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NATO LETTER OF PROMULGATION

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Director, NATO Standardization Office

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RECORD OF SPECIFIC RESERVATIONS

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CHAPTER 1. STANDARDS

1.1. INTRODUCTION

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

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

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

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

1.1.1. Releasability Statement

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

1.2. USER APPLICATIONS

| Title | Pubnum | Profiles | Responsible Party |
|---|--------------------|---------------|-------------------|
| User Applications | | | |
| Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types | IETF RFC 2046:1996 | FMN5-20221202 | FMN CPWG |
| Uniform Resource Identifiers (URI): Generic Syntax | IETF RFC 3986:2005 | FMN5-20221202 | FMN CPWG |
| The application/json Media Type for JavaScript Object Notation (JSON) | IETF RFC 4627:2006 | FMN5-20221202 | FMN CPWG |
| PATCH Method for HTTP | IETF RFC 5789:2010 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|-----------------|--------------------------|
| The OAuth 2.0 Authorization Framework: Bearer Token Usage | IETF RFC 6750:2012 | FMN5-20221202 | NCIA |
| Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing | IETF RFC 7230:2014 | FMN5-20221202 | NCIA/CES |
| Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content | IETF RFC 7231:2014 | FMN5-20221202 | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests | IETF RFC 7232:2014 | FMN5-20221202 | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Range Requests | IETF RFC 7233:2014 | FMN5-20221202 | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Caching | IETF RFC 7234:2014 | FMN5-20221202 | FMN CPWG |
| XML Media Types | IETF RFC 7303:2014 | FMN5-20221202 | FMN CPWG |
| The JavaScript Object Notation (JSON) Data Interchange Format | IETF RFC 8259:2017 | FMN5-20221202 | FMN CPWG |
| OAuth 2.0 Authorization Server Metadata | IETF RFC 8414:2018 | FMN5-20221202 | FMN CPWG |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Profiles for Binding Metadata to a Data Object | NATO ADatP-4778.2 Ed A Ver 1:2020 | FMN5-20221202 | C3B CaP1 DM CaT |
| Web Services Brokered Notification Ver 1.3 | OASIS WS-BrokeredNotification:2006 | FMN5-20221202 | NCIA/CES |
| OASIS SAML V2.0 Metadata Interoperability Profile | OASIS SAML V2.0:2005 | FMN5-20221202 | FMN CPWG |
| WS-BaseNotification | OASIS ws-notif:2006 | FMN5-20221202 | NCIA/CES |
| WS-Topics 1.3 | OASIS wsn-ws_topics-1.3-spec-os:2006 | FMN5-20221202 | NCIA/CES |
| Web Services Resource Properties | OASIS WS-ResourceProperties Ver 1.2:2006 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|-----------------|--------------------------|
| Web Services Security SAML Token Profile Ver 1.1.1 | OASIS WSS SAML Token Profile Ver 1.1.1:2012 | FMN5-20221202 | C3B CaP4 |
| Web Services Security: SOAP Message Security 1.1 | OASIS wss-v1.1-spec-os-SOAPMessageSecurity:2006 | FMN5-20221202 | NCIA/CES |
| Web Services Addressing 1.0 - Core | W3C WS-Addressing 1.0 - Core:2006 | FMN5-20221202 | FMN CPWG |
| Web Service Description Language (WSDL) 1.1 | W3C WSDL 1.1:2001 | FMN5-20221202 | FMN CPWG |
| XHTML™ 1.0 in XML Schema | W3C XHTML 1.0 in XML Schema:2002 | FMN5-20221202 | FMN CPWG |
| SOAP Version 1.2 Part 1: Messaging Framework | W3C REC-soap12-part1-20030624:2007 | FMN5-20221202 | NCIA |
| eXtensible Markup Language (XML) 1.0 (Fifth Edition) | W3C XML 1.0 (Fifth Edition):2008 | FMN5-20221202 | FMN CPWG |
| XML Signature Syntax and Processing Version 1.1 | W3C REC-xmlsig-core1-20130411:2013 | FMN5-20221202 | NCIA |
| XML Schema Part 1: Structures Second Edition | W3C XML Schema Part 1: Structures Ed 2:2004 | FMN5-20221202 | FMN CPWG |
| XML Schema Part 2: Datatypes Second Edition | W3C XML Schema Part 1: Datatypes Ed 2:2004 | FMN5-20221202 | FMN CPWG |
| Basic Security Profile Version 1.1 | WS-I Basic Security Profile 1.1:2010 | FMN5-20221202 | C3B CaP4 |
| WS-I Basic Profile 2.0 | WS-I wsbp:2010 | FMN5-20221202 | NCIA/CES |
| Communication and Collaboration Applications | | | |
| NATO Vector Graphics (NVG) 2.0.2 | NATO NVG 2.0.2:2015 | FMN5-20221202 | FMN CPWG |
| Defense Gridded Elevation Data (DGED) Product Implementation Profile | DIGWG DGIWG-250:2020 | FMN5-20221202 | FMN CPWG |
| ESRI Shapefile Technical Description | ESRI shapefile:1998 | FMN5-20221202 | AMN TMO |
| XML Schema of the Geodatabase | ESRI XML Schema of the Geodatabase:2008 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|-----------------|--------------------------|
| Extensible Messaging and Presence Protocol (XMPP): Core | IETF RFC 6120:2011 | FMN5-20221202 | NCIA |
| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence | IETF RFC 6121:2011 | FMN5-20221202 | NCIA |
| Extensible Messaging and Presence Protocol (XMPP): Address Format | IETF RFC 6122:2011 | FMN5-20221202 | NCIA |
| JPEG 2000 image coding system — Part 1: Core coding system | ISO/IEC 15444-1:2004 | FMN5-20221202 | NCIA/JISR |
| Performance Specification - Digital Terrain Elevation Data | MIL-STD PRF-89020B:2000 | FMN5-20221202 | FMN CPWG |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Profiles for Binding Metadata to a Data Object | NATO ADatP-4778.2 Ed A Ver 1:2020 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Core Data Framework (NCDF) | NATO ADatP-5653 (Study) Ed A Ver 1 / STANAG (Study) 5653 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Geospatial Information Framework | NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2 | FMN5-20221202 | MC, MCJSB, JGS |
| GeoTIFF Raster Format Specification in a NATO Environment | NATO AGeoP-11.3 Ed A Ver 1:2018 | FMN5-20221202 | MC, MCJSB, JGS |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | FMN5-20221202 | MC, MCJSB, JGS |
| NATO Joint Military Symbolology | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7 | FMN5-20221202 | MC, MCJSB, IERHWG |
| Vector Smart Map (VMAP) Level 1 | US DoD MIL-PRF-89033:1995 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|------------------------------|-----------------|--------------------------|
| Compressed ARC Digitized Raster Graphics (ADRG) | NGA MIL-PRF-89038:1994 | FMN5-20221202 | FMN CPWG |
| Vector Smart Map (VMAP) Level 0 | US DoD MIL-PRF-89039:1995 | FMN5-20221202 | FMN CPWG |
| Raster Product Format | NGA MIL-STD-2411:2010 | FMN5-20221202 | FMN CPWG |
| GML in JPEG 2000 for Geographic Imagery Encoding | OGC 08-085r8:2018 | FMN5-20221202 | FMN CPWG |
| XEP-0004: Data Forms (2020/05) | XMPP XEP-0004 (2020/05):2020 | FMN5-20221202 | FMN CPWG |
| XEP-0012: Last Activity | XMPP XEP-0012:2008 | FMN5-20221202 | FMN CPWG |
| XEP-0030: Service Discovery (2017/10) | XMPP XEP-0030 (2017/10):2017 | FMN5-20221202 | FMN CPWG |
| XEP-0045: Multi-User Chat (2019/05) | XMPP XEP-0045 (2019/05):2019 | FMN5-20221202 | FMN CPWG |
| XEP-0054: vcard-temp | XMPP XEP-0054:2008 | FMN5-20221202 | FMN CPWG |
| XEP-0060: Publish-Subscribe (2020/02) | XMPP XEP-0060 (2020/02):2020 | FMN5-20221202 | FMN CPWG |
| XEP-0068: Field Standardization for Data Forms | XMPP XEP-0068:2012 | FMN5-20221202 | NCIA |
| XEP-0106: JID Escaping | XMPP XEP-0106:2007 | FMN5-20221202 | FMN CPWG |
| XEP-0115: Entity Capabilities (2020/05) | XMPP XEP-0115 (2020/05):2020 | FMN5-20221202 | FMN CPWG |
| XEP-0122: Data Forms Validation | XMPP XEP-0122:2004 | FMN5-20221202 | NCIA |
| XEP-0141: Data Forms Layout | XMPP XEP-0141:2005 | FMN5-20221202 | NCIA |
| XEP-0160: Best Practices for Handling Offline Messages (2016/01) | XMPP XEP-0160 (2016/01):2016 | FMN5-20221202 | FMN CPWG |
| XEP-0199: XMPP Ping (2009/06) | XMPP XEP-0199 (2009/06):2009 | FMN5-20221202 | NCIA |

| Title | Pubnum | Profiles | Responsible Party |
|---|------------------------------|---------------|-------------------|
| XEP-0202: Entity Time | XMPP XEP-0202:2009 | FMN5-20221202 | NCIA |
| XEP-0203: Delayed Delivery | XMPP XEP-0203:2009 | FMN5-20221202 | FMN CPWG |
| XEP-0220: Server Dialback (2015/03) | XMPP XEP-0220 (2015/03):2015 | FMN5-20221202 | FMN CPWG |
| XEP-0346: Form Discovery and Publishing | XMPP XEP-0346:2017 | FMN5-20221202 | 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 |
|---|----------------------|---------------|-------------------|
| Intelligence and ISR Functional Services | | | |
| Representation of Names of Languages Part 2: Alpha-3 | ISO 639-2:1998 | FMN5-20221202 | NCIA/Sstrat/Sea |
| Information technology -- Metadata registries (MDR) -- Part 3: Registry metamodel and basic attributes | ISO/IEC 11179-3:2013 | FMN5-20221202 | FMN CPWG |
| Image Processing and Interchange (IPI) - Functional Specification - Part 5: Basic Image Interchange Format (BIIF) | ISO/IEC 12087-5:1998 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|-----------------|----------------------------|
| Technical Corrigendum 1 to International Standard ISO/IEC 12087-5:1998 | ISO/IEC 12087-5 Cor 1:2001 | FMN5-20221202 | FMN CPWG |
| Technical Corrigendum 2 to International Standard ISO/IEC 12087-5:1998 | ISO/IEC 12087-5 Cor 2:2002 | FMN5-20221202 | FMN CPWG |
| Information technology -- Open Distributed Processing -- Interface Definition Language | ISO/IEC 14750:1999 | FMN5-20221202 | FMN CPWG |
| NATO Secondary Imagery Format (NSIF) STANAG 4545 Implementation Guide | NATO AEDP-04 Ed 2 Ver 1:2013 / STANAG 4545 Ed 2 | FMN5-20221202 | CNAD, AC/224 NAFAG, JCGISR |
| NATO Ground Moving Target Indicator (GMTI) Format STANAG 4607 Implementation Guide | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN5-20221202 | FMN CPWG |
| NATO Standard ISR Library Interface | NATO AEDP-17 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN5-20221202 | CNAD, AC/224 NAFAG, JCGISR |
| NATO Standard ISR Streaming Services | NATO AEDP-18 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN5-20221202 | CNAD, AC/224 NAFAG, JCGISR |
| Interoperability Standard for Joint Range Extension Application Protocol (JREAP) ¹ | NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4 | FMN5-20221202 | C3B CaP1 TDL CaT |
| Joint C3 Information Exchange Data Model Baseline 3.1.4 | NATO JC3IEDM Baseline 3.1.4:2012 | FMN5-20221202 | C3B CaP1 DM CaT |
| US Motion Imagery Standards Board (MISB) - Motion Imaginary Standards Profile-2015.1 | NATO NNSTD MISP-2015.1:2016 / STANAG 4609 Ed 4 | FMN5-20221202 | FMN CPWG |
| ISR Exploitation Services | | | |
| NATO Ground Moving Target Indicator (GMTI) Format STANAG 4607 Implementation Guide | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|---------------|----------------------------|
| NATO Standard ISR Streaming Services | NATO AEDP-18 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN5-20221202 | CNAD, AC/224 NAFAG, JCGISR |
| Interoperability Standard for Joint Range Extension Application Protocol (JREAP) ¹ | NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4 | FMN5-20221202 | C3B CaP1 TDL CaT |
| US Motion Imagery Standards Board (MISB) - Motion Imaginary Standards Profile-2015.1 | NATO NNSTD MISP-2015.1:2016 / STANAG 4609 Ed 4 | FMN5-20221202 | FMN CPWG |
| Land Domain Services | | | |
| MIP4 Information Exchange Specification 4.3.1 | MIP MIP4 IES 4.3.1:2020 | FMN5-20221202 | FMN CPWG |
| Web Service Messaging Profile (WSMP) | NATO ADatP-5644 (FD) Ed A Ver 1 / STANAG 5644 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Air Domain Services | | | |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Core Data Framework (NCDF) | NATO ADatP-5653 (Study) Ed A Ver 1 / STANAG (Study) 5653 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Recognized Maritime Picture Services | | | |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Core Data Framework (NCDF) | NATO ADatP-5653 (Study) Ed A Ver | FMN5-20221202 | C3B CaP1 DM CaT |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|---------------|---------------------------|
| | 1 / STANAG (Study) 5653 Ed 1 | | |
| Operational Specification for Over-The-Horizon Targeting Gold (OS-OTG), Baseline 2007 | US DoN OTH-T Gold Baseline 2007:2007 | FMN5-20221202 | FMN CPWG |
| Situational Awareness Services | | | |
| NATO Vector Graphics (NVG) 2.0.2 | NATO NVG 2.0.2:2015 | FMN5-20221202 | FMN CPWG |
| | | FMN5-20221202 | |
| MIP4 Information Exchange Specification 4.3.1 | MIP MIP4 IES 4.3.1:2020 | FMN5-20221202 | FMN CPWG |
| Friendly Force Tracking Systems (FFTS) Interoperability | NATO ADatP-36 Ed A Ver 2:2021 / STANAG 5527 Ed 1 | FMN5-20221202 | 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 | FMN5-20221202 | C3B CaP2 |
| Web Service Messaging Profile (WSMP) | NATO ADatP-5644 (FD) Ed A Ver 1 / STANAG 5644 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security | NATO AEP-76 Vol I Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN5-20221202 | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model | NATO AEP-76 Vol II Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN5-20221202 | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - LOANED RADIO | NATO AEP-76 Vol III Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN5-20221202 | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism | NATO AEP-76 Vol IV Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN5-20221202 | CNAD, AC/225 NAAG, LCGDSS |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|---------------|---------------------------|
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol V Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN5-20221202 | CNAD, AC/225 NAAG, LCGDSS |
| NATO Joint Military Symbolology | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7 | FMN5-20221202 | MC, MCJSB, IERHWG |
| NATO Message Catalogue | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6 | FMN5-20221202 | MC, MCJSB, IERHWG |
| Dismounted Soldier Systems Standards And Protocols for Command, Control, Communications and Computers (C4) Interoperability (DSS C4 Interoperability) | NATO STANAG 4677 Ed 1:2014 | FMN5-20221202 | FMN CPWG |
| Recognized Picture Services | | | |
| NATO Vector Graphics (NVG) 2.0.2 | NATO NVG 2.0.2:2015 | FMN5-20221202 | FMN CPWG |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Core Data Framework (NCDF) | NATO ADatP-5653 (Study) Ed A Ver 1 / STANAG (Study) 5653 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Joint Military Symbolology | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7 | FMN5-20221202 | MC, MCJSB, IERHWG |
| Symbology Services | | | |
| NATO Vector Graphics Specification post version 2.0.2, to be issued 1Q2023 | NATO ADatP-4733 (Study) Ed A Ver 1 / STANAG (Study) 4733 Ed 1 | BSP | C3B CaP1 |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|-----------------|--------------------------|
| TIDE Transformational Baseline Ver 3.0 | NATO TIDE/TTB v3.0:2009 | BSP | NCIA/CES |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2) | OGC 05-047r3:2006 | BSP | FMN CPWG |
| Overlay Services | | | |
| NATO Vector Graphics (NVG) 2.0.2 | NATO NVG 2.0.2:2015 | FMN5-20221202 | FMN CPWG |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Core Data Framework (NCDF) | NATO ADatP-5653 (Study) Ed A Ver 1 / STANAG (Study) 5653 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| NATO Joint Military Symbolology | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7 | FMN5-20221202 | MC, MCJSB, IERHWG |
| Track Management Services | | | |
| Friendly Force Tracking Systems (FFTS) Interoperability | NATO ADatP-36 Ed A Ver 2:2021 / STANAG 5527 Ed 1 | FMN5-20221202 | 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 | FMN5-20221202 | C3B CaP2 |
| Identification Data Combining Process | NATO Study (expected) AIDPP-01 (FD) Ed A Ver 1 / STANAG 4162 Ed 3 | BSP | C3B CaP2 |
| NATO Message Catalogue | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6 | FMN5-20221202 | MC, MCJSB, IERHWG |
| Tactical Data Exchange - Link 16 | NATO Study (expected) ATDLP-5.16 Ed C Ver 1:2019 / | BSP | C3B CaP1 TDL CaT |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|---------------|-------------------------|
| | STANAG FT (Study) 5516 Ed 9 | | |
| Track Distribution Services | | | |
| Friendly Force Tracking Systems (FFTS) Interoperability | NATO ADatP-36 Ed A Ver 2:2021 / STANAG 5527 Ed 1 | FMN5-20221202 | 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 | FMN5-20221202 | C3B CaP2 |
| NATO Message Catalogue | NATO APP-11 Ed D Ver 1:2015 / STANAG 7149 Ed 6 | FMN5-20221202 | MC, MCJSB, IERHWG |
| Modelling and Simulation Services | | | |
| Order of Battle Services | | | |
| MIP4 Information Exchange Specification 4.3.1 | MIP MIP4 IES 4.3.1:2020 | FMN5-20221202 | FMN CPWG |
| Web Service Messaging Profile (WSMP) | NATO ADatP-5644 (FD) Ed A Ver 1 / STANAG 5644 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |

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

1.3.2. Core Services

| Title | Pubnum | Profiles | Responsible Party |
|--|---|---------------|-------------------|
| Geospatial Services | | | |
| Defense Gridded Elevation Data (DGED) Product Implementation Profile | DIGWG DGIWG-250:2020 | FMN5-20221202 | FMN CPWG |
| ESRI Shapefile Technical Description | ESRI shapefile:1998 | FMN5-20221202 | AMN TMO |
| XML Schema of the Geodatabase | ESRI XML Schema of the Geodatabase:2008 | FMN5-20221202 | FMN CPWG |
| JPEG 2000 image coding system — Part 1: Core coding system | ISO/IEC 15444-1:2004 | FMN5-20221202 | NCIA/JISR |
| Performance Specification - Digital Terrain Elevation Data | MIL-STD PRF-89020B:2000 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|---------------|-------------------|
| NATO Geospatial Information Framework | NATO AGeoP-11 Ed B Ver 1:2018 / STANAG 2592 Ed 2 | FMN5-20221202 | MC, MCJSB, JGS |
| GeoTIFF Raster Format Specification in a NATO Environment | NATO AGeoP-11.3 Ed A Ver 1:2018 | FMN5-20221202 | MC, MCJSB, JGS |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | FMN5-20221202 | MC, MCJSB, JGS |
| NATO Geospatial Web Services | NATO Study (expected) AGeoP-26 (Study) Ed B Ver 1 | BSP | MC, MCJSB, JGS |
| Vector Smart Map (VMAP) Level 1 | US DoD MIL-PRF-89033:1995 | FMN5-20221202 | FMN CPWG |
| Compressed ARC Digitized Raster Graphics (ADRG) | NGA MIL-PRF-89038:1994 | FMN5-20221202 | FMN CPWG |
| Vector Smart Map (VMAP) Level 0 | US DoD MIL-PRF-89039:1995 | FMN5-20221202 | FMN CPWG |
| Raster Product Format | NGA MIL-STD-2411:2010 | FMN5-20221202 | FMN CPWG |
| OpenGIS Web Processing Service 1.0.0 | OGC 05-007r7:2007 | BSP | NCIA/AWG |
| GML in JPEG 2000 for Geographic Imagery Encoding | OGC 08-085r8:2018 | FMN5-20221202 | FMN CPWG |
| Geospatial Web Map Tile Services | | | |
| Defence Geospatial Web Services | NATO AGeoP-26 Ed A Ver 1:2020 / STANAG 6523 Ed 1 | FMN5-20221202 | MC, MCJSB, JGS |
| OpenGIS Web Map Tile Service Implementation Standard | OGC 07-057r7:2010 | FMN5-20221202 | NCIA/AWG |
| Geospatial Web Feature Services | | | |
| Defence Profile of OGC Web Feature Service 2.0 | DIGWG DGIWG-122:2019 | FMN5-20221202 | FMN CPWG |
| OGC Web Feature Service 2.0 Interface Standard – With Corrigendum | OGC 09-025r2:2014 | FMN5-20221202 | FMN CPWG |
| Geospatial Coordinate Services | | | |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|---------------|-------------------|
| OpenGIS Coordinate Transformation Services | OGC 01-009:2001 | BSP | NCIA/AWG |
| Geospatial Web Map Services | | | |
| Defence Geospatial Web Services | NATO AGeoP-26 Ed A Ver 1:2020 / STANAG 6523 Ed 1 | FMN5-20221202 | MC, MCJSB, JGS |
| OpenGIS Web Map Service (WMS) Implementation Specification | OGC 06-042:2006 | FMN5-20221202 | FMN CPWG |
| Information Management Services | | | |
| Application Vulnerability Description Language (AVDL) Ver 1.0 | OASIS AVDL Ver 1.0:2004 | BSP | NCIA/CS |
| Search Services | | | |
| Atom Syndication Format, v1.0 | IETF RFC 4287:2005 | FMN5-20221202 | FMN CPWG |
| XML Media Types | IETF RFC 7303:2014 | FMN5-20221202 | FMN CPWG |
| OpenSearch 1.1.0 | Opensearch OpenSearch 1.1.0:2021 | FMN5-20221202 | FMN CPWG |
| RSS 2.0 Specification | RSS RSS 2.0 Specification:2009 | FMN5-20221202 | FMN CPWG |
| eXtensible Markup Language (XML) 1.0 (Fifth Edition) | W3C XML 1.0 (Fifth Edition):2008 | FMN5-20221202 | FMN CPWG |
| Formal Messaging Services | | | |
| Tactical Data Exchange - Link 11/11B | NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG FT 5511 Ed 10 | BSP | C3B CaP1 TDL CaT |
| Joint Range Extension Application Protocol (JREAP) | NATO Study (expected) ATDLP-5.18 (Study) 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 / | BSP | C3B CaP1 TDL CaT |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|---------------|-------------------------------------|
| | STANAG FT (Study) 5516 Ed 9 | | |
| SOAP Messages with Attachments (SwA) Profile 1.1 | OASIS wss-v1.1-spec-os-SwAProfile:2006 | BSP | NCIA/CES |
| Variable Message Format (VMF) ¹ | US DoD MIL-STD-6017D:2017 | BSP | C3B CaP1 |
| Business Support CIS Security Services | | | |
| Common Biometric Exchange Formats Framework (CBEFF) - 2018 Edition | ANSI INCITS 398-2008[R2018]:2008 | BSP | NCIA/JISR |
| Electronic Biometric Transmission Specification (EBTS) Ver 8.1 | FBI EBTS Ver 8.1:2008 | BSP | CNAD, AC/224 NAFAG, JCGISR |
| Business Support SMC Services | | | |
| Trouble Ticket REST API Specification R14.5.1 Interface | TM-FORUM TMF621:2015 | FMN5-20221202 | FMN CPWG |
| Trouble Ticket Management API Conformance Profile R19.0.1 | TM-FORUM TMF621B (2019/11):2019 | FMN5-20221202 | FMN CPWG |
| Service Catalog API User Guide | TM-FORUM TMF633 (2021/01):2021 | FMN5-20221202 | FMN CPWG |
| TMF638 Service Inventory API REST Specification R16.5 | TM-FORUM TMF638:2017 | FMN5-20221202 | FMN CPWG |
| TMForum Resource Inventory Management API REST Specification R17.0.1 | TM-FORUM TMF639:2017 | FMN5-20221202 | FMN CPWG |
| TMF641 Service Ordering API REST Specification R16.5.1 | TM-FORUM TMF641:2017 | FMN5-20221202 | FMN CPWG |
| Alarm Management API User Guide | TM-FORUM TMF642 (2020/05):2020 | FMN5-20221202 | FMN CPWG |
| Change Management API REST Specification R18.0.1 | TM-FORUM TMF655 (2018/09):2018 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--------------------------------------|-----------------|--------------------------|
| Service Quality Management API User Guide | TM-FORUM TMF657 (2020/05):2020 | FMN5-20221202 | FMN CPWG |
| Process Flow Management API REST Specification R19.0.1 | TM-FORUM TMF701 (2019/11):2019 | FMN5-20221202 | FMN CPWG |
| Communication and Collaboration Services | | | |
| HTML5 - A vocabulary and associated APIs for HTML and XHTML (2012) | W3C APIs for HTML5 and XHTML:2012 | BSP | NCIA/CES |
| Fax Services | | | |
| Procedures for real-time Group 3 facsimile communication over IP networks | ITU-T T.38:2010 | BSP | NCIA/NSII |
| Audio-based Communication Services | | | |
| Session Initiation Protocol (SIP) | IETF RFC 3261:2002 | FMN5-20221202 | FMN CPWG |
| Reliability of Provisional Responses in the Session Initiation Protocol (SIP) | IETF RFC 3262:2002 | FMN5-20221202 | FMN CPWG |
| An Offer/Answer Model with the Session Description Protocol (SDP) | IETF RFC 3264:2002 | FMN5-20221202 | FMN CPWG |
| The Session Initiation Protocol (SIP) UPDATE Method | IETF RFC 3311:2002 | FMN5-20221202 | FMN CPWG |
| RTP: A Transport Protocol for Real-Time Applications | IETF RFC 3550:2003 | FMN5-20221202 | FMN CPWG |
| Session Timers in the Session Initiation Protocol (SIP) | IETF RFC 4028:2005 | FMN5-20221202 | FMN CPWG |
| A Border Gateway Protocol 4 (BGP-4) | IETF RFC 4271:2006 | FMN5-20221202 | FMN CPWG |
| A Framework for Conferencing with the Session Initiation Protocol (SIP) | IETF RFC 4353:2006 | FMN5-20221202 | FMN CPWG |
| Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events | IETF RFC 4411:2006 | FMN5-20221202 | FMN CPWG |
| Communications Resource Priority for the Session Initiation Protocol (SIP) | IETF RFC 4412:2006 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|----------------------------|-----------------|--------------------------|
| SDP: Session Description Protocol | IETF RFC 4566:2006 | FMN5-20221202 | FMN CPWG |
| Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents | IETF RFC 4579:2006 | FMN5-20221202 | FMN CPWG |
| RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals | IETF RFC 4733:2006 | FMN5-20221202 | FMN CPWG |
| Multiprotocol Extensions for BGP-4 | IETF RFC 4760:2007 | FMN5-20221202 | FMN CPWG |
| The Generalized TTL Security Mechanism (GTSM) | IETF RFC 5082:2007 | FMN5-20221202 | FMN CPWG |
| Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP) | IETF RFC 5366:2008 | FMN5-20221202 | FMN CPWG |
| Capabilities Advertisement with BGP-4 | IETF RFC 5492:2009 | FMN5-20221202 | FMN CPWG |
| Bidirectional Forwarding Detection (BFD) | IETF RFC 5880:2010 | FMN5-20221202 | FMN CPWG |
| Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop) | IETF RFC 5881:2010 | FMN5-20221202 | FMN CPWG |
| Bidirectional Forwarding Detection (BFD) for Multihop Paths | IETF RFC 5883:2010 | FMN5-20221202 | FMN CPWG |
| Autonomous-System-Wide Unique BGP Identifier for BGP-4 | IETF RFC 6286:2011 | FMN5-20221202 | FMN CPWG |
| SIP-Specific Event Notification | IETF RFC 6665:2012 | FMN5-20221202 | FMN CPWG |
| BGP Support for Four-Octet Autonomous System (AS) Number Space | IETF RFC 6793:2012 | FMN5-20221202 | FMN CPWG |
| Revised Error Handling for BGP UPDATE Messages | IETF RFC 7606:2015 | FMN5-20221202 | FMN CPWG |
| RTP Topologies | IETF RFC 7667:2015 | FMN5-20221202 | FMN CPWG |
| Default External BGP (EBGP) Route Propagation Behavior without Policies | IETF RFC 8212:2017 | FMN5-20221202 | FMN CPWG |
| SCIP Signalling Plan rev.3.3 | CIS3 C&IP SCIP-210:2010 | FMN5-20221202 | C3B CaP1 N&S CaT |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|-----------------|------------------------------|
| SCIP over RTP rev.1.0 | CIS3 C&IP SCIP-214.2:2010 | FMN5-20221202 | C3B CaP1 N&S CaT |
| Securing SIP Signaling - Use of TLS with SCIP | CIS3 C&IP SCIP-214.3:2014 | FMN5-20221202 | C3B CaP1 N&S CaT |
| Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0 | CIS3 C&IP SCIP-233.350:2012 | FMN5-20221202 | C3B CaP1 N&S CaT |
| Secure MELP(e) Voice rev.1.1 | CIS3 C&IP SCIP-233.501:2012 | FMN5-20221202 | C3B CaP1 N&S CaT |
| Secure G.729D Voice Specification Rev. 1.1. | CIS3 C&IP SCIP-233.502:2011 | FMN5-20221202 | C3B CaP1 N&S CaT |
| Notation for national and international telephone numbers, e-mail addresses and web addresses | ITU-T E.123:2001 | FMN5-20221202 | FMN CPWG |
| The international public telecommunication numbering plan | ITU-T E.164:2010 | FMN5-20221202 | FMN CPWG |
| Pulse code modulation (PCM) of voice frequencies | ITU-T G.711:1988 | FMN5-20221202 | 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 | FMN5-20221202 | 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 | FMN5-20221202 | FMN CPWG |
| Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP) | ITU-T G.729:2012 | FMN5-20221202 | FMN CPWG |
| Advanced video coding for generic audiovisual services | ITU-T H.264:2017 | FMN5-20221202 | FMN CPWG |
| IP access to half-duplex radio networks | NATO AComP-5634 Ed A Ver 1:2022 / STANAG 5634 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| International Network Numbering for Communications Systems in use in NATO | NATO STANAG 4705 Ed 1:2015 | FMN5-20221202 | C3B CaP1 N&S CaT |
| Calendaring and Scheduling Services | | | |

| Title | Pubnum | Profiles | Responsible Party |
|---|--------------------|-----------------|--------------------------|
| Internet Calendaring and Scheduling Core Object Specification (iCalendar) | IETF RFC 5545:2009 | FMN5-20221202 | FMN CPWG |
| iCalendar Transport-Independent Interoperability Protocol (iTIP) | IETF RFC 5546:2009 | FMN5-20221202 | FMN CPWG |
| iCalendar Message-Based Interoperability Protocol (iMIP) | IETF RFC 6047:2010 | FMN5-20221202 | FMN CPWG |
| Informal Messaging Services | | | |
| SMTP Service Extension for Message Size Declaration | IETF RFC 1870:1995 | FMN5-20221202 | FMN CPWG |
| The text/enriched MIME Content-type | IETF RFC 1896:1996 | FMN5-20221202 | FMN CPWG |
| SMTP Service Extension for Returning Enhanced Error Codes | IETF RFC 2034:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies | IETF RFC 2045:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types | IETF RFC 2046:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part Three: Message Header Extensions for Non-ASCII Text | IETF RFC 2047:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Example | IETF RFC 2049:1996 | FMN5-20221202 | FMN CPWG |
| SMTP Service Extension for Command Pipelining | IETF RFC 2920:2000 | FMN5-20221202 | FMN CPWG |
| SMTP Service Extension for Secure SMTP over Transport Layer Security (TLS) | IETF RFC 3207:2002 | FMN5-20221202 | FMN CPWG |
| Simple Mail Transfer Protocol (SMTP) Service Extension for Delivery Status Notifications (DSNs) | IETF RFC 3461:2003 | FMN5-20221202 | FMN CPWG |
| UTF-8, a transformation format of ISO/IEC 10646 | IETF RFC 3629:2003 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--------------------|-----------------|--------------------------|
| The Text/Plain Format and DelSp Parameters | IETF RFC 3676:2004 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security Protocol Compression Methods | IETF RFC 3749:2004 | FMN5-20221202 | FMN CPWG |
| SMTP Service Extension for Authentication | IETF RFC 4954:2007 | FMN5-20221202 | FMN CPWG |
| URI Fragment Identifiers for the text/plain Media Type | IETF RFC 5147:2008 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS)The Transport Layer Security (TLS) Protocol Version 1.2 | IETF RFC 5246:2008 | FMN5-20221202 | C3B CaP4 |
| Simple Mail Transfer Protocol | IETF RFC 5321:2008 | FMN5-20221202 | FMN CPWG |
| Internet Message Format | IETF RFC 5322:2008 | FMN5-20221202 | NCIA |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar) | IETF RFC 5545:2009 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS) Renegotiation Indication Extension | IETF RFC 5746:2010 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS) Extensions: Extension Definitions | IETF RFC 6066:2011 | FMN5-20221202 | FMN CPWG |
| SMTP Service Extension for 8-bit MIME Transport | IETF RFC 6152:2011 | FMN5-20221202 | FMN CPWG |
| Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) | IETF RFC 7525:2015 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension | IETF RFC 7627:2015 | FMN5-20221202 | FMN CPWG |
| Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS) | IETF RFC 7919:2016 | FMN5-20221202 | FMN CPWG |
| Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS) Versions 1.2 and Earlier | IETF RFC 8422:2018 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---------------------------------|-----------------|--------------------------|
| The Transport Layer Security (TLS) Protocol Version 1.3 | IETF RFC 8446:2018 | FMN5-20221202 | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1) | ISO 19005-1:2005 | FMN5-20221202 | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2) | ISO 19005-2:2011 | FMN5-20221202 | FMN CPWG |
| Document management — Portable document format — Part 1: PDF 1.7 | ISO 32000-1:2008 | FMN5-20221202 | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines | ISO/IEC 10918-1:1994 | FMN5-20221202 | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Extensions | ISO/IEC 10918-3:1997 | FMN5-20221202 | FMN CPWG |
| Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s; PCM Part 3: audio | ISO/IEC 11172-3:1993 | FMN5-20221202 | NCIA/NSII |
| Generic coding of moving pictures and associated audio information — Part 7: Advanced Audio Coding (AAC) | ISO/IEC 13818-7:2006 | FMN5-20221202 | NCIA/CES |
| Generic coding of moving pictures and associated audio information — Part 7: Advanced Audio Coding (AAC) — Amendment 1: Transport of MPEG Surround in AAC | ISO/IEC 13818-7:2006/Amd 1:2007 | FMN5-20221202 | FMN CPWG |
| Generic coding of moving pictures and associated audio information — Part 7: Advanced Audio Coding (AAC) — Technical Corrigendum 1 | ISO/IEC 3818-7:2006/Cor 1:2009 | FMN5-20221202 | FMN CPWG |
| Generic coding of moving pictures and associated audio information — Part 7: Advanced Audio Coding (AAC) — Technical Corrigendum 2 | ISO/IEC 3818-7:2006/Cor 2:2010 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|-----------------|--------------------------|
| Coding of audio-visual objects — Part 10: Advanced video coding | ISO/IEC 14496-10:2022 | FMN5-20221202 | FMN CPWG |
| Computer graphics and image processing — Portable Network Graphics (PNG): Functional specification | ISO/IEC 15948:2004 | FMN5-20221202 | FMN CPWG |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 1: OpenDocument Schema | ISO/IEC 26300-1:2015 | FMN5-20221202 | FMN CPWG |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 2: Recalculated Formula (OpenFormula) Format | ISO/IEC 26300-2:2015 | FMN5-20221202 | FMN CPWG |
| Open Document Format for Office Applications (OpenDocument) v1.2 -- Part 3: Packages | ISO/IEC 26300-3:2015 | FMN5-20221202 | FMN CPWG |
| Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference | ISO/IEC 29500-1:2012 | FMN5-20221202 | FMN CPWG |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Metadata Binding Mechanism | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN5-20221202 | C3B CaP1 DM CaT |
| Profiles for Binding Metadata to a Data Object | NATO ADatP-4778.2 Ed A Ver 1:2020 | FMN5-20221202 | C3B CaP1 DM CaT |
| XHTML™ 1.0 in XML Schema | W3C XHTML 1.0 in XML Schema:2002 | FMN5-20221202 | FMN CPWG |
| HTML5 - A vocabulary and associated APIs for HTML and XHTML (2014) | W3C APIs for HTML5 and XHTML:2014 | FMN5-20221202 | FMN CPWG |
| Text-based Communication Services | | | |
| NATO Vector Graphics (NVG) 2.0.2 | NATO NVG 2.0.2:2015 | FMN5-20221202 | FMN CPWG |
| Defense Gridded Elevation Data (DGED) Product Implementation Profile | DIGWG DGIWG-250:2020 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|-----------------|--------------------------|
| ESRI Shapefile Technical Description | ESRI shapefile:1998 | FMN5-20221202 | AMN TMO |
| XML Schema of the Geodatabase | ESRI XML Schema of the Geodatabase:2008 | FMN5-20221202 | FMN CPWG |
| The text/enriched MIME Content-type | IETF RFC 1896:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies | IETF RFC 2045:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types | IETF RFC 2046:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part Three: Message Header Extensions for Non-ASCII Text | IETF RFC 2047:1996 | FMN5-20221202 | FMN CPWG |
| Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Example | IETF RFC 2049:1996 | FMN5-20221202 | FMN CPWG |
| The Text/Plain Format and DelSp Parameters | IETF RFC 3676:2004 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security Protocol Compression Methods | IETF RFC 3749:2004 | FMN5-20221202 | FMN CPWG |
| URI Fragment Identifiers for the text/plain Media Type | IETF RFC 5147:2008 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS)The Transport Layer Security (TLS) Protocol Version 1.2 | IETF RFC 5246:2008 | FMN5-20221202 | C3B CaP4 |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar) | IETF RFC 5545:2009 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS) Renegotiation Indication Extension | IETF RFC 5746:2010 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS) Extensions: Extension Definitions | IETF RFC 6066:2011 | FMN5-20221202 | FMN CPWG |
| Extensible Messaging and Presence Protocol (XMPP): Core | IETF RFC 6120:2011 | FMN5-20221202 | NCIA |

| Title | Pubnum | Profiles | Responsible Party |
|---|----------------------|-----------------|--------------------------|
| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence | IETF RFC 6121:2011 | FMN5-20221202 | NCIA |
| Extensible Messaging and Presence Protocol (XMPP): Address Format | IETF RFC 6122:2011 | FMN5-20221202 | NCIA |
| SMTP Service Extension for 8-bit MIME Transport | IETF RFC 6152:2011 | FMN5-20221202 | FMN CPWG |
| Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS) | IETF RFC 7525:2015 | FMN5-20221202 | FMN CPWG |
| Transport Layer Security (TLS) Session Hash and Extended Master Secret Extension | IETF RFC 7627:2015 | FMN5-20221202 | FMN CPWG |
| Negotiated Finite Field Diffie-Hellman Ephemeral Parameters for Transport Layer Security (TLS) | IETF RFC 7919:2016 | FMN5-20221202 | FMN CPWG |
| Elliptic Curve Cryptography (ECC) Cipher Suites for Transport Layer Security (TLS) Versions 1.2 and Earlier | IETF RFC 8422:2018 | FMN5-20221202 | FMN CPWG |
| The Transport Layer Security (TLS) Protocol Version 1.3 | IETF RFC 8446:2018 | FMN5-20221202 | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1) | ISO 19005-1:2005 | FMN5-20221202 | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2) | ISO 19005-2:2011 | FMN5-20221202 | FMN CPWG |
| Document management — Portable document format — Part 1: PDF 1.7 | ISO 32000-1:2008 | FMN5-20221202 | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines | ISO/IEC 10918-1:1994 | FMN5-20221202 | FMN CPWG |
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| Performance Specification - Digital Terrain Elevation Data | MIL-STD PRF-89020B:2000 | FMN5-20221202 | FMN CPWG |
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| Profiles for Binding Metadata to a Data Object | NATO ADatP-4778.2 Ed A Ver 1:2020 | FMN5-20221202 | C3B CaP1 DM CaT |
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| Vector Smart Map (VMAP) Level 0 | US DoD MIL-PRF-89039:1995 | FMN5-20221202 | FMN CPWG |
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| Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events | IETF RFC 4411:2006 | FMN5-20221202 | FMN CPWG |
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| Revised Error Handling for BGP UPDATE Messages | IETF RFC 7606:2015 | FMN5-20221202 | FMN CPWG |
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| Infrastructure Services | | | |
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| Infrastructure Networking Services | | | |
| Very high speed digital subscriber line transceivers 2 (VDSL2) | ITU-T G. 993-2:2011 | BSP | NCIA/NSII |
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| Network Time Protocol (NTP) Version 4: Protocol and Algorithms Specification | IETF RFC 5905:2010 | FMN5-20221202 | FMN CPWG |
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| Digital Certificate Services | | | |
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| X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP | IETF RFC 6960:2013 | FMN5-20221202 | FMN CPWG |
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| Digital Signature Standard (DSS) | NIST FIPS PUB 186-4:2013 | FMN5-20221202 | FMN CPWG |
| Advanced Encryption Standard (AES) | NIST FIPS PUB 197:2001 | FMN5-20221202 | FMN CPWG |
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| Suite B Cryptographic Suites for IPsec | IETF RFC 6379:2011 | FMN5-20221202 | FMN CPWG |
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| Performance Specification - Digital Terrain Elevation Data | MIL-STD PRF-89020B:2000 | FMN5-20221202 | FMN CPWG |
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| GeoTIFF Raster Format Specification in a NATO Environment | NATO AGeoP-11.3 Ed A Ver 1:2018 | FMN5-20221202 | MC, MCJSB, JGS |
| Additional Military Layers (AML) - Digital Geospatial Data Products | NATO AGeoP-19 Ed A Ver 1:2015 / STANAG 7170 Ed 3 | FMN5-20221202 | MC, MCJSB, JGS |
| Vector Smart Map (VMAP) Level 1 | US DoD MIL-PRF-89033:1995 | FMN5-20221202 | FMN CPWG |
| Compressed ARC Digitized Raster Graphics (ADRG) | NGA MIL-PRF-89038:1994 | FMN5-20221202 | FMN CPWG |
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| Web Services Business Process Execution Language (WSBPEL) version 2.0 | OASIS ws-bpel:2007 | BSP | NCIA/CES |
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| Biometric data interchange formats -- Part 2: | ISO/IEC 19794-2:2011 | BSP | NCIA/JISR |
| Biometric data interchange formats -- Part 5: Face image data | ISO/IEC 19794-5:2011 | BSP | NCIA/JISR |
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| eXtensible Access Control Markup Language core specification | OASIS xacml-3.0-core-spec-os:2013 | BSP | NCIA/CS |
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| Security Assertion Markup Language (SAML) 2.0 Profile for OAuth 2.0 Client Authentication and Authorization Grants | IETF RFC 7522:2015 | FMN5-20221202 | NCIA |
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| WS-Trust 1.4 | OASIS wstrust-1.4:2012 | FMN5-20221202 | NCIA/CS |
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| XHTML™ 1.0 in XML Schema | W3C XHTML 1.0 in XML Schema:2002 | FMN5-20221202 | FMN CPWG |
| Character Model for the World Wide Web 1.0: Fundamentals | W3C Character Model for the WWW 1.0:2005 | FMN5-20221202 | FMN CPWG |
| CSS Namespaces Module Level 3 | W3C CSS Namespaces Module Level 3:2014 | FMN5-20221202 | FMN CPWG |
| CSS Style Attributes | W3C CSS Style Attributes:2013 | FMN5-20221202 | FMN CPWG |
| Cascading Style Sheets Level 2 Revision 1 (CSS 2.1) Specification | W3C REC-CSS2-2011067:2011 | FMN5-20221202 | FMN CPWG |
| CSS Color Module Level 3 | W3C CSS Color Module Level 3:2011 | FMN5-20221202 | FMN CPWG |
| CSS Media Queries | W3C CSS Media Queries:2012 | FMN5-20221202 | FMN CPWG |
| CSS Selectors Level 4 | W3C CSS Selectors Level 3:2011 | FMN5-20221202 | FMN CPWG |
| HTML5 - A vocabulary and associated APIs for HTML and XHTML (2014) | W3C APIs for HTML5 and XHTML:2014 | FMN5-20221202 | FMN CPWG |
| Internationalization Tag Set (ITS) Version 1.0 | W3C ITS 1.0:2007 | FMN5-20221202 | FMN CPWG |
| Internationalization Tag Set (ITS) Version 2.0 | W3C ITS 2.0:2013 | FMN5-20221202 | FMN CPWG |
| Ruby Annotation | W3C Ruby Annotation:2001 | FMN5-20221202 | FMN CPWG |
| eXtensible Markup Language (XML) 1.0 (Fifth Edition) | W3C XML 1.0 (Fifth Edition):2008 | FMN5-20221202 | FMN CPWG |
| XML Schema Part 1: Structures Second Edition | W3C XML Schema Part 1: Structures Ed 2:2004 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|---------------|-------------------|
| XML Schema Part 2: Datatypes Second Edition | W3C XML Schema Part 1: Datatypes Ed 2:2004 | FMN5-20221202 | FMN CPWG |

¹Except Appendix B, List of Geographical Data Field Identifiers (DFIs)

1.3.3. Communications Services

| Title | Pubnum | Profiles | Responsible Party |
|---|--|----------|---------------------------|
| Communications Services | | | |
| High Rate Ultra-Wide Band PHY and MAC Standard | ECMA ECMA-368:2008 | BSP | NCIA/NSII |
| Broadband Radio Access Networks (BRAN) HiperMAN | ETSI TS 102 624-1:2009 | BSP | NCIA/NSII |
| ZigBee | IEEE 802.15.4:2005 | BSP | NCIA/NSII |
| Mobile WiMax | IEEE 802.16e:2006 | 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 |
| The Dynamic Source Routing Protocol (DSR) for Mobile Ad Hoc Networks for IPv4 | IETF RFC 4728:2007 | BSP | NCIA/NSII |
| Technical Standards for an Automatic Radio Control System (ARCS) for HF Communication Links ¹ | NATO Study (expected) STANAG 4538 Ed 2 | BSP | C3B CaP1 Blos Comms |
| Interoperability Standard for Satellite SHF Deployable Terminals Control and Command Services | NATO STANAG 4706 Ed 1:2018 | BSP | C3B CaP1 SATCOM CaT |
| Common Alerting Protocol Ver 1.3 | OASIS CAP Ver 1.2:2010 | BSP | NCIA/Sstrat/ Sea |
| The Open Grid Services Architecture (OGSA) version 1.5 | OGF draft-ogf-ogsa-spec-1.5-011:2006 | BSP | NCIA/CES |
| Communications Access Services | | | |
| Standard Interfaces Of Unmanned Aircraft (UA) CONTROL System (UCS) for NATO UA | NATO AEP-84 I Ed A Ver 1:2017 / STANAG 4586 Ed 4 | BSP | CNAD, AC/141 |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|-----------------|---------------------------|
| Interoperability - Interface Control Document | | | NNAG, JCGUAS |
| Standard Interfaces Of Unmanned Aircraft (Ua) Control System (UCS) for NATO UA Interoperability - Interface Control Document | NATO AEP-84 II Ed A Ver 1:2017 / STANAG 4586 Ed 4 | BSP | CNAD, AC/141 NNAG, JCGUAS |
| Joint Range Extension Application Protocol (JREAP) | NATO Study (expected) ATDLP-5.18 (Study) 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 ² | NATO Study (expected) STANAG 4175 Ed 6 | BSP | C3B CaP1 TDL CaT |
| Voice Access Services | | | |
| IP access to half-duplex radio networks | NATO AComP-5634 Ed A Ver 1:2022 / STANAG 5634 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| Tactical Messaging Access Services | | | |
| Call Sign Book for Ships Change 5 | CCEB ACP 113(AJ) Change 5:2019 | 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 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | FMN5-20221202 | C3B CaP1 TDL CaT |
| Interoperability Standard for Joint Range Extension Application Protocol (JREAP) ¹ | NATO ATDLP-5.18 Ed B Ver 2:2019 / | FMN5-20221202 | C3B CaP1 TDL CaT |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|---------------|---------------------|
| | STANAG FT 5518 Ed 4 | | |
| Joint Range Extension Application Protocol (JREAP) | NATO Study (expected) ATDLP-5.18 (Study) 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 FT (Study) 5516 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 ² | NATO Study (expected) STANAG 4175 Ed 6 | BSP | C3B CaP1 TDL CaT |
| Communications Security Services | | | |
| The Use of Galois/Counter Mode (GCM) in IPsec Encapsulating Security Payload (ESP) | IETF RFC 4106:2005 | FMN5-20221202 | FMN CPWG |
| IP Encapsulating Security Payload (ESP) | IETF RFC 4303:2005 | FMN5-20221202 | FMN CPWG |
| IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA) | IETF RFC 4754:2007 | FMN5-20221202 | C3B CaP4 |
| Using HMAC-SHA-256, HMAC-SHA-384, and HMAC-SHA-512 with IPsec | IETF RFC 4868:2007 | FMN5-20221202 | FMN CPWG |
| Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2 | IETF RFC 5903:2010 | FMN5-20221202 | FMN CPWG |
| Suite B Cryptographic Suites for IPsec | IETF RFC 6379:2011 | FMN5-20221202 | FMN CPWG |
| Internet Key Exchange Protocol Version 2 (IKEv2) | IETF RFC 7296:2014 | FMN5-20221202 | FMN CPWG |
| Algorithm Implementation Requirements and Usage Guidance | IETF RFC 8247:2017 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|---------------|------------------------------|
| for the Internet Key Exchange Protocol Version 2 (IKEv2) | | | |
| Networking and Information Infrastructure (NII) Internet Protocol (IP) Network Encryptor – Interoperability Specification (NINE ISPEC) | NATO AComp-4787 Ed A Ver 1:2018 / STANAG 4787 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| Frame-based Access Services | | | |
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106 | IEC 61754-20-100:2012 | FMN5-20221202 | FMN CPWG |
| IEEE Standard for Ethernet | IEEE 802.3:2018 | FMN5-20221202 | FMN CPWG |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017 | FMN5-20221202 | FMN CPWG |
| Characteristics of a single-mode optical fibre and cable | ITU-T G.652:2016 | FMN5-20221202 | FMN CPWG |
| Packet-based Access Services | | | |
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106 | IEC 61754-20-100:2012 | FMN5-20221202 | FMN CPWG |
| IEEE Standard for Ethernet | IEEE 802.3:2018 | FMN5-20221202 | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN5-20221202 | FMN CPWG |
| Reserved IPv6 Subnet Anycast Addresses | IETF RFC 2526:1999 | FMN5-20221202 | NCIA |
| Distributing Authoritative Name Servers via Shared Unicast Addresses | IETF RFC 3258:2002 | FMN5-20221202 | FMN CPWG |
| Unique Local IPv6 Unicast Addresses | IETF RFC 4193:2005 | FMN5-20221202 | FMN CPWG |
| Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification | IETF RFC 4443:2006 | FMN5-20221202 | FMN CPWG |
| Operation of Anycast Services | IETF RFC 4786:2006 | FMN5-20221202 | FMN CPWG |
| Neighbor Discovery for IP version 6 (IPv6) | IETF RFC 4861:2007 | FMN5-20221202 | NCIA |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|-----------------|--------------------------|
| Using 127-Bit IPv6 Prefixes on Inter-Router Links | IETF RFC 6164:2011 | FMN5-20221202 | FMN CPWG |
| Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services | IETF RFC 6382:2011 | FMN5-20221202 | FMN CPWG |
| Architectural Considerations of IP Anycast | IETF RFC 7094:2014 | FMN5-20221202 | FMN CPWG |
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms | IETF RFC 7721:2016 | FMN5-20221202 | FMN CPWG |
| Internet Protocol, version 4 | IETF RFC 791:1981 | FMN5-20221202 | NCIA/NSII |
| Internet Protocol, Version 6 (IPv6) Specification | IETF RFC 8200:2017 | FMN5-20221202 | FMN CPWG |
| Ethernet Address Resolution Protocol | IETF RFC 826:1982 | FMN5-20221202 | NCIA/NSII |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks | IETF RFC 894:1984 | FMN5-20221202 | NCIA/NSII |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017 | FMN5-20221202 | FMN CPWG |
| Characteristics of a single-mode optical fibre and cable | ITU-T G.652:2016 | FMN5-20221202 | FMN CPWG |
| IPv6 Routed Access Services | | | |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP | C3B CaP1 N&S CaT |
| IPv4 Routed Access Services | | | |
| Host Extensions for IP Multicasting | IETF RFC 1112:1989 | FMN5-20221202 | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN5-20221202 | FMN CPWG |
| Address Allocation for Private Internets | IETF RFC 1918:1996 | FMN5-20221202 | FMN CPWG |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers | IETF RFC 2474:1998 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|-----------------|---------------------------|
| Internet Group Management Protocol, Version 3 | IETF RFC 3376:2002 | FMN5-20221202 | FMN CPWG |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | FMN5-20221202 | FMN CPWG |
| IANA Guidelines for IPv4 Multicast Address Assignments | IETF RFC 5771:2010 | FMN5-20221202 | FMN CPWG |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks | IETF RFC 894:1984 | FMN5-20221202 | NCIA/NSII |
| Internet Standard Subnetting Procedure | IETF RFC 950:1985 | FMN5-20221202 | NCIA/NSII |
| IP QoS for the NII | NCIA TN-1417 | BSP | C3B CaP1 N&S CaT |
| Wireless BLOS Mobile Narrowband Transmission Services | | | |
| Interoperability between Ultra High Frequency Satellite Communications (UHF SATCOM) Terminals - Integrated Waveform (IW) | NATO AComP-4681 Ed A Ver 1:2022 / STANAG 4681 Ed 2 | FMN5-20221202 | C3B CaP1 SATCOM CaT |
| Wired Transmission Services | | | |
| Friendly Force Tracking Systems (FFTS) Interoperability | NATO ADatP-36 Ed A Ver 2:2021 / STANAG 5527 Ed 1 | FMN5-20221202 | 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 | FMN5-20221202 | C3B CaP2 |
| Wireless LOS Mobile Transmission Services | | | |
| Bluetooth Core Specification 5.1 | Bluetooth SIG Bluetooth 5.0:2016 | BSP | NCIA/NSII |
| Friendly Force Tracking Systems (FFTS) Interoperability | NATO ADatP-36 Ed A Ver 2:2021 / STANAG 5527 Ed 1 | FMN5-20221202 | 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 | FMN5-20221202 | C3B CaP2 |
| Wireless LOS Mobile Wideband Transmission Services | | | |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|-----------------|------------------------------|
| NATO High Capacity Data Rate Waveform (NHCDRWF) - Head Specification | NATO AComP-5649 (Study) I Ed A Ver 1 / STANAG (Study) 5649 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| NATO High Capacity Data Rate Waveform (NHCDRWF) - Link/Network Layer Specification | NATO AComP-5649 (Study) II Ed A Ver 1 / STANAG (Study) 5649 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| NATO High Capacity Data Rate Waveform (NHCDRWF) - Modem Specification | NATO AComP-5649 (Study) III Ed A Ver 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| NATO HDRWF (ESSOR) Introductory Document | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 1 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) LLC Layer Specification and Rationale (SSS) / Interface Control Document (ICD) | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 10 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) NET Layer Specification and Rationale (SSS) / Interface Control Document (ICD) | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 11 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) NET Layer Specification and Rationale (SSS) / Interface Control Document (ICD) Restricted Volume | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 12 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) MGT Layer Specification | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 13 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) MGT Layer Specification - Restricted volume | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 14 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| NATO HDRWF (ESSOR) System Specification | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 2 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|-----------------|------------------------------|
| NATO HDRWF (ESSOR) System Specification – Restricted Volume | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 3 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| NATO HDRWF (ESSOR) System Specification – Confidential Volume | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 4 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| NATO HDRWF (ESSOR) System Specification – Security Target (Restricted) | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 5 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| NATO HDRWF (ESSOR) System Design Document | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 6 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 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 (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) MAC Layer Specification and Rationale (SSS) / Interface Control Document (ICD) | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 8 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| HDR WF (ESSOR) MAC Layer Specification and Rationale (SSS) / Interface Control Document (ICD) – Restricted Volume | NATO AComP-5651 (Study) Ed A Ver 1 - Vol 9 / STANAG (Study) 5651 Ed 1 | FMN5-20221202 | C3B CaP1 Blos Comms |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A ² | NATO Study (expected) STANAG 4175 Ed 6 | BSP | C3B CaP1 TDL CaT |
| Wireless LOS Mobile Narrowband Transmission Services | | | |
| SATURN - A Fast Frequency Hopping ECCM Mode for UHF Radio | NATO AComP-4372 Ed A Ver 1:2019 / STANAG 4372 Ed 4 | FMN5-20221202 | MC, MCJSB, JGS |
| Narrowband Waveform for VHF/UHF Radios - Head Specification | NATO AComP-5630 Ed A Ver 1:2019 / STANAG 5630 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|-----------------|------------------------------|
| Narrowband Waveform for VHF/UHF Radios - Physical Layer and Propagation Models | NATO AComP-5631 Ed A Ver 1:2019 / STANAG 5630 Ed 1 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| Narrowband Waveform for VHF/UHF Radios - Link Layer | NATO AComP-5632 Ed A Ver 1:2019 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| Narrowband Waveform for VHF/UHF Radios - Network Layer | NATO AComP-5633 Ed A Ver 1:2019 | FMN5-20221202 | C3B CaP1 LOS Comms CaT |
| Voice Coding Algorithm | NATO STANAG 4444 Ed 2:2015 | BSP | C3B CaP1 Blos Comms |
| Transport Services | | | |
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106 | IEC 61754-20-100:2012 | FMN5-20221202 | FMN CPWG |
| IEEE Standard for Ethernet | IEEE 802.3:2018 | FMN5-20221202 | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN5-20221202 | FMN CPWG |
| IP Version 6 over PPP | IETF RFC 2472:1998 | BSP | NCIA/NSII |
| Reserved IPv6 Subnet Anycast Addresses | IETF RFC 2526:1999 | FMN5-20221202 | 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 |
| Unique Local IPv6 Unicast Addresses | IETF RFC 4193:2005 | FMN5-20221202 | FMN CPWG |
| Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification | IETF RFC 4443:2006 | FMN5-20221202 | FMN CPWG |
| Neighbor Discovery for IP version 6 (IPv6) | IETF RFC 4861:2007 | FMN5-20221202 | NCIA |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links | IETF RFC 6164:2011 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|----------------------|-----------------|--------------------------|
| 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 | FMN5-20221202 | FMN CPWG |
| Internet Protocol, version 4 | IETF RFC 791:1981 | FMN5-20221202 | NCIA/NSII |
| Internet Protocol, Version 6 (IPv6) Specification | IETF RFC 8200:2017 | FMN5-20221202 | FMN CPWG |
| Ethernet Address Resolution Protocol | IETF RFC 826:1982 | FMN5-20221202 | NCIA/NSII |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks | IETF RFC 894:1984 | FMN5-20221202 | NCIA/NSII |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017 | FMN5-20221202 | FMN CPWG |
| Characteristics of a single-mode optical fibre and cable | ITU-T G.652:2016 | FMN5-20221202 | FMN CPWG |
| IP QoS for the NII | NCIA TN-1417 | BSP | C3B CaP1 N&S CaT |
| Packet-based Broadcast Services | | | |
| Host Extensions for IP Multicasting | IETF RFC 1112:1989 | FMN5-20221202 | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN5-20221202 | FMN CPWG |
| Address Allocation for Private Internets | IETF RFC 1918:1996 | FMN5-20221202 | FMN CPWG |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers | IETF RFC 2474:1998 | FMN5-20221202 | FMN CPWG |
| Reserved IPv6 Subnet Anycast Addresses | IETF RFC 2526:1999 | FMN5-20221202 | NCIA |
| Internet Group Management Protocol, Version 3 | IETF RFC 3376:2002 | FMN5-20221202 | FMN CPWG |
| Unique Local IPv6 Unicast Addresses | IETF RFC 4193:2005 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|---------------------------|-----------------|--------------------------|
| Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification | IETF RFC 4443:2006 | FMN5-20221202 | FMN CPWG |
| Configuration Guidelines for DiffServ Service Classes | IETF RFC 4594:2006 | FMN5-20221202 | FMN CPWG |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | FMN5-20221202 | FMN CPWG |
| Neighbor Discovery for IP version 6 (IPv6) | IETF RFC 4861:2007 | FMN5-20221202 | NCIA |
| IANA Guidelines for IPv4 Multicast Address Assignments | IETF RFC 5771:2010 | FMN5-20221202 | FMN CPWG |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links | IETF RFC 6164:2011 | FMN5-20221202 | FMN CPWG |
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms | IETF RFC 7721:2016 | FMN5-20221202 | FMN CPWG |
| Internet Protocol, version 4 | IETF RFC 791:1981 | FMN5-20221202 | NCIA/NSII |
| Internet Protocol, Version 6 (IPv6) Specification | IETF RFC 8200:2017 | FMN5-20221202 | FMN CPWG |
| Ethernet Address Resolution Protocol | IETF RFC 826:1982 | FMN5-20221202 | NCIA/NSII |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks | IETF RFC 894:1984 | FMN5-20221202 | NCIA/NSII |
| Internet Standard Subnetting Procedure | IETF RFC 950:1985 | FMN5-20221202 | NCIA/NSII |
| Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks | ITU-T J.241:2005 | FMN5-20221202 | FMN CPWG |
| Performance objectives and procedures for provisioning and maintenance of IP-based networks | ITU-T M.2301:2002 | FMN5-20221202 | FMN CPWG |
| Internet protocol data communication service - IP packet | ITU-T Y.1540 (12/19):2019 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|--------------------|-------------------|
| transfer and availability performance parameters | | | |
| Network performance objectives for IP-based services | ITU-T Y.1541:2011 | FMN5-20221202 | FMN CPWG |
| Framework for achieving end-to-end IP performance objectives | ITU-T Y.1542:2010 | FMN5-20221202 | FMN CPWG |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP, FMN5-20221202 | C3B CaP1 N&S CaT |
| Packet-based Aggregation Services | | | |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP | C3B CaP1 N&S CaT |
| Transport Cryptography Services | | | |
| The Use of Galois/Counter Mode (GCM) in IPsec Encapsulating Security Payload (ESP) | IETF RFC 4106:2005 | FMN5-20221202 | FMN CPWG |
| IP Encapsulating Security Payload (ESP) | IETF RFC 4303:2005 | FMN5-20221202 | FMN CPWG |
| IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA) | IETF RFC 4754:2007 | FMN5-20221202 | C3B CaP4 |
| Using HMAC-SHA-256, HMAC-SHA-384, and HMAC-SHA-512 with IPsec | IETF RFC 4868:2007 | FMN5-20221202 | FMN CPWG |
| Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2 | IETF RFC 5903:2010 | FMN5-20221202 | FMN CPWG |
| Suite B Cryptographic Suites for IPsec | IETF RFC 6379:2011 | FMN5-20221202 | FMN CPWG |
| Internet Key Exchange Protocol Version 2 (IKEv2) | IETF RFC 7296:2014 | FMN5-20221202 | FMN CPWG |
| Algorithm Implementation Requirements and Usage Guidance for the Internet Key Exchange Protocol Version 2 (IKEv2) | IETF RFC 8247:2017 | FMN5-20221202 | FMN CPWG |
| Edge Services | | | |

| Title | Pubnum | Profiles | Responsible Party |
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| Path MTU Discovery | IETF RFC 1191:1990 | FMN5-20221202 | FMN CPWG |
| Internet Protocol, version 4 | IETF RFC 791:1981 | FMN5-20221202 | NCIA/NSII |
| Ethernet Address Resolution Protocol | IETF RFC 826:1982 | FMN5-20221202 | NCIA/NSII |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks | IETF RFC 894:1984 | FMN5-20221202 | NCIA/NSII |
| Packet-based Transport Services | | | |
| Host Extensions for IP Multicasting | IETF RFC 1112:1989 | FMN5-20221202 | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN5-20221202 | FMN CPWG |
| Address Allocation for Private Internets | IETF RFC 1918:1996 | FMN5-20221202 | FMN CPWG |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers | IETF RFC 2474:1998 | FMN5-20221202 | FMN CPWG |
| Reserved IPv6 Subnet Anycast Addresses | IETF RFC 2526:1999 | FMN5-20221202 | NCIA |
| Internet Group Management Protocol, Version 3 | IETF RFC 3376:2002 | FMN5-20221202 | FMN CPWG |
| Unique Local IPv6 Unicast Addresses | IETF RFC 4193:2005 | FMN5-20221202 | FMN CPWG |
| Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification | IETF RFC 4443:2006 | FMN5-20221202 | FMN CPWG |
| Configuration Guidelines for DiffServ Service Classes | IETF RFC 4594:2006 | FMN5-20221202 | FMN CPWG |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | FMN5-20221202 | FMN CPWG |
| Neighbor Discovery for IP version 6 (IPv6) | IETF RFC 4861:2007 | FMN5-20221202 | NCIA |
| IANA Guidelines for IPv4 Multicast Address Assignments | IETF RFC 5771:2010 | FMN5-20221202 | FMN CPWG |
| Using 127-Bit IPv6 Prefixes on Inter-Router Links | IETF RFC 6164:2011 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|-----------------|--------------------------|
| Security and Privacy Considerations for IPv6 Address Generation Mechanisms | IETF RFC 7721:2016 | FMN5-20221202 | FMN CPWG |
| Internet Protocol, version 4 | IETF RFC 791:1981 | FMN5-20221202 | NCIA/NSII |
| Internet Protocol, Version 6 (IPv6) Specification | IETF RFC 8200:2017 | FMN5-20221202 | FMN CPWG |
| Ethernet Address Resolution Protocol | IETF RFC 826:1982 | FMN5-20221202 | NCIA/NSII |
| A Standard for the Transmission of IP Datagrams over Ethernet Networks | IETF RFC 894:1984 | FMN5-20221202 | NCIA/NSII |
| Internet Standard Subnetting Procedure | IETF RFC 950:1985 | FMN5-20221202 | NCIA/NSII |
| Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks | ITU-T J.241:2005 | FMN5-20221202 | FMN CPWG |
| Performance objectives and procedures for provisioning and maintenance of IP-based networks | ITU-T M.2301:2002 | FMN5-20221202 | FMN CPWG |
| Internet protocol data communication service - IP packet transfer and availability performance parameters | ITU-T Y.1540 (12/19):2019 | FMN5-20221202 | FMN CPWG |
| Network performance objectives for IP-based services | ITU-T Y.1541:2011 | FMN5-20221202 | FMN CPWG |
| Framework for achieving end-to-end IP performance objectives | ITU-T Y.1542:2010 | FMN5-20221202 | FMN CPWG |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | FMN5-20221202 | C3B CaP1 N&S CaT |
| IP QoS for the NII | NCIA TN-1417 | BSP | C3B CaP1 N&S CaT |
| Packet Routing Services | | | |
| A Border Gateway Protocol 4 (BGP-4) | IETF RFC 4271:2006 | FMN5-20221202 | FMN CPWG |
| Multiprotocol Extensions for BGP-4 | IETF RFC 4760:2007 | FMN5-20221202 | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|---------------|---------------------|
| The Generalized TTL Security Mechanism (GTSM) | IETF RFC 5082:2007 | FMN5-20221202 | FMN CPWG |
| Capabilities Advertisement with BGP-4 | IETF RFC 5492:2009 | FMN5-20221202 | FMN CPWG |
| Bidirectional Forwarding Detection (BFD) | IETF RFC 5880:2010 | FMN5-20221202 | FMN CPWG |
| Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop) | IETF RFC 5881:2010 | FMN5-20221202 | FMN CPWG |
| Bidirectional Forwarding Detection (BFD) for Multihop Paths | IETF RFC 5883:2010 | FMN5-20221202 | FMN CPWG |
| Autonomous-System-Wide Unique BGP Identifier for BGP-4 | IETF RFC 6286:2011 | FMN5-20221202 | FMN CPWG |
| BGP Support for Four-Octet Autonomous System (AS) Number Space | IETF RFC 6793:2012 | FMN5-20221202 | FMN CPWG |
| Revised Error Handling for BGP UPDATE Messages | IETF RFC 7606:2015 | FMN5-20221202 | FMN CPWG |
| Default External BGP (EBGP) Route Propagation Behavior without Policies | IETF RFC 8212:2017 | FMN5-20221202 | FMN CPWG |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP | C3B CaP1 N&S CaT |
| Standard for Interconnection of IPv4 and IPv6 Networks at Mission Secret and Unclassified Security Levels | NATO AComP-5067 Ed A Ver 1 / STANAG (RD) 5067 Ed 2 | BSP | C3B CaP1 N&S CaT |

¹The extant edition is Ed 1

²The extant edition is Ed 5

1.3.4. Extended C3 Taxonomy

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

1.4. UNASSIGNED STANDARDS

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

DRAFT

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CHAPTER 2. CANDIDATE PROFILES

2.1. INTRODUCTION

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

Table 2.1. Candidate Profiles

| Service Area | Title |
|---|---|
| Abstract | |
| URI | |
| Federated Mission Networking | Proposed FMN Spiral 5 Profile (Baseline 100117) |
| This document provides an overview of the standards that have been used in the FMN Spiral 5 Specification and secondly, the standard profiles that have been developed to provide implementation guidance for these sets of standards in the Capability Enhancements. | |
| FMN Spiral 5 Standards Profile | FMN5-20221202 |

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