver 1                         | BSP           | MC, MCJSB, JGS    |
| Vector Smart Map (VMAP) Level 1                                     | US DoD MIL-PRF-89033:1995                        | PROPOSED-FMN5 | FMN CPWG          |
| Compressed ARC Digitized Raster Graphics (ADRG)                     | NGA MIL-PRF-89038:1994                           | PROPOSED-FMN5 | FMN CPWG          |
| Vector Smart Map (VMAP) Level 0                                     | US DoD MIL-PRF-89039:1995                        | PROPOSED-FMN5 | FMN CPWG          |
| Raster Product Format   | NGA MIL-STD-2411:2010                            | PROPOSED-FMN5 | FMN CPWG          |
| OpenGIS Web Processing Service                                      | OGC 05-007r7:2007                                | BSP           | NCIA/AWG          |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2)                    | OGC 05-047r3:2006                                | PROPOSED-FMN5 | FMN CPWG          |
| <b>Geospatial Web Map Services</b>                                  |  |               |                   |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | PROPOSED-FMN5 | MC, MCJSB, JGS    |
| OpenGIS Web Map Service (WMS) Implementation Specification          | OGC 06-042:2006                                  | PROPOSED-FMN5 | FMN CPWG          |
| <b>Geospatial Web Feature Services</b>                              |  |               |                   |
| Defence Profile of OGC Web Feature Service 2.0                      | DIGWG DGIWG-122:2019                             | PROPOSED-FMN5 | FMN CPWG          |

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| <a href="#">OGC Web Feature Service 2.0 Interface Standard – With Corrigendum</a>                              | OGC 09-025r2:2014  | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Geospatial Web Coverage Services</b>  |  |                 |                          |
| <a href="#">Web Coverage Service Implementation Standard v1.1.2</a>  | OGC 07-067r5:2008  | BSP             | NCIA/AWG                 |
| <b>Geospatial Web Map Tile Services</b>  |  |                 |                          |
| <a href="#">Additional Military Layers (AML) - Digital Geospatial Data Products</a>                            | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3                       | PROPOSED-FMN5   | MC, MCJSB, JGS           |
| <a href="#">OpenGIS Web Map Tile Service Implementation Standard</a>   | OGC 07-057r7:2010  | PROPOSED-FMN5   | NCIA/AWG                 |
| <b>Geospatial Coordinate Services</b>  |  |                 |                          |
| <a href="#">OpenGIS Coordinate Transformation Services</a>   | OGC 01-009:2001  | BSP             | NCIA/AWG                 |
| <b>Information Management Services</b>   |  |                 |                          |
| <a href="#">Application Vulnerability Description Language (AVDL) version 1.0</a>                              | OASIS AVDL Specification - 01:2004                                     | BSP             | NCIA/CS                  |
| <b>Formal Messaging Services</b>   |  |                 |                          |
| <a href="#">Registration of Military Message Handling System (MMHS) Header Fields for Use in Internet Mail</a> | IETF RFC 6477:2012   | BSP             | NCIA/CES                 |
| <a href="#">Tactical Data Exchange - Link 11/11B</a>   | NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG FT 5511 Ed 10                 | BSP             | C3B CaP1 TDL CaT         |
| <a href="#">Joint Range Extension Application Protocol (JREAP)</a>   | NATO ATDLP-5.18 Ed C Ver 1 / STANAG FT 5518 Ed 5                       | BSP             | C3B CaP1 TDL CaT         |
| <a href="#">Tactical Data Exchange - Link 16</a>   | NATO Study (expected) ATDLP-5.16 Ed C Ver 1:2019 / STANAG 5516 FT Ed 9 | BSP             | C3B CaP1 TDL CaT         |

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|---|---|---------------|-------------------|
| SOAP Messages with Attachments (SwA) Profile 1.1                      | OASIS wss-v1.1-spec-os-SwAProfile:2006              | BSP           | NCIA/CES          |
| Variable Message Format (VMF) <sup>1</sup>                            | US DoD MIL-STD-6017D:2017                           | BSP           | C3B CaP1          |
| <b>Search Services</b>  |   |               |                   |
| Atom Syndication Format, v1.0   | IETF RFC 4287:2005                                  | PROPOSED-FMN5 | FMN CPWG          |
|   |   | PROPOSED-FMN5 |                   |
| OpenSearch documentation 1.1.x  | Opensearch OpenSearch 1.1:2021                      | PROPOSED-FMN5 | FMN CPWG          |
| RSS 2.0 Specification   | RSS RSS 2.0 Specification:2009                      | PROPOSED-FMN5 | FMN CPWG          |
| eXtensible Markup Language (XML) version 1.0 (Fifth Edition)          | W3C REC-xml-20081126:2008                           | PROPOSED-FMN5 | FMN CPWG          |
| <b>Platform Services</b>  |   |               |                   |
| WS-BrokeredNotification 1.3   | OASIS wsn-ws_brokered_notification-1.3-spec-os:2006 | BSP           | NCIA/CES          |
| Web Services Business Process Execution Language (WSBPEL) version 2.0 | OASIS ws-bpel:2007                                  | BSP           | NCIA/CES          |
| WS-BaseNotification   | OASIS ws-notif:2006                                 | BSP           | NCIA/CES          |
| WS-Topics 1.3   | OASIS wsn-ws_topics-1.3-spec-os:2006                | BSP           | NCIA/CES          |
| Web Services Addressing 1.0 - Core                                    | W3C REC-ws-addr-core-20060509:2006                  | BSP           | FMN CPWG          |
| Attachments Profile Version 1.0                                       | WS-I AttachmentsProfile-1.0-2006-04-20:2004         | BSP           | NCIA/CES          |
| WS-I Basic Profile 1.2  | WS-I BP12:2010                                      | BSP           | NCIA/CES          |
| WS-I Basic Profile 2.0  | WS-I wsbp:2010                                      | BSP           | NCIA/CES          |
| Simple SOAP Binding Profile Version 1.0                               | WS-I SimpleSoapBindingProfile-1.0-2004-08-24:2004   | BSP           | NCIA/CES          |
| <b>Security Token Services</b>  |   |               |                   |

| <b>Title</b>  | <b>Pubnum</b>                                   | <b>Profiles</b> | <b>Responsible Party</b> |
|---|---|-----------------|--------------------------|
| <a href="#">A summary of the X.500(96) User Schema for Use with LDAPv3</a>                                | IETF RFC 2256:1997                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Definition of the inetOrgPerson LDAP Object Class</a>   | IETF RFC 2798:2000                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">RADIUS and IPv6</a>   | IETF RFC 3162:2001                              | BSP             | NCIA/NSII                |
| <a href="#">Uniform Resource Identifiers (URI): Generic Syntax</a>  | IETF RFC 3986:2005                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Lightweight Directory Access Protocol (LDAP) - Schema for User Applications</a>               | IETF RFC 4519:2006                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Internet Message Format</a>   | IETF RFC 5322:2008                              | PROPOSED-FMN5   | NCIA                     |
|   |   | PROPOSED-FMN5   |                          |
| <a href="#">JSON Web Token (JWT)</a>  | IETF RFC 7519:2015                              | PROPOSED-FMN5   | FMN CPWG                 |
|   |   | PROPOSED-FMN5   |                          |
|   |   | PROPOSED-FMN5   |                          |
| <a href="#">JSON Web Token (JWT) Profile for OAuth 2.0 Client Authentication and Authorization Grants</a> | IETF RFC 7523:2015                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Proof-of-Possession Key Semantics for JSON Web Tokens (JWTs)</a>                              | IETF RFC 7800:2016                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">OAuth 2.0 Authorization Server Metadata</a>   | IETF RFC 8414:2017                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">OAuth 2.0 Token Exchange</a>  | IETF RFC 8693:2020                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Resource Indicators for OAuth 2.0</a>   | IETF RFC 8707:2020                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">OASIS SAML Metadata Interoperability Profile</a>  | OASIS SAML V2.0:2005                            | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Web Services Security: SOAP Message Security 1.1</a>  | OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006 | PROPOSED-FMN5   | NCIA/CES                 |

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|---|--|---------------|----------------------------|
| WS-Trust 1.4  | OASIS<br>wstrust-1.4:2012                        | PROPOSED-FMN5 | NCIA/CS                    |
| Single Sign On  | Open Group<br>P702:1997                          | BSP           | C3B CaP4                   |
| <b>Policy Decision Point Services</b>   |  |               |                            |
| Data Format for the Interchange of Fingerprint Facial, and Scar Mark and Tattoo (SMT) Information | ANSI/NIST ITL<br>1-2000:2000                     | BSP           | NCIA/JISR                  |
| Biometric data interchange formats -- Part 2:   | ISO/IEC<br>19794-2:2007                          | BSP           | NCIA/JISR                  |
| Biometric data interchange formats -- Part 5: Face image data                                     | ISO/IEC<br>19794-5:2007                          | BSP           | NCIA/JISR                  |
| Biometric data interchange formats -- Part 6: Iris image data                                     | ISO/IEC<br>19794-6:2007                          | BSP           | NCIA/JISR                  |
| NATO Public Key Infrastructure (NPKI) Certificate Policy (CertP) Rev2.                            | NATO AC/322-D(2004)0024REV2:2008                 | BSP           | C3B NPMA                   |
| eXtensible Access Control Markup Language core specification                                      | OASIS xacml-3.0-core-spec-os:2013                | BSP           | NCIA/CS                    |
| DOD EBTS  | US DoD DIN: DOD_BTFS_TS_EBTS_Nov06_01.02.00:2006 | BSP           | CNAD, AC/224 NAFAG, JCGISR |
| DOD EBTS  | US DoD DIN: DOD_BTFS_TS_EBTS_Mar09_02.00.00:2009 | BSP           | CNAD, AC/224 NAFAG, JCGISR |
| <b>Platform SMC Services</b>  |  |               |                            |
| Remote Network Monitoring Management Information Base, RMON-MIB version 2 using SMIV2             | IETF RFC 2021:1997                               | BSP           | NCIA/SMC                   |
| IP Version 6 Management Information Base for the Transmission Control Protocol                    | IETF RFC 2452:1998                               | BSP           | NCIA/NSII                  |
| IP Version 6 Management Information Base for the User Datagram Protocol                           | IETF RFC 2454:1998                               | BSP           | NCIA/NSII                  |



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| IPv6 MIB   | IETF RFC 2465:1998                 | BSP             | NCIA/SMC                 |
| ICMPv6 MIB   | IETF RFC 2466:1998                 | BSP             | NCIA/SMC                 |
| Multicast Group Membership Discovery MIB                                   | IETF RFC 5519:2009                 | BSP             | NCIA/NSII                |
| Enhanced Telecom Operations Map  | TM-FORUM eTOM Rel.13:2012          | BSP             | NCIA/SMC                 |
| <b>Service Discovery Services</b>  |                                    |                 |                          |
| DNS-Based Service Discovery  | IETF RFC 6763:2013                 | BSP             | NCIA/CES                 |
| TIDE Service Discovery   | NATO TIDE/TIDE-ID-SP:2008          | BSP             | NCIA/CES                 |
| OASIS ebXML Messaging Services Specification                               | OASIS ebms2:2002                   | BSP             | NCIA/CES                 |
| Web Services Dynamic Discovery Version 1.1                                 | OASIS wsdd-discovery-1.1-spec:2009 | BSP             | NCIA/CES                 |
| Web Services Description Language (WSDL) Version 2.0 Part 1: Core Language | W3C REC-wsdl20-20070626:2007       | BSP             | NCIA/Sstrat/Sea          |
| <b>Message-Oriented Middleware Services</b>                                |                                    |                 |                          |
| SOAP Version 1.2   | W3C SOAP Version 1.2:2001          | BSP             | NCIA/CES                 |
| <b>Direct Messaging Services</b>   |                                    |                 |                          |
| Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types         | IETF RFC 2046:1996                 | PROPOSED-FMN5   | FMN CPWG                 |
| Uniform Resource Identifiers (URI): Generic Syntax                         | IETF RFC 3986:2005                 | PROPOSED-FMN5   | FMN CPWG                 |
| The application/json Media Type for JavaScript Object Notation (JSON)      | IETF RFC 4627:2006                 | PROPOSED-FMN5   | FMN CPWG                 |
| PATCH Method for HTTP  | IETF RFC 5789:2010                 | PROPOSED-FMN5   | FMN CPWG                 |
|  |                                    | PROPOSED-FMN5   |                          |
|  |                                    | PROPOSED-FMN5   |                          |



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| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a>                        | IETF RFC 7230:2014                              | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content</a>                             | IETF RFC 7231:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests</a>                              | IETF RFC 7232:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Range Requests</a>                                    | IETF RFC 7233:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Caching</a>   | IETF RFC 7234:2014                              | PROPOSED-FMN5   | FMN CPWG                 |
|   |   | PROPOSED-FMN5   |                          |
| <a href="#">JSON Web Token (JWT)</a>  | IETF RFC 7519:2015                              | PROPOSED-FMN5   | FMN CPWG                 |
|   |   | PROPOSED-FMN5   |                          |
|   |   | PROPOSED-FMN5   |                          |
| <a href="#">JSON Web Token (JWT) Profile for OAuth 2.0 Client Authentication and Authorization Grants</a> | IETF RFC 7523:2015                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Proof-of-Possession Key Semantics for JSON Web Tokens (JWTs)</a>                              | IETF RFC 7800:2016                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">The JavaScript Object Notation (JSON) Data Interchange Format</a>                             | IETF RFC 8259:2017                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">OAuth 2.0 Authorization Server Metadata</a>   | IETF RFC 8414:2017                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">OAuth 2.0 Token Exchange</a>  | IETF RFC 8693:2020                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Resource Indicators for OAuth 2.0</a>   | IETF RFC 8707:2020                              | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">WS-BrokeredNotification 1.3</a>   | OASIS wsn-ws_brokered_notification_spec-os:2006 | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">OASIS SAML Metadata Interoperability Profile</a>  | OASIS SAML V2.0:2005                            | PROPOSED-FMN5   | FMN CPWG                 |

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| WS-BaseNotification  | OASIS ws-notif:2006                             | PROPOSED-FMN5 | NCIA/CES          |
| WS-Topics 1.3  | OASIS wsn-ws_topics-1.3-spec-os:2006            | PROPOSED-FMN5 | NCIA/CES          |
| Web Services Resource Properties                             | OASIS wsrf-ws_resource_properties-spec-os:2006  | PROPOSED-FMN5 | FMN CPWG          |
| Web Services Security SAML Token Profile Version 1.1.1       | OASIS WSS-SAML-Token-Profile-V1.1.1:2012        | PROPOSED-FMN5 | C3B CaP4          |
| Web Services Security: SOAP Message Security 1.1             | OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006 | PROPOSED-FMN5 | NCIA/CES          |
| WS-Trust 1.4   | OASIS wstrust-1.4:2012                          | PROPOSED-FMN5 | NCIA/CS           |
| Web Services Addressing 1.0 - Core                           | W3C REC-ws-addr-core-20060509:2006              | PROPOSED-FMN5 | FMN CPWG          |
| Web Service Description Language (WSDL) 1.1                  | W3C NOTE-wsdl-20010315:2001                     | PROPOSED-FMN5 | FMN CPWG          |
| XHTML™ 1.0 in XML Schema                                     | W3C NOTE-xhtml1-schema-20020902:2002            | PROPOSED-FMN5 | FMN CPWG          |
| SOAP Version 1.2 Part 1: Messaging Framework                 | W3C REC-soap12-part1-20030624:2003              | PROPOSED-FMN5 | NCIA              |
| eXtensible Markup Language (XML) version 1.0 (Fifth Edition) | W3C REC-xml-20081126:2008                       | PROPOSED-FMN5 | FMN CPWG          |
| XML Signature Syntax and Processing Version 1.1              | W3C REC-xmlsig-core1-20130411:2013              | PROPOSED-FMN5 | NCIA              |
| XML Schema Part 1: Structures Second Edition                 | W3C REC-xmlschema-1-20041028:2004               | PROPOSED-FMN5 | FMN CPWG          |
| XML Schema Part 2: Datatypes Second Edition                  | W3C REC-xmlschema-2-20041028:2004               | PROPOSED-FMN5 | FMN CPWG          |
| Basic Security Profile Version 1.1                           | WS-I BasicSecurityProfile-1.1-2009-01-24.html   | PROPOSED-FMN5 | C3B CaP4 :2010    |
| WS-I Basic Profile 2.0                                       | WS-I wsbp:2010                                  | PROPOSED-FMN5 | NCIA/CES          |
| <b>Message Brokering Services</b>                            |   |               |                   |

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| WS-BrokeredNotification 1.3                                      | OASIS wsn-<br>ws_brokered_notification-<br>spec-os:2006  | PROPOSED-<br>FMN5 | NCIA/CES                 |
| WS-BaseNotification  | OASIS ws-notif:2006                                      | PROPOSED-<br>FMN5 | NCIA/CES                 |
| WS-Topics 1.3  | OASIS wsn-<br>ws_topics-1.3-spec-<br>os:2006             | PROPOSED-<br>FMN5 | NCIA/CES                 |
| Web Services Resource Properties                                 | OASIS wsrf-<br>ws_resource_properties-<br>spec-os:2006   | PROPOSED-<br>FMN5 | FMN CPWG                 |
| Web Services Addressing 1.0 - Core                               | W3C REC-ws-addr-<br>core-20060509:2006                   | PROPOSED-<br>FMN5 | FMN CPWG                 |
| <b>Web Platform Services</b>                                     |  |                   |                          |
| Content-ID and Message-ID<br>Uniform Resource Locators           | IETF RFC 2392:1998                                       | BSP               | NCIA/CES                 |
| Web Host Metadata  | IETF RFC 6415:2011                                       | PROPOSED-<br>FMN5 | FMN CPWG                 |
| RESTCONF Protocol  | IETF RFC 8040:2016                                       | PROPOSED-<br>FMN5 | FMN CPWG                 |
| Confidentiality Metadata Label<br>Syntax                         | NATO ADatP-4774<br>Ed A Ver 1:2017 /<br>STANAG 4774 Ed 1 | PROPOSED-<br>FMN5 | C3B CaP1<br>DM CaT       |
| Metadata Binding Mechanism                                       | NATO ADatP-4778<br>Ed A Ver 1:2018 /<br>STANAG 4778 Ed 1 | PROPOSED-<br>FMN5 | C3B CaP1<br>DM CaT       |
| XML Linking Language (XLink)<br>Version 1.1                      | W3C REC-<br>xlink11-20100506:2010                        | BSP               | NCIA/CES                 |
| Extensible Markup Language (XML)<br>version 1.1 (Second Edition) | W3C REC-<br>xml11-20060816:2006                          | BSP               | NCIA/CES                 |
| <b>Web Hosting Services</b>                                      |  |                   |                          |
| Uniform Resource Locators (URL)                                  | IETF RFC 1738:1994                                       | PROPOSED-<br>FMN5 | FMN CPWG                 |
| A summary of the X.500(96) User<br>Schema for Use with LDAPv3    | IETF RFC 2256:1997                                       | PROPOSED-<br>FMN5 | FMN CPWG                 |
| Definition of the inetOrgPerson<br>LDAP Object Class             | IETF RFC 2798:2000                                       | PROPOSED-<br>FMN5 | FMN CPWG                 |

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| Upgrading to TLS Within HTTP/1.1  | IETF RFC 2817:2000 | PROPOSED-FMN5   | FMN CPWG                 |
| The 'text/html' Media Type  | IETF RFC 2854:2000 | PROPOSED-FMN5   | FMN CPWG                 |
| UTF-8, a transformation format of ISO/IEC 10646                                       | IETF RFC 3629:2003 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security Protocol Compression Methods                                 | IETF RFC 3749:2004 | PROPOSED-FMN5   | FMN CPWG                 |
| Uniform Resource Identifiers (URI): Generic Syntax                                    | IETF RFC 3986:2005 | PROPOSED-FMN5   | FMN CPWG                 |
| Atom Syndication Format, v1.0   | IETF RFC 4287:2005 | PROPOSED-FMN5   | FMN CPWG                 |
| Scripting Media Types   | IETF RFC 4329:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Schema for User Applications           | IETF RFC 4519:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| The application/json Media Type for JavaScript Object Notation (JSON)                 | IETF RFC 4627:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Atom Publishing Protocol  | IETF RFC 5023:2007 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS)The Transport Layer Security (TLS) Protocol Version 1.2 | IETF RFC 5246:2008 | PROPOSED-FMN5   | C3B CaP4                 |
| Internet Message Format   | IETF RFC 5322:2008 | PROPOSED-FMN5   | NCIA                     |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar)             | IETF RFC 5545:2009 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Renegotiation Indication Extension                     | IETF RFC 5746:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Extensions: Extension Definitions                      | IETF RFC 6066:2011 | PROPOSED-FMN5   | FMN CPWG                 |
| Web Host Metadata   | IETF RFC 6415:2011 | PROPOSED-FMN5   | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b> | <b>Responsible Party</b> |
|---|--------------------|-----------------|--------------------------|
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing</a>  | IETF RFC 7230:2014 | PROPOSED-FMN5   | NCIA/CES                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content</a>   | IETF RFC 7231:2014 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests</a>  | IETF RFC 7232:2014 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Range Requests</a>  | IETF RFC 7233:2014 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Caching</a>   | IETF RFC 7234:2014 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Hypertext Transfer Protocol (HTTP/1.1): Authentication</a>  | IETF RFC 7235:2014 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS)</a> | IETF RFC 7525:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension</a>                              | IETF RFC 7627:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)</a>                | IETF RFC 7919:2016 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">RESTCONF Protocol</a>   | IETF RFC 8040:2016 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS) Versions 1.2 and Earlier</a>   | IETF RFC 8422:2018 | PROPOSED-FMN5   | FMN CPWG                 |
| <a href="#">The Transport Layer Security (TLS) Protocol Version 1.3</a>   | IETF RFC 8446:2018 | PROPOSED-FMN5   | 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   | PROPOSED-FMN5   | 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   | PROPOSED-FMN5   | 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                                   | PROPOSED-FMN5   | FMN CPWG                 |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines                           | ISO/IEC 10918-1:1994                               | PROPOSED-FMN5   | FMN CPWG                 |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines                           | ISO/IEC 10918-1:1994                               | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 1: OpenDocument Schema                       | ISO/IEC 26300-1:2015                               | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 2: Recalculated Formula (OpenFormula) Format | ISO/IEC 26300-2:2015                               | PROPOSED-FMN5   | FMN CPWG                 |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 3: Packages                                  | ISO/IEC 26300-3:2015                               | PROPOSED-FMN5   | FMN CPWG                 |
| Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference                                    | ISO/IEC 29500-1:2016                               | PROPOSED-FMN5   | C3B CaP1<br>CS CaT       |
| Confidentiality Metadata Label Syntax   | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | PROPOSED-FMN5   | C3B CaP1<br>DM CaT       |
| Metadata Binding Mechanism  | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | PROPOSED-FMN5   | C3B CaP1<br>DM CaT       |
| NATO Message Catalogue  | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6     | PROPOSED-FMN5   | MC,<br>MCJSB,<br>IERHWG  |
| OASIS SAML Metadata Interoperability Profile  | OASIS SAML V2.0:2005                               | PROPOSED-FMN5   | FMN CPWG                 |
| GML application schema for the Simple and GML serializations of GeoRSS  | OGC 1.1:2006                                       | PROPOSED-FMN5   | FMN CPWG                 |
| RSS 2.0 Specification   | RSS RSS 2.0 Specification:2009                     | PROPOSED-FMN5   | FMN CPWG                 |



| Title  | Pubnum                                  | Profiles      | Responsible Party |
|--|---|---------------|-------------------|
|  |   | PROPOSED-FMN5 |                   |
| XHTML™ 1.0 in XML Schema                                     | W3C NOTE-xhtml1-schema-20020902:2002    | PROPOSED-FMN5 | FMN CPWG          |
| Character Model for the World Wide Web 1.0: Fundamentals     | W3C REC-charmod-20050215:2005           | PROPOSED-FMN5 | FMN CPWG          |
| CSS Namespaces Module Level 3                                | W3C REC-css-namespaces-3-20140326:2014  | PROPOSED-FMN5 | FMN CPWG          |
| Cascading Style Sheets, level 2 revision 1                   | W3C REC-CSS2-2011067:2011               | PROPOSED-FMN5 | FMN CPWG          |
| CSS Color Module Level 3                                     | W3C REC-css3-color-20110607:2011        | PROPOSED-FMN5 | FMN CPWG          |
| Media Queries  | W3C REC-css3-mediaqueries-20120619:2012 | PROPOSED-FMN5 | FMN CPWG          |
| Selectors Level 3  | W3C REC-css3-selectors-20110929:2011    | PROPOSED-FMN5 | FMN CPWG          |
| Hypertext Markup Language revision 5 (HTML5)                 | W3C REC-html5-20141028:2014             | PROPOSED-FMN5 | FMN CPWG          |
| Internationalization Tag Set (ITS) Version 1.0               | W3C REC-its-20070403:2007               | PROPOSED-FMN5 | FMN CPWG          |
| Internationalization Tag Set (ITS) Version 2.0               | W3C REC-its20-20131029:2013             | PROPOSED-FMN5 | FMN CPWG          |
| Ruby Annotation  | W3C REC-ruby-20010531:2001              | PROPOSED-FMN5 | FMN CPWG          |
| eXtensible Markup Language (XML) version 1.0 (Fifth Edition) | W3C REC-xml-20081126:2008               | PROPOSED-FMN5 | FMN CPWG          |
| XML Signature Syntax and Processing Version 1.1              | W3C REC-xmlsig-core1-20130411:2013      | PROPOSED-FMN5 | NCIA              |
| XML Schema Part 1: Structures Second Edition                 | W3C REC-xmlschema-1-20041028:2004       | PROPOSED-FMN5 | FMN CPWG          |
| XML Schema Part 2: Datatypes Second Edition                  | W3C REC-xmlschema-2-20041028:2004       | PROPOSED-FMN5 | FMN CPWG          |
| <b>Web Presentation Services</b>                             |   |               |                   |
| Web Services for Remote Portlets Specification               | OASIS wsrp-specification-2.0:2008       | BSP           | NCIA/CES          |
| <b>Information Discovery Services</b>                        |   |               |                   |

| <b>Title</b>   | <b>Pubnum</b>                              | <b>Profiles</b> | <b>Responsible Party</b> |
|--|--|-----------------|--------------------------|
| OpenSearch 1.1 Draft 6   | Opensearch<br>OpenSearch 1.1 Draft 6:2005  | BSP             | FMN CPWG                 |
| <b>Information Access Services</b>   |  |                 |                          |
| MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)                          | IETF RFC 2557:2006                         | BSP             | NCIA/CES                 |
| An Introduction to GeoRSS: A Standards Based Approach for Geo-enabling RSS feeds, v1.0.0 | OGC 06-050r3:2006                          | BSP             | NCIA/AWG                 |
| XForms 1.0   | W3C REC-<br>xforms-20031014:2003           | BSP             | NCIA/CES                 |
| <b>Metadata Repository Services</b>  |  |                 |                          |
| Extensible Messaging and Presence Protocol (XMPP): Core                                  | IETF RFC 6120:2011                         | PROPOSED-FMN5   | NCIA                     |
| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence        | IETF RFC 6121:2011                         | PROPOSED-FMN5   | NCIA                     |
| Extensible Messaging and Presence Protocol (XMPP): Address Format                        | IETF RFC 6122:2011                         | PROPOSED-FMN5   | NCIA                     |
| Web Services Metadata Exchange (WS-MetadataExchange)                                     | W3C REC-ws-metadata-exchange-20111213:2011 | BSP             | NCIA/CES                 |
| Data Forms   | XMPP XEP-0004:2020                         | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0012: Last Activity  | XMPP XEP-0012:2008                         | PROPOSED-FMN5   | FMN CPWG                 |
| Multi-User Chat  | XMPP XEP-0045:2019                         | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0054: vcard-temp   | XMPP XEP-0054:2008                         | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0068: Field Standardization for Data Forms   | XMPP XEP-0068:2012                         | PROPOSED-FMN5   | NCIA                     |
| JID Escaping   | XMPP :2007                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Entity Capabilities  | XMPP XEP-0115:2020                         | PROPOSED-FMN5   | FMN CPWG                 |



| <b>Title</b>  | <b>Pubnum</b>                | <b>Profiles</b> | <b>Responsible Party</b> |
|---|------------------------------|-----------------|--------------------------|
| XEP-0160: Best Practices for Handling Offline Messages  | XMPP XEP-0160 (2016/10):2016 | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0199: XMPP Ping   | XMPP XEP-0199 (2019/03):2019 | PROPOSED-FMN5   | NCIA                     |
| XEP-0202: Entity Time   | XMPP XEP-0202:2009           | PROPOSED-FMN5   | NCIA                     |
| XEP-0203: Delayed Delivery  | XMPP XEP-0203:2009           | PROPOSED-FMN5   | FMN CPWG                 |
| Server Dialback   | XMPP XEP-0220:2015           | PROPOSED-FMN5   | FMN CPWG                 |
| XEP-0346: Form Discovery and Publishing   | XMPP XEP-0346:2017           | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Directory Services</b>   |                              |                 |                          |
| Common Directory Services and Procedures  | CCEB ACP 133(D):2009         | BSP             | C3B NACP CaT             |
| Definition of the inetOrgPerson LDAP Object Class   | IETF RFC 2798:2000           | PROPOSED-FMN5   | FMN CPWG                 |
| The LDAP Data Interchange Format (LDIF) - Technical Specification                             | IETF RFC 2849:2000           | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security Protocol Compression Methods   | IETF RFC 3749:2004           | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Technical Specification Road Map               | IETF RFC 4510:2006           | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - The Protocol                                   | IETF RFC 4511:2006           | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Directory Information Models                   | IETF RFC 4512:2006           | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Authentication Methods and Security Mechanisms | IETF RFC 4513:2006           | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - String Representation of Distinguished Names   | IETF RFC 4514:2006           | PROPOSED-FMN5   | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b> | <b>Responsible Party</b> |
|---|--------------------|-----------------|--------------------------|
| Lightweight Directory Access Protocol (LDAP) - String Representation of Search Filters                        | IETF RFC 4515:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Uniform Resource Locator                                       | IETF RFC 4516:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Syntaxes and Matching Rules                                    | IETF RFC 4517:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Internationalized String Preparation                           | IETF RFC 4518:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Lightweight Directory Access Protocol (LDAP) - Schema for User Applications                                   | IETF RFC 4519:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS)The Transport Layer Security (TLS) Protocol Version 1.2                         | IETF RFC 5246:2008 | PROPOSED-FMN5   | C3B CaP4                 |
| Transport Layer Security (TLS) Renegotiation Indication Extension   | IETF RFC 5746:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Extensions: Extension Definitions  | IETF RFC 6066:2011 | PROPOSED-FMN5   | FMN CPWG                 |
| Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) | IETF RFC 7525:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension                              | IETF RFC 7627:2015 | PROPOSED-FMN5   | FMN CPWG                 |
| Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS)                | IETF RFC 7919:2016 | PROPOSED-FMN5   | FMN CPWG                 |
| Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS) Versions 1.2 and Earlier   | IETF RFC 8422:2018 | PROPOSED-FMN5   | FMN CPWG                 |
| The Transport Layer Security (TLS) Protocol Version 1.3   | IETF RFC 8446:2018 | PROPOSED-FMN5   | FMN CPWG                 |

| Title   | Pubnum   | Profiles           | Responsible Party     |
|---|--|--------------------|-----------------------|
| <b>Choreography Services</b>  |  |                    |                       |
| W3C Web Service Choreography Interface version 1.0  | W3C NOTE-wsci-20020808:2002                      | BSP                | NCIA/CES              |
| <b>Mediation Services</b>   |  |                    |                       |
| Friendly Force Tracking Systems (FFTS) Interoperability                                   | NATO ADatP-36 Ed A Ver 2:2021                    | PROPOSED-FMN5      | C3B CaP2<br>FFT CaT   |
| Services to forward Friendly Force Information to Weapon Delivery Assets                  | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1 | BSP, PROPOSED-FMN5 | C3B CaP2              |
| NATO Message Catalogue  | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6   | PROPOSED-FMN5      | MC, MCJSB, IERHWG     |
| <b>Data Format Transformation Services</b>  |  |                    |                       |
| XML Query Language (XQuery)   | W3C WD-xquery-20030502:2003                      | BSP                | NCIA/CES              |
| <b>Infrastructure Services</b>  |  |                    |                       |
| Real Time Control Protocol (RTCP) attribute in Session Description Protocol (SDP)         | IETF RFC 3605:2003                               | BSP                | NCIA/NSII             |
| The Secure Real-time Transport Protocol (SRTP)  | IETF RFC 3711:2004                               | BSP                | FMN CPWG              |
| NATO Imagery Interpretability Rating Scale (NIIRS)  | NATO AIntP-07 Ed A Ver 1:2018 / STANAG 7194 Ed 2 | BSP                | MC, MCJSB, JINT JISRP |
| Distributed File System (DFS) DCE DFS   | Open Group F209a:1997                            | BSP                | NCIA/CES              |
| <b>Authentication Services</b>  |  |                    |                       |
| The Use of Galois/Counter Mode (GCM) in IPsec Encapsulating Security Payload (ESP)        | IETF RFC 4106:2005                               | PROPOSED-FMN5      | FMN CPWG              |
| IP Encapsulating Security Payload (ESP)   | IETF RFC 4303:2005                               | PROPOSED-FMN5      | FMN CPWG              |
| IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA) | IETF RFC 4754:2007                               | PROPOSED-FMN5      | C3B CaP4              |

| <b>Title</b>  | <b>Pubnum</b>               | <b>Profiles</b> | <b>Responsible Party</b> |
|---|-----------------------------|-----------------|--------------------------|
| Using HMAC-SHA-256, HMAC-SHA-384, and HMAC-SHA-512 with IPsec   | IETF RFC 4868:2007          | PROPOSED-FMN5   | FMN CPWG                 |
| Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2   | IETF RFC 5903:2010          | PROPOSED-FMN5   | FMN CPWG                 |
| Suite B Cryptographic Suites for IPsec  | IETF RFC 6379:2011          | PROPOSED-FMN5   | FMN CPWG                 |
| Internet Key Exchange Protocol Version 2 (IKEv2)  | IETF RFC 7296:2014          | PROPOSED-FMN5   | FMN CPWG                 |
| Algorithm Implementation Requirements and Usage Guidance for the Internet Key Exchange Protocol Version 2 (IKEv2) | IETF RFC 8247:2017          | PROPOSED-FMN5   | FMN CPWG                 |
| <b>Digital Certificate Services</b>   |                             |                 |                          |
| More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE)                             | IETF RFC 3526:2003          | PROPOSED-FMN5   | FMN CPWG                 |
| X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP                                | IETF RFC 6960:2013          | PROPOSED-FMN5   | FMN CPWG                 |
| Textual Encodings of PKIX, PKCS, and CMS Structures   | IETF RFC 7468:2015          | PROPOSED-FMN5   | FMN CPWG                 |
| The Directory: Public-key and attribute certificate frameworks  | ISO/IEC 9594-8:2020         | PROPOSED-FMN5   | FMN CPWG                 |
| Secure Hash Standard (SHS)  | NIST FIPS PUB 180-4:2015    | PROPOSED-FMN5   | C3B CaP4                 |
| Digital Signature Standard (DSS)  | NIST FIPS PUB 186-4:2013    | PROPOSED-FMN5   | FMN CPWG                 |
| Advanced Encryption Standard (AES)  | NIST FIPS PUB 197:2001      | PROPOSED-FMN5   | FMN CPWG                 |
| Recommendation for Pair-Wise Key-Establishment Schemes Using Discrete Logarithm Cryptography                      | NIST SP 800-56A Rev 3:2018  | PROPOSED-FMN5   | FMN CPWG                 |
| Recommendation for Pair-Wise Key Establishment Using Integer Factorization Cryptography                           | US DoC NIST SP 800-56B:2019 | PROPOSED-FMN5   | FMN CPWG                 |

| Title   | Pubnum   | Profiles      | Responsible Party |
|---|--|---------------|-------------------|
| <b>Virtualized Processing Services</b>                              |  |               |                   |
| Virtual Hard Disk Image Format Specification                        | Microsoft :2006                                  | PROPOSED-FMN5 | FMN CPWG          |
| Virtual Disk Format 5.0   | VMware :2011                                     | PROPOSED-FMN5 | FMN CPWG          |
| <b>File System Storage Services</b>                                 |  |               |                   |
|   |  | PROPOSED-FMN5 |                   |
| XML Schema of the Geodatabase                                       | ESRI :2008                                       | PROPOSED-FMN5 | FMN CPWG          |
| JPEG 2000 image coding system — Part 1: Core coding system          | ISO/IEC 15444-1:2019                             | PROPOSED-FMN5 | NCIA/JISR         |
|   |  | PROPOSED-FMN5 |                   |
| NATO Geospatial Information Framework                               | NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2 | PROPOSED-FMN5 | MC, MCJSB, JGS    |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | PROPOSED-FMN5 | MC, MCJSB, JGS    |
| Vector Smart Map (VMAP) Level 1                                     | US DoD MIL-PRF-89033:1995                        | PROPOSED-FMN5 | FMN CPWG          |
| Compressed ARC Digitized Raster Graphics (ADRG)                     | NGA MIL-PRF-89038:1994                           | PROPOSED-FMN5 | FMN CPWG          |
| Vector Smart Map (VMAP) Level 0                                     | US DoD MIL-PRF-89039:1995                        | PROPOSED-FMN5 | FMN CPWG          |
| Raster Product Format   | NGA MIL-STD-2411:2010                            | PROPOSED-FMN5 | FMN CPWG          |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2)                    | OGC 05-047r3:2006                                | PROPOSED-FMN5 | FMN CPWG          |
| <b>Infrastructure Networking Services</b>                           |  |               |                   |
| Default Address Selection for Internet Protocol version 6 (IPv6)    | IETF RFC 6724:2012                               | BSP           | NCIA              |
| Very high speed digital subscriber line transceivers 2 (VDSL2)      | ITU-T G. 993-2:2011                              | BSP           | NCIA/NSII         |

| Title   | Pubnum                           | Profiles      | Responsible Party |
|---|----------------------------------|---------------|-------------------|
| Server Message Block (SMB)  | Microsoft MS-SMB - 20130118:2013 | BSP           | NCIA/CES          |
| X/Open Network File System (C702 Protocols for Inter-working: XNFS, Version 3W)     | Open Group C702:1998             | BSP           | NCIA/CES          |
| DCE 1.1: Remote Procedure Call  | Open Group C706:1997             | BSP           | NCIA/CES          |
| <b>Host Configuration Services</b>  |                                  |               |                   |
| Dynamic Host Configuration Protocol for IPv6 (DHCPv6)                               | IETF RFC 3315:2003               | BSP           | NCIA/NSII         |
| IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6        | IETF RFC 3633:2003               | BSP           | NCIA/NSII         |
| <b>Data Transfer Services</b>   |                                  |               |                   |
| FTP Extensions for IPv6 and NATs  | IETF RFC 2428:1998               | BSP           | NCIA/NSII         |
| <b>Domain Name Services</b>   |                                  |               |                   |
| DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6) | IETF RFC 3646:2003               | BSP           | NCIA/NSII         |
| Network Information Service (NIS) Configuration Options for DHCPv6                  | IETF RFC 3898:2004               | BSP           | NCIA/NSII         |
| A Method for Storing IPsec Keying Material in DNS                                   | IETF RFC 4025:2005               | BSP           | NCIA/CS           |
| Multicast DNS   | IETF RFC 6762:2013               | BSP           | NCIA/NSII         |
| <b>Distributed Time Services</b>  |                                  |               |                   |
| Network Time Protocol (NTP) Version 4: Protocol and Algorithms Specification        | IETF RFC 5905:2010               | PROPOSED-FMN5 | FMN CPWG          |
| DCE 1.1: Time Services  | Open Group C310:1994             | BSP           | NCIA/CES          |

<sup>1</sup>Except Appendix B, List of Geographical Data Field Identifiers (DFIs)

### 1.3.3. Communications Services

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

| <b>Title</b>   | <b>Pubnum</b>  | <b>Profiles</b> | <b>Responsible Party</b>           |
|--|--|-----------------|------------------------------------|
| High Rate Ultra-Wide Band PHY and MAC Standard   | ECMA<br>ECMA-368:2008                                | BSP             | NCIA/NSII                          |
| Broadband Radio Access Networks (BRAN) HiperMAN  | ETSI TS 102<br>624-1:2009                            | BSP             | NCIA/NSII                          |
| ZigBee   | IEEE 802.15.4:2005                                   | BSP             | NCIA/NSII                          |
| Mobile WiMax   | IEEE 802.16e:2005                                    | BSP             | NCIA/NSII                          |
| Wireless Broadband   | IEEE 802.16e:2004                                    | BSP             | NCIA/NSII                          |
| Multiple Spanning Trees  | IEEE 802.1S:2002                                     | BSP             | NCIA/NSII                          |
| Mobile Broadband Wireless Access (Draft)   | IEEE 802.20:2006                                     | BSP             | NCIA/NSII                          |
| Ad-hoc On-Demand Distance Vector Routing (AODV)  | IETF RFC 3561:2003                                   | BSP             | NCIA/NSII                          |
| The Dynamic Source Routing Protocol (DSR) for Mobile Ad Hoc Networks for IPv4  | IETF RFC 4728:2007                                   | BSP             | NCIA/NSII                          |
| IPv6 over Low Power Wireless Personal Area Networks  | IETF RFC 4919:2007                                   | BSP             | NCIA/NSII                          |
| Technical Standards for an Automatic Radio Control System (ARCS) for HF Communication Links <sup>1</sup>                     | NATO Study (expected) STANAG 4538 Ed 2               | BSP             | C3B CaP1<br>Blos Comms             |
| Interoperability Standard for Satellite SHF Deployable Terminals Control and Command Services                                | NATO STANAG 4706 Ed 1:2018                           | BSP             | C3B CaP1<br>SATCOM<br>CaT          |
| Common Alerting Protocol Version 1.2   | OASIS CAP 1.2:2010                                   | BSP             | NCIA/Sstrat/<br>Sea                |
| The Open Grid Services Architecture (OGSA) version 1.5   | OGF draft-ogf-ogsa-spec-1.5-011:2006                 | BSP             | NCIA/CES                           |
| Wireless USB Specification   | USB.ORG wusb:2005                                    | BSP             | NCIA/CES                           |
| <b>Communications Access Services</b>  |  |                 |                                    |
| Standard Interfaces Of Unmanned Aircraft (UA) CONTROL System (UCS) for NATO UA Interoperability - Interface Control Document | NATO AEP-84 Vol 1 Ed.A Ver 1:2017 / STANAG 4586 Ed 4 | BSP             | CNAD,<br>AC/141<br>NNAG,<br>JCGUAS |



| <b>Title</b>   | <b>Pubnum</b>  | <b>Profiles</b> | <b>Responsible Party</b>  |
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| Standard Interfaces Of Unmanned Aircraft (Ua) Control System (UCS) for NATO UA Interoperability - Interface Control Document                 | NATO AEP-84 Vol 2 Ed.A Ver 1:2017 / STANAG 4586 Ed 4   | BSP             | CNAD, AC/141 NNAG, JCGUAS |
| <a href="#">Joint Range Extension Application Protocol (JREAP)</a>   | NATO ATDLP-5.18 Ed C Ver 1 / STANAG FT 5518 Ed 5       | BSP             | C3B CaP1 TDL CaT          |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup> | NATO Study (expected) STANAG 4175 Ed 6                 | BSP             | C3B CaP1 TDL CaT          |
| <b>Communications Security Services</b>  |  |                 |                           |
| <a href="#">The Use of Galois/Counter Mode (GCM) in IPsec Encapsulating Security Payload (ESP)</a>   | IETF RFC 4106:2005                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">IP Encapsulating Security Payload (ESP)</a>  | IETF RFC 4303:2005                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA)</a>                                    | IETF RFC 4754:2007                                     | PROPOSED-FMN5   | C3B CaP4                  |
| <a href="#">Using HMAC-SHA-256, HMAC-SHA-384, and HMAC-SHA-512 with IPsec</a>  | IETF RFC 4868:2007                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2</a>  | IETF RFC 5903:2010                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">Suite B Cryptographic Suites for IPsec</a>   | IETF RFC 6379:2011                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">Internet Key Exchange Protocol Version 2 (IKEv2)</a>   | IETF RFC 7296:2014                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">Algorithm Implementation Requirements and Usage Guidance for the Internet Key Exchange Protocol Version 2 (IKEv2)</a>            | IETF RFC 8247:2017                                     | PROPOSED-FMN5   | FMN CPWG                  |
| <a href="#">Networking and Information Infrastructure (NII) Internet Protocol (IP) Network Encryptor –</a>                                   | NATO AComP-5649 III Ed A Ver 1:2018 / STANAG 4787 Ed 1 | PROPOSED-FMN5   | C3B CaP1 LOS Comms CaT    |



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| Interoperability Specification (NINE ISPEC)  |  |                 |                          |
| <b>Tactical Messaging Access Services</b>  |  |                 |                          |
| Call Sign Book for Ships   | CCEB ACP 113(AJ):2019  | BSP             | C3B NACP CaT             |
| Information Assurance for Allied Communications and Information Systems  | CCEB ACP 122(G):2015   | BSP             | C3B NACP CaT             |
| Address Indicating Groups - Instructions and Assignments   | NATO ACP 100 NS-1(Q)   | BSP             | C3B NACP CaT             |
| Instructions for the Life Cycle Management of Allied Communications Publications (ACPs), NATO Supplement-1                                   | NATO ACP 198 NS-1(H):2014  | BSP             | C3B NACP CaT             |
| Tactical Data Exchange - Link 16 (Study Only) <sup>3</sup>   | NATO Study (expected) ATDLP-5.16 Ed. A Ver. 1 / STANAG 5516 Ed 7       | PROPOSED-FMN5   | C3B CaP1 TDL CaT         |
| Interoperability Standard for Joint Range Extension Application Protocol (JREAP) <sup>4</sup>  | NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4                  | PROPOSED-FMN5   | C3B CaP1 TDL CaT         |
| Joint Range Extension Application Protocol (JREAP)   | NATO ATDLP-5.18 Ed C Ver 1 / STANAG FT 5518 Ed 5                       | BSP             | C3B CaP1 TDL CaT         |
| Tactical Data Exchange - Link 16   | NATO Study (expected) ATDLP-5.16 Ed C Ver 1:2019 / STANAG 5516 FT Ed 9 | BSP             | C3B CaP1 TDL CaT         |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup> | NATO Study (expected) STANAG 4175 Ed 6                                 | BSP             | C3B CaP1 TDL CaT         |
| <b>Packet-based Access Services</b>  |  |                 |                          |

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|--|-----------------------|---------------|-------------------|
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106 | IEC 61754-20-100:2012 | PROPOSED-FMN5 | FMN CPWG          |
| IEEE Standard for Ethernet   | IEEE 802.3:2018       | PROPOSED-FMN5 | FMN CPWG          |
| Path MTU Discovery   | IETF RFC 1191:1990    | PROPOSED-FMN5 | FMN CPWG          |
| Reserved IPv6 Subnet Anycast Addresses   | IETF RFC 2526:1999    | PROPOSED-FMN5 | NCIA              |
| Distributing Authoritative Name Servers via Shared Unicast Addresses                     | IETF RFC 3258:2002    | PROPOSED-FMN5 | FMN CPWG          |
| Unique Local IPv6 Unicast Addresses  | IETF RFC 4193:2005    | PROPOSED-FMN5 | FMN CPWG          |
|  |                       | PROPOSED-FMN5 |                   |
| Operation of Anycast Services  | IETF RFC 4786:2006    | PROPOSED-FMN5 | FMN CPWG          |
| Neighbor Discovery for IPv6  | IETF RFC 4861:2007    | PROPOSED-FMN5 | NCIA              |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links  | IETF RFC 6164:2011    | PROPOSED-FMN5 | FMN CPWG          |
| Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services  | IETF RFC 6382:2011    | PROPOSED-FMN5 | FMN CPWG          |
| Architectural Considerations of IP Anycast   | IETF RFC 7094:2014    | PROPOSED-FMN5 | FMN CPWG          |
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms               | IETF RFC 7721:2016    | PROPOSED-FMN5 | FMN CPWG          |
| Internet Protocol, version 4   | IETF RFC 791:1981     | PROPOSED-FMN5 | NCIA/NSII         |
| Internet Protocol, Version 6 (IPv6) Specification  | IETF RFC 8200:2017    | PROPOSED-FMN5 | FMN CPWG          |
| Ethernet Address Resolution Protocol   | IETF RFC 826:1982     | PROPOSED-FMN5 | NCIA/NSII         |

| <b>Title</b>  | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b> |
|---|--|-----------------|--------------------------|
| A Standard for the Transmission of IP Datagrams over Ethernet Networks                          | IETF RFC 894:1984                                  | PROPOSED-FMN5   | NCIA/NSII                |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017                               | PROPOSED-FMN5   | FMN CPWG                 |
| Characteristics of a single-mode optical fibre and cable  | ITU-T G.652:2016                                   | PROPOSED-FMN5   | FMN CPWG                 |
| <b>IPv4 Routed Access Services</b>  |  |                 |                          |
| Host Extensions for IP Multicasting   | IETF RFC 1112:1989                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Path MTU Discovery  | IETF RFC 1191:1990                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Address Allocation for Private Internets  | IETF RFC 1918:1996                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers         | IETF RFC 2474:1998                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Internet Group Management Protocol, Version 3   | IETF RFC 3376:2002                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan     | IETF RFC 4632:2006                                 | PROPOSED-FMN5   | FMN CPWG                 |
| IANA Guidelines for IPv4 Multicast Address Assignments  | IETF RFC 5771:2010                                 | PROPOSED-FMN5   | FMN CPWG                 |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks                          | IETF RFC 894:1984                                  | PROPOSED-FMN5   | NCIA/NSII                |
| Internet Standard Subnetting Procedure  | IETF RFC 950:1985                                  | PROPOSED-FMN5   | NCIA/NSII                |
| IP QoS for the NII  | NCIA TN-1417                                       | BSP             | C3B CaP1<br>N&S CaT      |
| <b>IPv6 Routed Access Services</b>  |  |                 |                          |
| Interoperability Point Quality of Service (IP QoS)  | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP             | C3B CaP1<br>N&S CaT      |
| <b>Frame-based Access Services</b>  |  |                 |                          |

| <b>Title</b>  | <b>Pubnum</b>  | <b>Profiles</b> | <b>Responsible Party</b>     |
|---|--|-----------------|------------------------------|
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106        | IEC 61754-20-100:2012  | PROPOSED-FMN5   | FMN CPWG                     |
| IEEE Standard for Ethernet  | IEEE 802.3:2018  | PROPOSED-FMN5   | FMN CPWG                     |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017   | PROPOSED-FMN5   | FMN CPWG                     |
| Characteristics of a single-mode optical fibre and cable  | ITU-T G.652:2016   | PROPOSED-FMN5   | FMN CPWG                     |
| <b>Voice Access Services</b>  |  |                 |                              |
| IP access to half-duplex radio networks   | NATO AComP-5634 (FD) Ed A Ver 1:2020 / STANAG (RD) 5634 Ed 1 | PROPOSED-FMN5   | C3B CaP1<br>LOS Comms<br>CaT |
| <b>Transport Services</b>   |  |                 |                              |
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106        | IEC 61754-20-100:2012  | PROPOSED-FMN5   | FMN CPWG                     |
| IEEE Standard for Ethernet  | IEEE 802.3:2018  | PROPOSED-FMN5   | FMN CPWG                     |
| Path MTU Discovery  | IETF RFC 1191:1990   | PROPOSED-FMN5   | FMN CPWG                     |
| Routing Information Protocol next generation for IPv6 (RIPng)                                   | IETF RFC 2080:1997   | BSP             | NCIA/NSII                    |
| IP Version 6 over PPP   | IETF RFC 2472:1998   | BSP             | NCIA/NSII                    |
| Generic Packet Tunneling in IPv6  | IETF RFC 2473:1998   | BSP             | NCIA/NSII                    |
| Reserved IPv6 Subnet Anycast Addresses  | IETF RFC 2526:1999   | PROPOSED-FMN5   | NCIA                         |
| Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing                             | IETF RFC 2545:1999   | BSP             | FMN CPWG                     |
| Stateless IP/ICMP Translation Algorithm (SIIT)  | IETF RFC 2765:2000   | BSP             | NCIA/NSII                    |
| Mobility Support in IPv6  | IETF RFC 3775:2004   | BSP             | NCIA/NSII                    |

| <b>Title</b>  | <b>Pubnum</b>        | <b>Profiles</b> | <b>Responsible Party</b> |
|---|----------------------|-----------------|--------------------------|
| Using IPsec to Protect Mobile IPv6 Signaling Between Mobile Nodes and Home Agents               | IETF RFC 3776:2004   | BSP             | NCIA/CS                  |
| Border Gateway Multicast Protocol (BGMP)  | IETF RFC 3913:2004   | BSP             | NCIA/NSII                |
| Protocol Independent Multicasting Dense Mode (PIM-DM)   | IETF RFC 3973:2005   | BSP             | NCIA/NSII                |
| Unique Local IPv6 Unicast Addresses   | IETF RFC 4193:2005   | PROPOSED-FMN5   | FMN CPWG                 |
|   |                      | PROPOSED-FMN5   |                          |
| Neighbor Discovery for IPv6   | IETF RFC 4861:2007   | PROPOSED-FMN5   | NCIA                     |
| Mobile IPv6 Fast Handovers  | IETF RFC 5568:2009   | BSP             | NCIA/NSII                |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links   | IETF RFC 6164:2011   | PROPOSED-FMN5   | FMN CPWG                 |
| Simplified Multicast Forwarding (SMF)   | IETF RFC 6621:2012   | BSP             | NCIA/NSII                |
| BGP Support for Four-Octet Autonomous System (AS) Number Space                                  | IETF RFC 6793:2012   | BSP             | FMN CPWG                 |
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms                      | IETF RFC 7721:2016   | PROPOSED-FMN5   | FMN CPWG                 |
| Internet Protocol, version 4  | IETF RFC 791:1981    | PROPOSED-FMN5   | NCIA/NSII                |
| Internet Protocol, Version 6 (IPv6) Specification   | IETF RFC 8200:2017   | PROPOSED-FMN5   | FMN CPWG                 |
| Ethernet Address Resolution Protocol  | IETF RFC 826:1982    | PROPOSED-FMN5   | NCIA/NSII                |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks                          | IETF RFC 894:1984    | PROPOSED-FMN5   | NCIA/NSII                |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017 | PROPOSED-FMN5   | FMN CPWG                 |

| Title   | Pubnum             | Profiles      | Responsible Party   |
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| Characteristics of a single-mode optical fibre and cable  | ITU-T G.652:2016   | PROPOSED-FMN5 | FMN CPWG            |
| IP QoS for the NII  | NCIA TN-1417       | BSP           | C3B CaP1<br>N&S CaT |
| <b>Transport Cryptography Services</b>  |                    |               |                     |
| The Use of Galois/Counter Mode (GCM) in IPsec Encapsulating Security Payload (ESP)                                | IETF RFC 4106:2005 | PROPOSED-FMN5 | FMN CPWG            |
| IP Encapsulating Security Payload (ESP)   | IETF RFC 4303:2005 | PROPOSED-FMN5 | FMN CPWG            |
| IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA)                         | IETF RFC 4754:2007 | PROPOSED-FMN5 | C3B CaP4            |
| Using HMAC-SHA-256, HMAC-SHA-384, and HMAC-SHA-512 with IPsec   | IETF RFC 4868:2007 | PROPOSED-FMN5 | FMN CPWG            |
| Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2   | IETF RFC 5903:2010 | PROPOSED-FMN5 | FMN CPWG            |
| Suite B Cryptographic Suites for IPsec  | IETF RFC 6379:2011 | PROPOSED-FMN5 | FMN CPWG            |
| Internet Key Exchange Protocol Version 2 (IKEv2)  | IETF RFC 7296:2014 | PROPOSED-FMN5 | FMN CPWG            |
| Algorithm Implementation Requirements and Usage Guidance for the Internet Key Exchange Protocol Version 2 (IKEv2) | IETF RFC 8247:2017 | PROPOSED-FMN5 | FMN CPWG            |
| <b>Edge Services</b>  |                    |               |                     |
| Path MTU Discovery  | IETF RFC 1191:1990 | PROPOSED-FMN5 | FMN CPWG            |
| Internet Protocol, version 4  | IETF RFC 791:1981  | PROPOSED-FMN5 | NCIA/NSII           |
| Ethernet Address Resolution Protocol  | IETF RFC 826:1982  | PROPOSED-FMN5 | NCIA/NSII           |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks  | IETF RFC 894:1984  | PROPOSED-FMN5 | NCIA/NSII           |

| Title   | Pubnum             | Profiles      | Responsible Party |
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| <b>Packet-based Transport Services</b>  |                    |               |                   |
| Host Extensions for IP Multicasting   | IETF RFC 1112:1989 | PROPOSED-FMN5 | FMN CPWG          |
| Path MTU Discovery  | IETF RFC 1191:1990 | PROPOSED-FMN5 | FMN CPWG          |
| Address Allocation for Private Internets  | IETF RFC 1918:1996 | PROPOSED-FMN5 | FMN CPWG          |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers     | IETF RFC 2474:1998 | PROPOSED-FMN5 | FMN CPWG          |
| Reserved IPv6 Subnet Anycast Addresses  | IETF RFC 2526:1999 | PROPOSED-FMN5 | NCIA              |
| Internet Group Management Protocol, Version 3   | IETF RFC 3376:2002 | PROPOSED-FMN5 | FMN CPWG          |
| Unique Local IPv6 Unicast Addresses   | IETF RFC 4193:2005 | PROPOSED-FMN5 | FMN CPWG          |
|   |                    | PROPOSED-FMN5 |                   |
| Configuration Guidelines for DiffServ Service Classes                                       | IETF RFC 4594:2006 | PROPOSED-FMN5 | FMN CPWG          |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | PROPOSED-FMN5 | FMN CPWG          |
| Neighbor Discovery for IPv6   | IETF RFC 4861:2007 | PROPOSED-FMN5 | NCIA              |
| Mobile IPv6 Support for Dual Stack Hosts and Routers  | IETF RFC 5555:2009 | BSP           | NCIA/NSII         |
| IANA Guidelines for IPv4 Multicast Address Assignments                                      | IETF RFC 5771:2010 | PROPOSED-FMN5 | FMN CPWG          |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links   | IETF RFC 6164:2011 | PROPOSED-FMN5 | FMN CPWG          |
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms                  | IETF RFC 7721:2016 | PROPOSED-FMN5 | FMN CPWG          |
| Internet Protocol, version 4  | IETF RFC 791:1981  | PROPOSED-FMN5 | NCIA/NSII         |



| <b>Title</b>   | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b> |
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| Internet Protocol, Version 6 (IPv6) Specification  | IETF RFC 8200:2017                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Ethernet Address Resolution Protocol   | IETF RFC 826:1982                                  | PROPOSED-FMN5   | NCIA/NSII                |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks   | IETF RFC 894:1984                                  | PROPOSED-FMN5   | NCIA/NSII                |
| Internet Standard Subnetting Procedure   | IETF RFC 950:1985                                  | PROPOSED-FMN5   | NCIA/NSII                |
| Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks | ITU-T J.241:2005                                   | PROPOSED-FMN5   | FMN CPWG                 |
| Performance objectives and procedures for provisioning and maintenance of IP-based networks                        | ITU-T M.2301:2002                                  | PROPOSED-FMN5   | FMN CPWG                 |
| Internet protocol data communication service - IP packet transfer and availability performance parameters          | ITU-T Y.1540 (12/19):2019                          | PROPOSED-FMN5   | FMN CPWG                 |
| Network performance objectives for IP-based services   | ITU-T Y.1541:2011                                  | PROPOSED-FMN5   | FMN CPWG                 |
| Framework for achieving end-to-end IP performance objectives   | ITU-T Y.1542:2010                                  | PROPOSED-FMN5   | FMN CPWG                 |
| Interoperability Point Quality of Service (IP QoS)   | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | PROPOSED-FMN5   | C3B CaP1<br>N&S CaT      |
| IP QoS for the NII   | NCIA TN-1417                                       | BSP             | C3B CaP1<br>N&S CaT      |
| <b>Packet Routing Services</b>   |  |                 |                          |
| A Border Gateway Protocol 4 (BGP-4)  | IETF RFC 4271:2006                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Multiprotocol Extensions for BGP-4   | IETF RFC 4760:2007                                 | PROPOSED-FMN5   | FMN CPWG                 |
| The Generalized TTL Security Mechanism (GTSM)  | IETF RFC 5082:2007                                 | PROPOSED-FMN5   | FMN CPWG                 |



| <b>Title</b>  | <b>Pubnum</b>                                      | <b>Profiles</b> | <b>Responsible Party</b> |
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| Capabilities Advertisement with BGP-4   | IETF RFC 5492:2009                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD)  | IETF RFC 5880:2010                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)                                   | IETF RFC 5881:2010                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Bidirectional Forwarding Detection (BFD) for Multihop Paths   | IETF RFC 5883:2010                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Autonomous-System-Wide Unique BGP Identifier for BGP-4  | IETF RFC 6286:2011                                 | PROPOSED-FMN5   | FMN CPWG                 |
| BGP Support for Four-Octet Autonomous System (AS) Number Space  | IETF RFC 6793:2012                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Revised Error Handling for BGP UPDATE Messages  | IETF RFC 7606:2015                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Default External BGP (EBGP) Route Propagation Behavior without Policies                                   | IETF RFC 8212:2017                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Interoperability Point Quality of Service (IP QoS)  | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP             | C3B CaP1<br>N&S CaT      |
| Standard for Interconnection of IPv4 and IPv6 Networks at Mission Secret and Unclassified Security Levels | NATO AComP-5067 Ed A Ver 1 / STANAG (RD) 5067 Ed 2 | BSP             | C3B CaP1<br>N&S CaT      |
| <b>Packet-based Aggregation Services</b>  |  |                 |                          |
| Interoperability Point Quality of Service (IP QoS)  | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP             | C3B CaP1<br>N&S CaT      |
| <b>Packet-based Broadcast Services</b>  |  |                 |                          |
| Host Extensions for IP Multicasting   | IETF RFC 1112:1989                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Path MTU Discovery  | IETF RFC 1191:1990                                 | PROPOSED-FMN5   | FMN CPWG                 |
| Address Allocation for Private Internets  | IETF RFC 1918:1996                                 | PROPOSED-FMN5   | FMN CPWG                 |

| <b>Title</b>  | <b>Pubnum</b>      | <b>Profiles</b> | <b>Responsible Party</b> |
|---|--------------------|-----------------|--------------------------|
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers     | IETF RFC 2474:1998 | PROPOSED-FMN5   | FMN CPWG                 |
| Reserved IPv6 Subnet Anycast Addresses  | IETF RFC 2526:1999 | PROPOSED-FMN5   | NCIA                     |
| Internet Group Management Protocol, Version 3   | IETF RFC 3376:2002 | PROPOSED-FMN5   | FMN CPWG                 |
| Unique Local IPv6 Unicast Addresses   | IETF RFC 4193:2005 | PROPOSED-FMN5   | FMN CPWG                 |
|   |                    | PROPOSED-FMN5   |                          |
| Configuration Guidelines for DiffServ Service Classes                                       | IETF RFC 4594:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | PROPOSED-FMN5   | FMN CPWG                 |
| Neighbor Discovery for IPv6   | IETF RFC 4861:2007 | PROPOSED-FMN5   | NCIA                     |
| IANA Guidelines for IPv4 Multicast Address Assignments                                      | IETF RFC 5771:2010 | PROPOSED-FMN5   | FMN CPWG                 |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links   | IETF RFC 6164:2011 | PROPOSED-FMN5   | FMN CPWG                 |
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms                  | IETF RFC 7721:2016 | PROPOSED-FMN5   | FMN CPWG                 |
| Internet Protocol, version 4  | IETF RFC 791:1981  | PROPOSED-FMN5   | NCIA/NSII                |
| Internet Protocol, Version 6 (IPv6) Specification   | IETF RFC 8200:2017 | PROPOSED-FMN5   | FMN CPWG                 |
| Ethernet Address Resolution Protocol  | IETF RFC 826:1982  | PROPOSED-FMN5   | NCIA/NSII                |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks                      | IETF RFC 894:1984  | PROPOSED-FMN5   | NCIA/NSII                |
| Internet Standard Subnetting Procedure  | IETF RFC 950:1985  | PROPOSED-FMN5   | NCIA/NSII                |

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| Performance objectives and procedures for provisioning and maintenance of IP-based networks                        | ITU-T M.2301:2002                                  | PROPOSED-FMN5      | FMN CPWG                     |
| Internet protocol data communication service - IP packet transfer and availability performance parameters          | ITU-T Y.1540 (12/19):2019                          | PROPOSED-FMN5      | FMN CPWG                     |
| Network performance objectives for IP-based services   | ITU-T Y.1541:2011                                  | PROPOSED-FMN5      | FMN CPWG                     |
| Framework for achieving end-to-end IP performance objectives   | ITU-T Y.1542:2010                                  | PROPOSED-FMN5      | FMN CPWG                     |
| Interoperability Point Quality of Service (IP QoS)   | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP, PROPOSED-FMN5 | C3B CaP1<br>N&S CaT          |
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| Services to forward Friendly Force Information to Weapon Delivery Assets   | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1   | PROPOSED-FMN5      | C3B CaP2                     |
| <b>Wireless LOS Mobile Transmission Services</b>   |  |                    |                              |
| Bluetooth Core Specification v5.0  | Bluetooth SIG Core Version 5.0:2016                | BSP                | NCIA/NSII                    |
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| Services to forward Friendly Force Information to Weapon Delivery Assets   | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1   | PROPOSED-FMN5      | C3B CaP2                     |
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| Narrowband Waveform for VHF/UHF Radios - Head Specification  | NATO AComP-5630 Ed A Ver 1:2019 / STANAG 5630 Ed 1 | PROPOSED-FMN5      | C3B CaP1<br>LOS Comms<br>CaT |

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| Narrowband Waveform for VHF/UHF Radios - Link Layer   | NATO AComP-5632<br>Ed A Ver 1:2019  | PROPOSED-FMN5   | C3B CaP1<br>LOS Comms<br>CaT |
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| Saturn - A Fast Frequency Hopping ECCM Mode for UHF Radio                                     | NATO STANAG<br>4372 Ed 3:2008   | PROPOSED-FMN5   | C3B CaP1<br>LOS Comms<br>CaT |
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| NATO HDRWF (ESSOR) Introductory Document  | NATO AComP-5651<br>(Study) Ed A Ver 1 - Vol 1 / STANAG 5651 (Study) Ed 1  | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms       |
| HDR WF (ESSOR) LLC Layer Specification and Rationale (SSS) / Interface Control Document (ICD) | NATO AComP-5651<br>(Study) Ed A Ver 1 - Vol 10 / STANAG 5651 (Study) Ed 1 | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms       |
| HDR WF (ESSOR) NET Layer Specification and Rationale (SSS) / Interface Control Document (ICD) | NATO AComP-5651<br>(Study) Ed A Ver 1 - Vol 11                            | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms       |

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| HDR WF (ESSOR) MGT Layer Specification  | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 13 / STANAG 5651 (Study) Ed 1 | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms   |
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| NATO HDRWF (ESSOR) System Specification – Restricted Volume   | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 3 / STANAG 5651 (Study) Ed 1  | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms   |
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| NATO HDRWF (ESSOR) System Specification – Security Target (Restricted)  | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 5 / STANAG 5651 (Study) Ed 1  | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms   |
| NATO HDRWF (ESSOR) System Design Document   | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 6 / STANAG 5651 (Study) Ed 1  | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms   |
| HDR WF (ESSOR) PHY Layer Specification and Rationale (SSS) / Interface Control Document (ICD) – Restricted      | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 7 / STANAG 5651 (Study) Ed 1  | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms   |
| HDR WF (ESSOR) MAC Layer Specification and Rationale (SSS) / Interface Control Document (ICD)                   | NATO AComP-5651 (Study) Ed A Ver 1 -                                   | PROPOSED-FMN5   | C3B CaP1<br>Blos Comms   |

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| <a href="#">HDR WF (ESSOR) MAC Layer Specification and Rationale (SSS) / Interface Control Document (ICD) – Restricted Volume</a>            | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 9 / STANAG 5651 (Study) Ed 1 | PROPOSED-FMN5 | C3B CaP1<br>Blos Comms    |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup> | NATO Study (expected) STANAG 4175 Ed 6                                | BSP           | C3B CaP1<br>TDL CaT       |
| <b>Wireless BLOS Mobile Narrowband Transmission Services</b>   |   |               |                           |
| <a href="#">Digital Interoperability between UHF communications terminals - Integrated Waveform (IWF)</a>                                    | NATO STANAG 4681 Ed 1:2015  | PROPOSED-FMN5 | C3B CaP1<br>SATCOM<br>CaT |

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

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

<sup>3</sup>The extant edition is Ed 5 and Ed 6 is still in ratification

<sup>4</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

### 1.3.4. Extended C3 Taxonomy

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

## 1.4. UNASSIGNED STANDARDS

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

## **CHAPTER 2. CANDIDATE PROFILES**

### **2.1. INTRODUCTION**

011. There is currently no candidate profiles in NISP.

DRAFT

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