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NATO LETTER OF PROMULGATION

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

Zoltán GULYÁS
Brigadier General, HUNAF
Director, NATO Standardization Office

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RESERVED FOR NATIONAL LETTER OF PROMULGATION

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RECORD OF SPECIFIC RESERVATIONS

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

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CHAPTER 1. STANDARDS

1.1. INTRODUCTION

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

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

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

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

1.1.1. Releasability Statement

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

1.2. USER APPLICATIONS

| Title | Pubnum | Profiles | Responsible Party |
|-------|--------|----------|-------------------|
| | | | |

1.3. TECHNICAL SERVICES

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

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

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

1.3.1. Community Of Interest (COI) Services

| Title | Pubnum | Profiles | Responsible Party |
|--|---|------------------|----------------------------|
| Recognized Air Picture Services | | | |
| Tactical Data Exchange - Link 16 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Standard for Joint Range Extension Application Protocol (JREAP) | NATO ATDLP-5.18 Ed A Ver 1:2015 / STANAG (RD) 5518 Ed 2 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Recognized Maritime Picture Services | | | |
| NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT) | NATO TIDE/ NVG:2008 | FMN4-PROPOSED-PR | NCIA/C2 |
| Operational Specification for OVER-THE-HORIZON TARGETING GOLD (Revision C) (OTH-G) | US DoD OTH-G Rev. C:1997 | FMN4-PROPOSED-PR | FMN CPWG |
| Over-The-Horizon Targeting Gold baseline 2007 | US DoD OTH-T Gold Baseline 2007:2007 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| ISR Collection Services | | | |
| NATO Standard ISR Workflow Architecture | NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Information Requirements Management Services | | | |
| NATO Standard ISR Workflow Architecture | NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Collection Management Services | | | |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|------------------|----------------------------|
| NATO Standard ISR Workflow Architecture | NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Situational Awareness Services | | | |
| Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security | NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model | NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism | NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Tactical Data Exchange - Link 16 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Standard for Joint Range Extension Application Protocol (JREAP) | NATO ATDLP-5.18 Ed A Ver 1:2015 / STANAG (RD) 5518 Ed 2 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Symbology Services | | | |
| NATO Vector Graphics Specification 2.0.2 | NATO ADatP-4733 Ed A Ver 1:2017 / STANAG (Study) 4733 Ed 1 | BSP | C3B CaP1 |
| NATO Joint Military Symbology | NATO APP-06 Ed D Ver 1:2017 / STANAG 2019 Ed 7 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|----------------------|------------------------------------|
| NATO Vector Graphics (NVG) Protocol version 1.5:2010 (ACT) | NATO TIDE/ NVG:2008 | FMN4- PROPOSED-PR | NCIA/C2 |
| NATO Transformational Baseline 3.0:2009 (ACT) | NATO TIDE/ TTB:2009 | BSP | NCIA/CES |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2) | OGC 05-047r3:2006 | BSP | FMN CPWG |
| Battlespace Event Services | | | |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4- PROPOSED-PR | MC, MCJSB, IERHWG |
| Battlespace Object Services | | | |
| MIP 4.2 Information Exchange Specification | MIP MIP Ver 4.2:2018 | FMN4- PROPOSED-PR | FMN CPWG |
| Web Service Messaging Profile (WSMP) | NATO ADatP-5644 (Study) Ed A Ver 1 / STANAG 5644 Ed 1 | FMN4- PROPOSED-PR | C3B CaP1 DM CaT |
| Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security | NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4- PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model | NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4- PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism | NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4- PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4- PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Track Management Services | | | |
| NATO Friendly Force Information (FFI) Standard for Interoperability of Friendly Force Tracking Systems (FFTS) | NATO ADatP-36 Ed A Ver 1:2017 / STANAG 5527 Ed 1 | FMN4- PROPOSED-PR | C3B CaP2 FFT CaT |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|-----------------------|--------------------------|
| Services to forward Friendly Force Information to Weapon Delivery Assets | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1 | FMN4-PROPOSED-PR | C3B CaP2 |
| Technical Characteristics of Reverse IFF using Mode 5 Waveform | NATO Study (expected) AEtP-4722 Ed. A Ver. 1 / STANAG 4722 Ed 1 | BSP | C3B CaP2 |
| Identification Data Combining Process | NATO Study (expected) AIDPP-01 Ed. A version 1 / STANAG 4162 Ed 3 | BSP | C3B CaP2 |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |
| Tactical Data Exchange - Link 11/11B | NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG FT 5511 Ed 10 | BSP | C3B CaP1 TDL CaT |
| Tactical Data Exchange - Link 16 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | BSP, FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Standard for Joint Range Extension Application Protocol (JREAP) | NATO ATDLP-5.18 Ed A Ver 1:2015 / STANAG (RD) 5518 Ed 2 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B ¹ | NATO Study (expected) STANAG 5522 Ed 6 / ATDLP-5.22(B) | BSP | C3B CaP1 TDL CaT |
| Track Distribution Services | | | |
| NATO Friendly Force Information (FFI) Standard for Interoperability of Friendly Force Tracking Systems (FFTS) | NATO ADatP-36 Ed A Ver 1:2017 / STANAG 5527 Ed 1 | FMN4-PROPOSED-PR | C3B CaP2 FFT CaT |
| Services to forward Friendly Force Information to Weapon Delivery Assets | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1 | FMN4-PROPOSED-PR | C3B CaP2 |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|------------------|---------------------------|
| Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security | NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model | NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism | NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |
| Tactical Data Exchange - Link 16 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Standard for Joint Range Extension Application Protocol (JREAP) | NATO STANAG 5518 Ed 1:2014 | FMN4-PROPOSED-PR | C3B CaP1 TDL CaT |
| Modeling and Simulation Services | | | |

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

1.3.2. Core Services

| Title | Pubnum | Profiles | Responsible Party |
|--|------------------------------|----------|-------------------|
| Business Support CIS Security Services | | | |
| Common Biometric Exchange Formats Framework (CBEFF) | ANSI incits-398:2008 | BSP | NCIA/JISR |
| Electronic Biometric Transmission Specification (EBTS) | FBI IAFIS-DOC-01078-8.1:2008 | BSP | CNAD, AC/224 |

| Title | Pubnum | Profiles | Responsible Party |
|--|----------------------------|------------------|-------------------|
| | | | NAFAG, JCGISR |
| Business Support SMC Services | | | |
| Trouble Ticket REST API Specification R14.5.1 Interface | TM-FORUM TMF621:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| API REST Conformance Guidelines R15.5.1 Standard | TM-FORUM TR250:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Communication and Collaboration Services | | | |
| HyperText Markup Language (HTML), Version 5.0, Reference Specification | W3C WD-html5-20121025:2012 | BSP | NCIA/CES |
| Informal Messaging Services | | | |
| SMTP Service Extension for Message Size Declaration | IETF RFC 1870:1995 | FMN4-PROPOSED-PR | FMN CPWG |
| The text/enriched MIME Content-type | IETF RFC 1896:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| SMTP Service Extension for Returning Enhanced Error Codes | IETF RFC 2034:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| MIME - Part 1: Format of Internet Message Bodies | IETF RFC 2045:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| MIME - Part 2: Media Types | IETF RFC 2046:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| MIME - Part 3: Message Header Extensions for Non-ASCII Text | IETF RFC 2047:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| MIME - Part 5: Conformance Criteria and Examples | IETF RFC 2049:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| SMTP Service Extension for Command Pipelining | IETF RFC 2920:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| SMTP Service Extension for Secure SMTP over TLS | IETF RFC 3207:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| SMTP Service Extension for Delivery Status Notifications | IETF RFC 3461:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| UTF-8, a transformation format of ISO/IEC 10646 | IETF RFC 3629:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| The Text/Plain Format and DelSp Parameters | IETF RFC 3676:2004 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|------------------|--------------------------|
| SMTP Service Extension for Authentication | IETF RFC 4954:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| URI Fragment Identifiers for the text/plain Media Type | IETF RFC 5147:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Simple Mail Transfer Protocol | IETF RFC 5321:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Internet Message Format | IETF RFC 5322:2008 | FMN4-PROPOSED-PR | NCIA |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar) | IETF RFC 5545:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| SMTP Service Extension for 8-bit MIME Transport | IETF RFC 6152:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1) | ISO 19005-1:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2) | ISO 19005-2:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Document management -- Portable document format -- Part 1: PDF 1.7 | ISO 32000-1:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines | ISO/IEC 10918-1:1994 | FMN4-PROPOSED-PR | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Extensions | ISO/IEC 10918-3:1997 | FMN4-PROPOSED-PR | FMN CPWG |
| Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference | ISO/IEC 29500-1:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Core Metadata Specification | NATO ADatP-39 (Study) Ed. A Ver. 1 / STANAG 5636 (Study) Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|----------------------|-------------------------------------|
| Metadata Binding | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN4- PROPOSED-PR | C3B CaP1 DM CaT |
| NATO Secondary Imagery Format (NSIF) STANAG 4545 Implementation Guide | NATO AEDP-04 Ed 2 Ver 1:2013 / STANAG 4545 Ed 2 | FMN4- PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Ground Moving Target Indicator(GMTI) Format | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN4- PROPOSED-PR | FMN CPWG |
| NATO Motion Imagery STANAG 4609 Implementation Guide | NATO AEDP-08 Ed 3 Ver 1:2009 | FMN4- PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Intelligence, Surveillance And Reconnaissance Tracking Standard | NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1 | FMN4- PROPOSED-PR | FMN CPWG |
| NATO standardization of measurement and signature intelligence (MASINT) Reporting | NATO AEDP-16 / STANAG (Study) 4716 Ed 1 | FMN4- PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Allied Joint Medical Doctrine For Medical Evacuation | NATO AJMedP-2 Ed A Ver 1:2018 / STANAG 2546 Ed 2 | FMN4- PROPOSED-PR | COMEDS, MCMedSB, MedStd EM |
| Captured Persons, Materiel And Documents | NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2 | FMN4- PROPOSED-PR | MC, MCJSB, JINT |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4- PROPOSED-PR | MC, MCJSB, IERHWG |
| NATO Land Urgent Voice Messages (LUVM) Pocket Book | NATO ATP-97 Ed A Ver 1:2016 / STANAG 2627 Ed 1 | FMN4- PROPOSED-PR | MC, MCLSB, LO |
| Air Reconnaissance Intelligence Report Forms | NATO STANAG 3377 Ed 6:2002 | FMN4- PROPOSED-PR | FMN CPWG |
| Profiles for Binding Metadata to a Data Object | NCIA TN-1491 Edition 2:2017 | FMN4- PROPOSED-PR | NCIA/CES |

| Title | Pubnum | Profiles | Responsible Party |
|---|--------------------------------------|------------------|--------------------------|
| XHTML™ 1.0 in XML Schema | W3C NOTE-xhtml1-schema-20020902:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Hypertext Markup Language revision 5 (HTML5) | W3C REC-html5-20141028:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Fax Services | | | |
| Procedures for real-time Group 3 facsimile communication over IP networks | ITU-T T.38:2010 | BSP | NCIA/NSII |
| Calendaring and Scheduling Services | | | |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar) | IETF RFC 5545:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| iCalendar Transport-Independent Interoperability Protocol (iTIP) | IETF RFC 5546:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| iCalendar Message-Based Interoperability Protocol (iMIP) | IETF RFC 6047:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Video-based Communication Services | | | |
| Session Initiation Protocol | IETF RFC 3261:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Reliability of Provisional Responses in the Session Initiation Protocol (SIP) | IETF RFC 3262:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| An Offer/Answer Model with the Session Description Protocol (SDP) | IETF RFC 3264:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| The Session Initiation Protocol (SIP) UPDATE Method | IETF RFC 3311:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Session Timers in the Session Initiation Protocol (SIP) | IETF RFC 4028:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| A Framework for Conferencing with the Session Initiation Protocol (SIP) | IETF RFC 4353:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events | IETF RFC 4411:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Communications Resource Priority for the Session Initiation Protocol (SIP) | IETF RFC 4412:2006 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|---|------------------|--------------------------|
| SDP: Session Description Protocol | IETF RFC 4566:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Session Initiation Protocol (SIP) Call Control - Conferencing for User Agents | IETF RFC 4579:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Conference Establishment Using Request-Contained Lists in the Session Initiation Protocol (SIP) | IETF RFC 5366:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| RTP Payload Format for H.264 Video | IETF RFC 6184:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| SIP-Specific Event Notification | IETF RFC 6665:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| RTP Topologies | IETF RFC 7667:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| Notation for national and international telephone numbers, e-mail addresses and web addresses | ITU-T E.123:2001 | FMN4-PROPOSED-PR | FMN CPWG |
| The international public telecommunication numbering plan | ITU-T E.164:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Pulse code modulation (PCM) of voice frequencies | ITU-T G.711:1988 | FMN4-PROPOSED-PR | FMN CPWG |
| Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss | ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Advanced video coding for generic audiovisual services | ITU-T H.264:2017 | FMN4-PROPOSED-PR | FMN CPWG |
| International Network Numbering for Communications Systems in use in NATO | NATO STANAG 4705 Ed 1:2015 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Audio-based Communication Services | | | |
| RTP: A Transport Protocol for Real-Time Applications | IETF RFC 3550:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| Extending the Session Initiation Protocol (SIP) Reason Header for Preemption Events | IETF RFC 4411:2006 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|------------------|--------------------------|
| Communications Resource Priority for the Session Initiation Protocol (SIP) | IETF RFC 4412:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals | IETF RFC 4733:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| SCIP Signalling Plan rev.3.3 | CIS3 C&IP SCIP-210:2010 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| SCIP over RTP rev.1.0 | CIS3 C&IP SCIP-214.2:2010 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Securing SIP Signaling - Use of TLS with SCIP | CIS3 C&IP SCIP-214.3:2014 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Interoperable Terminal Priority (TP) Community of Interest (COI) Specification rev.1.0 | CIS3 C&IP SCIP-233.350:2012 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Secure MELP(e) Voice rev.1.1 | CIS3 C&IP SCIP-233.501:2012 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Secure G.729D Voice Specification Rev. 1.1. | CIS3 C&IP SCIP-233.502:2011 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Notation for national and international telephone numbers, e-mail addresses and web addresses | ITU-T E.123:2001 | FMN4-PROPOSED-PR | FMN CPWG |
| The international public telecommunication numbering plan | ITU-T E.164:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Pulse code modulation (PCM) of voice frequencies | ITU-T G.711:1988 | FMN4-PROPOSED-PR | FMN CPWG |
| Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss | ITU-T G.722.1 (2005) Corrigendum 1 (06/08):2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP) | ITU-T G.729:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| Advanced video coding for generic audiovisual services | ITU-T H.264:2017 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Secondary Imagery Format (NSIF) STANAG 4545 Implementation Guide | NATO AEDP-04 Ed 2 Ver 1:2013 / STANAG 4545 Ed 2 | FMN4-PROPOSED-PR | CNAD, AC/224 |

| Title | Pubnum | Profiles | Responsible Party |
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| NATO Ground Moving Target Indicator(GMTI) Format | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Motion Imagery STANAG 4609 Implementation Guide | NATO AEDP-08 Ed 3 Ver 1:2009 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Intelligence, Surveillance And Reconnaissance Tracking Standard | NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO standardization of measurement and signature intelligence (MASINT) Reporting | NATO AEDP-16 / STANAG (Study) 4716 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Allied Joint Medical Doctrine For Medical Evacuation | NATO AJMedP-2 Ed A Ver 1:2018 / STANAG 2546 Ed 2 | FMN4-PROPOSED-PR | COMEDS, MCMedSB, MedStd EM |
| Captured Persons, Materiel And Documents | NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2 | FMN4-PROPOSED-PR | MC, MCJSB, JINT |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |
| NATO Land Urgent Voice Messages (LUVM) Pocket Book | NATO ATP-97 Ed A Ver 1:2016 / STANAG 2627 Ed 1 | FMN4-PROPOSED-PR | MC, MCLSB, LO |
| Air Reconnaissance Intelligence Report Forms | NATO STANAG 3377 Ed 6:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| International Network Numbering for Communications Systems in use in NATO | NATO STANAG 4705 Ed 1:2015 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Text-based Communication Services | | | |
| UTF-8, a transformation format of ISO/IEC 10646 | IETF RFC 3629:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| Extensible Messaging and Presence Protocol (XMPP): Core | IETF RFC 6120:2011 | FMN4-PROPOSED-PR | NCIA |

| Title | Pubnum | Profiles | Responsible Party |
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| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence | IETF RFC 6121:2011 | FMN4-PROPOSED-PR | NCIA |
| Extensible Messaging and Presence Protocol (XMPP): Address Format | IETF RFC 6122:2011 | FMN4-PROPOSED-PR | NCIA |
| NATO Core Metadata Specification | NATO ADatP-39 (Study) Ed. A Ver. 1 / STANAG 5636 (Study) Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| Metadata Binding | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| NATO Secondary Imagery Format (NSIF) STANAG 4545 Implementation Guide | NATO AEDP-04 Ed 2 Ver 1:2013 / STANAG 4545 Ed 2 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Ground Moving Target Indicator(GMTI) Format | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Motion Imagery STANAG 4609 Implementation Guide | NATO AEDP-08 Ed 3 Ver 1:2009 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Intelligence, Surveillance And Reconnaissance Tracking Standard | NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO standardization of measurement and signature intelligence (MASINT) Reporting | NATO AEDP-16 / STANAG (Study) 4716 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Allied Joint Medical Doctrine For Medical Evacuation | NATO AJMedP-2 Ed A Ver 1:2018 / STANAG 2546 Ed 2 | FMN4-PROPOSED-PR | COMEDS, MCMedSB, MedStd EM |

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| Captured Persons, Materiel And Documents | NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2 | FMN4-PROPOSED-PR | MC, MCJSB, JINT |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |
| NATO Land Urgent Voice Messages (LUVN) Pocket Book | NATO ATP-97 Ed A Ver 1:2016 / STANAG 2627 Ed 1 | FMN4-PROPOSED-PR | MC, MCLSB, LO |
| Air Reconnaissance Intelligence Report Forms | NATO STANAG 3377 Ed 6:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Profiles for Binding Metadata to a Data Object | NCIA TN-1491 Edition 2:2017 | FMN4-PROPOSED-PR | NCIA/CES |
| XEP-0004: Data Forms | XMPP XEP-0004:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0012: Last Activity | XMPP XEP-0012:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0030: Service Discovery | XMPP XEP-0030:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0045: Multi-User Chat | XMPP XEP-0045:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0047: In-Band Bytestreams | XMPP XEP-0047:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0049: Private XML Storage | XMPP XEP-0049:2004 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0049: Private XML Storage | XMPP XEP-0049:2004 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0054: vcard-temp | XMPP XEP-0054:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0055: Jabber Search | XMPP XEP-0055:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0059: Result Set Management | XMPP XEP-0059:2006 | FMN4-PROPOSED-PR | NCIA |
| XEP-0065: SOCKS5 Bytestreams | XMPP XEP-0065:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| XEP-0082: XMPP Date and Time Profiles | XMPP XEP-0082:2013 | FMN4-PROPOSED-PR | FMN CPWG |

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| XEP-0092: Software Version | XMPP XEP-0092:2007 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0114: Jabber Component Protocol | XMPP XEP-0114:2012 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0114: Jabber Component Protocol | XMPP XEP-0114:2012 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0160: Best Practices for Handling Offline Messages | XMPP XEP-0160:2016 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0198: Stream Management | XMPP XEP-0198:2011 | FMN4- PROPOSED-PR | NCIA |
| XEP-0199: XMPP Ping | XMPP XEP-0199:2009 | FMN4- PROPOSED-PR | NCIA |
| XEP-0202: Entity Time | XMPP XEP-0202:2009 | FMN4- PROPOSED-PR | NCIA |
| XEP-0203: Delayed Delivery | XMPP XEP-0203:2009 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0220: Server Dialback | XMPP XEP-0220:2013 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0258: Security Labels in XMPP | XMPP XEP-0258:2013 | FMN4- PROPOSED-PR | NCIA |
| XEP-0313: Message Archive Management | XMPP XEP-0313:2017 | FMN4- PROPOSED-PR | FMN CPWG |
| Presence Services | | | |
| Extensible Messaging and Presence Protocol (XMPP): Core | IETF RFC 6120:2011 | FMN4- PROPOSED-PR | NCIA |
| Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence | IETF RFC 6121:2011 | FMN4- PROPOSED-PR | NCIA |
| Extensible Messaging and Presence Protocol (XMPP): Address Format | IETF RFC 6122:2011 | FMN4- PROPOSED-PR | NCIA |
| XEP-0004: Data Forms | XMPP XEP-0004:2007 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0012: Last Activity | XMPP XEP-0012:2008 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0030: Service Discovery | XMPP XEP-0030:2008 | FMN4- PROPOSED-PR | FMN CPWG |

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| XEP-0045: Multi-User Chat | XMPP XEP-0045:2012 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0047: In-Band Bytestreams | XMPP XEP-0047:2012 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0049: Private XML Storage | XMPP XEP-0049:2004 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0049: Private XML Storage | XMPP XEP-0049:2004 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0054: vcard-temp | XMPP XEP-0054:2008 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0055: Jabber Search | XMPP XEP-0055:2009 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0059: Result Set Management | XMPP XEP-0059:2006 | FMN4- PROPOSED-PR | NCIA |
| XEP-0065: SOCKS5 Bytestreams | XMPP XEP-0065:2011 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0082: XMPP Date and Time Profiles | XMPP XEP-0082:2013 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0092: Software Version | XMPP XEP-0092:2007 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0114: Jabber Component Protocol | XMPP XEP-0114:2012 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0114: Jabber Component Protocol | XMPP XEP-0114:2012 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0160: Best Practices for Handling Offline Messages | XMPP XEP-0160:2016 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0198: Stream Management | XMPP XEP-0198:2011 | FMN4- PROPOSED-PR | NCIA |
| XEP-0199: XMPP Ping | XMPP XEP-0199:2009 | FMN4- PROPOSED-PR | NCIA |
| XEP-0202: Entity Time | XMPP XEP-0202:2009 | FMN4- PROPOSED-PR | NCIA |
| XEP-0203: Delayed Delivery | XMPP XEP-0203:2009 | FMN4- PROPOSED-PR | FMN CPWG |
| XEP-0220: Server Dialback | XMPP XEP-0220:2013 | FMN4- PROPOSED-PR | FMN CPWG |

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| XEP-0258: Security Labels in XMPP | XMPP XEP-0258:2013 | FMN4- PROPOSED-PR | NCIA |
| XEP-0313: Message Archive Management | XMPP XEP-0313:2017 | FMN4- PROPOSED-PR | FMN CPWG |
| Geospatial Services | | | |
| OpenGIS Web Processing Service | OGC 05-007r7:2007 | BSP | NCIA/AWG |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2) | OGC 05-047r3:2006 | FMN4- PROPOSED-PR | FMN CPWG |
| OGC KML | OGC 07-147r2:2008 | FMN4- PROPOSED-PR | FMN CPWG |
| Geographical Tagged Image Format (GeoTIFF) | OSGEO 1.8.2:2000 | FMN4- PROPOSED-PR | FMN CPWG |
| Geospatial Web Map Services | | | |
| Geographic information - Web map server interface | ISO 19128:2005 | FMN4- PROPOSED-PR | FMN CPWG |
| Open GIS Web Map Service Implementation Specification | OGC 06-042:2006 | FMN4- PROPOSED-PR | FMN CPWG |
| Geospatial Web Feature Services | | | |
| Geographic information - Web Feature Service | ISO 19142:2010 | FMN4- PROPOSED-PR | FMN CPWG |
| OpenGIS Web Feature Service 2.0 Interface Standard | OGC 09-025r2:2006 | FMN4- PROPOSED-PR | FMN CPWG |
| Geospatial Web Coverage Services | | | |
| Web Coverage Service Implementation Standard v1.1.2 | OGC 07-067r5:2007 | BSP | NCIA/AWG |
| Geospatial Coordinate Services | | | |
| OpenGIS Coordinate Transformation Services | OGC 01-009:2001 | BSP | NCIA/AWG |
| Information Management Services | | | |
| Application Vulnerability Description Language (AVDL) version 1.0 | OASIS AVDL Specification - 01:2004 | BSP | NCIA/CS |
| Content Management Services | | | |
| UTF-8, a transformation format of ISO/IEC 10646 | IETF RFC 3629:2003 | FMN4- PROPOSED-PR | FMN CPWG |

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| Formal Messaging Services | | | |
| Registration of Military Message Handling System (MMHS) Header Fields for Use in Internet Mail | IETF RFC 6477:2012 | BSP | NCIA/CES |
| 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 |
| Tactical Data Exchange - Link 16 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | BSP | C3B CaP1 TDL CaT |
| Joint Range Extension Application Protocol (JREAP) ¹ | NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4 | BSP | C3B CaP1 TDL CaT |
| Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B ¹ | NATO Study (expected) STANAG 5522 Ed 6 / ATDLP-5.22(B) | BSP | C3B CaP1 TDL CaT |
| SOAP Messages with Attachments (SwA) Profile 1.1 | OASIS wss-v1.1-spec-os-SwAProfile:2006 | BSP | NCIA/CES |
| Variable Message Format (VMF) ² | US DoD MIL-STD-6017D:2017 | BSP | C3B CaP1 |
| Workflow Services | | | |
| NATO Standard ISR Workflow Architecture | NATO AEDP-19 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Search Services | | | |
| Atom Syndication Format, v1.0 | IETF RFC 4287:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| XML Media Types | IETF RFC 7303:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| OpenSearch 1.1 Draft 6 | Opensearch opensearch11d6:2005 | FMN4-PROPOSED-PR | FMN CPWG |

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| RSS 2.0 Specification | RSS 2.0:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| eXtensible Markup Language (XML) version 1.0 (Fifth Edition) | W3C REC-xml-20081126:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Reporting Services | | | |
| Representation of Names of Languages Part 2: Alpha-3 | ISO 639-2:1998 | FMN4-PROPOSED-PR | NCIA/Sstrat/Sea |
| Information technology -- Metadata registries (MDR) -- Part 3: Registry metamodel and basic attributes | ISO/IEC 11179-3:2013 | FMN4-PROPOSED-PR | FMN CPWG |
| Image Processing and Interchange (IPI) - Functional Specification - Part 5: Basic Image Interchange Format (BIIF) | ISO/IEC 12087-5:1998 | FMN4-PROPOSED-PR | FMN CPWG |
| Technical Corrigendum 1 to International Standard ISO/IEC 12087-5:1998 | ISO/IEC 12087-5-cor1:2001 | FMN4-PROPOSED-PR | FMN CPWG |
| Technical Corrigendum 2 to International Standard ISO/IEC 12087-5:1998 | ISO/IEC 12087-5-cor2:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Information technology -- Open Distributed Processing -- Interface Definition Language | ISO/IEC 14750:1999 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Secondary Imagery Format (NSIF) STANAG 4545 Implementation Guide | NATO AEDP-04 Ed 2 Ver 1:2013 / STANAG 4545 Ed 2 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Ground Moving Target Indicator(GMTI) Format | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Motion Imagery STANAG 4609 Implementation Guide | NATO AEDP-08 Ed 3 Ver 1:2009 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Intelligence, Surveillance And Reconnaissance Tracking Standard | NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1 | FMN4-PROPOSED-PR | FMN CPWG |

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| NATO standardization of measurement and signature intelligence (MASINT) Reporting | NATO AEDP-16 / STANAG (Study) 4716 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Standard ISR Library Interface | NATO AEDP-17 Ed A Ver 1:2018 / STANAG 4559 Ed 4 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |
| US Motion Imagery Standards Board (MISB) - Motion Imaginary Standards Profile-2015.1 | NATO NNSTD MISP-2015.1:2016 / STANAG 4609 Ed 4 | FMN4-PROPOSED-PR | FMN CPWG |
| Air Reconnaissance Intelligence Report Forms | NATO STANAG 3377 Ed 6:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Joint C3 Information Exchange Data Model (JC3IEDM) | NATO STANAG 5525 Ed 1:2007 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| Platform Services | | | |
| 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 |

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| Security Token Services | | | |
| RADIUS and IPv6 | IETF RFC 3162:2001 | BSP | NCIA/NSII |
| Single Sign On | Open Group P702:1997 | BSP | C3B CaP4 |
| Policy Decision Point Services | | | |
| Data Format for the Interchange of Fingerprint Facial, and Scar Mark and Tattoo (SMT) Information | ANSI/NIST ITL 1-2000:2000 | BSP | NCIA/JISR |
| Biometric data interchange formats -- Part 2: | ISO/IEC 19794-2:2007 | BSP | NCIA/JISR |
| Biometric data interchange formats -- Part 5: Face image data | ISO/IEC 19794-5:2007 | BSP | NCIA/JISR |
| Biometric data interchange formats -- Part 6: Iris image data | ISO/IEC 19794-6:2007 | BSP | NCIA/JISR |
| NATO Public Key Infrastructure (NPKI) Certificate Policy (CertP) Rev2. | NATO AC/322- D(2004)0024REV2:2008 | BSP | C3B NPMA |
| eXtensible Access Control Markup Language core specification | OASIS xacml-3.0- core-spec-os:2013 | BSP | NCIA/CS |
| DOD EBTS | US DoD DIN: DOD_BTFS_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 |
| Platform SMC Services | | | |
| Common Information Model (CIM) v2.2 | DMTF DSP0004:1999 | BSP | C3B CaP1 SMC CaT |
| Web Services for Management (WS-Management) Specification | DMTF DSP0226:2010 | BSP | C3B CaP1 SMC CaT |
| WS-Management CIM Binding Specification | DMTF DSP0227:2010 | BSP | C3B CaP1 SMC CaT |
| Remote Network Monitoring Management Information Base, RMON-MIB version 2 using SMIV2 | IETF RFC 2021:1997 | BSP | NCIA/SMC |

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| IP Version 6 Management Information Base for the Transmission Control Protocol | IETF RFC 2452:1998 | BSP | NCIA/NSII |
| IP Version 6 Management Information Base for the User Datagram Protocol | IETF RFC 2454:1998 | BSP | NCIA/NSII |
| IPv6 MIB | IETF RFC 2465:1998 | BSP | NCIA/SMC |
| ICMPv6 MIB | IETF RFC 2466:1998 | BSP | NCIA/SMC |
| Multicast Group Membership Discovery MIB | IETF RFC 5519:2009 | BSP | NCIA/NSII |
| Enhanced Telecom Operations Map | TM-FORUM eTOM Rel.13:2012 | BSP | NCIA/SMC |
| Service Discovery Services | | | |
| 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 |
| Message-Oriented Middleware Services | | | |
| Web Service Messaging Profile (WSMP) | NATO ADatP-5644 (Study) Ed A Ver 1 / STANAG 5644 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| SOAP Version 1.2 | W3C SOAP Version 1.2:2001 | BSP | NCIA/CES |
| Direct Messaging Services | | | |
| Specifications Defining The Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Security | NATO AEP-76 Vol1 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |

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| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Data Model | NATO AEP-76 Vol2 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Information Exchange Mechanism | NATO AEP-76 Vol4 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| Web Platform Services | | | |
| Content-ID and Message-ID Uniform Resource Locators | IETF RFC 2392:1998 | BSP | NCIA/CES |
| XML Linking Language (XLink) Version 1.1 | W3C REC-xlink11-20100506:2010 | BSP | NCIA/CES |
| Extensible Markup Language (XML) version 1.1 (Second Edition) | W3C REC-xml11-20060816:2006 | BSP | NCIA/CES |
| Web Hosting Services | | | |
| Uniform Resource Locators (URL) | IETF RFC 1738:1994 | FMN4-PROPOSED-PR | FMN CPWG |
| Upgrading to TLS Within HTTP/1.1 | IETF RFC 2817:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| The 'text/html' Media Type | IETF RFC 2854:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| UTF-8, a transformation format of ISO/IEC 10646 | IETF RFC 3629:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| Uniform Resource Identifiers (URI): Generic Syntax | IETF RFC 3986:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| Atom Syndication Format, v1.0 | IETF RFC 4287:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| Scripting Media Types | IETF RFC 4329:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| The application/json Media Type for JavaScript Object Notation (JSON) | IETF RFC 4627:2006 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|----------------------------------|------------------|--------------------------|
| Atom Publishing Protocol | IETF RFC 5023:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| Internet Calendaring and Scheduling Core Object Specification (iCalendar) | IETF RFC 5545:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing | IETF RFC 7230:2014 | FMN4-PROPOSED-PR | NCIA/CES |
| Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content | IETF RFC 7231:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests | IETF RFC 7232:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Range Requests | IETF RFC 7233:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Caching | IETF RFC 7234:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Hypertext Transfer Protocol (HTTP/1.1): Authentication | IETF RFC 7235:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1) | ISO 19005-1:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| Electronic document file format for long-term preservation -- Part 2: Use of ISO 32000-1 (PDF/A-2) | ISO 19005-2:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Document management -- Portable document format -- Part 1: PDF 1.7 | ISO 32000-1:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Requirements and guidelines | ISO/IEC 10918-1:1994 | FMN4-PROPOSED-PR | FMN CPWG |
| Digital compression and coding of continuous-tone still images: Extensions | ISO/IEC 10918-3:1997 | FMN4-PROPOSED-PR | FMN CPWG |
| Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference | ISO/IEC 29500-1:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Core Metadata Specification | NATO ADatP-39 (Study) Ed. A Ver. | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|------------------|----------------------------|
| | 1 / STANAG 5636 (Study) Ed 1 | | |
| Confidentiality Metadata Label Syntax | NATO ADatP-4774 Ed A Ver 1:2017 / STANAG 4774 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| Metadata Binding | NATO ADatP-4778 Ed A Ver 1:2018 / STANAG 4778 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 DM CaT |
| NATO Secondary Imagery Format (NSIF) STANAG 4545 Implementation Guide | NATO AEDP-04 Ed 2 Ver 1:2013 / STANAG 4545 Ed 2 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Ground Moving Target Indicator(GMTI) Format | NATO AEDP-07 Ed 2 Ver 1:2010 / STANAG 4607 Ed 3 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO Motion Imagery STANAG 4609 Implementation Guide | NATO AEDP-08 Ed 3 Ver 1:2009 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| NATO Intelligence, Surveillance And Reconnaissance Tracking Standard | NATO AEDP-12 Ed A Ver 1:2014 / STANAG 4676 Ed 1 | FMN4-PROPOSED-PR | FMN CPWG |
| NATO standardization of measurement and signature intelligence (MASINT) Reporting | NATO AEDP-16 / STANAG (Study) 4716 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/224 NAFAG, JCGISR |
| Captured Persons, Materiel And Documents | NATO AJP-2.5 Ed A:2007 / STANAG 2195 Ed 2 | FMN4-PROPOSED-PR | MC, MCJSB, JINT |
| NATO Message Catalogue | NATO Study (expected) APP-11 Ed E Ver 1 | FMN4-PROPOSED-PR | MC, MCJSB, IERHWG |
| Air Reconnaissance Intelligence Report Forms | NATO STANAG 3377 Ed 6:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Profiles for Binding Metadata to a Data Object | NCIA TN-1491 Edition 2:2017 | FMN4-PROPOSED-PR | NCIA/CES |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|------------------|--------------------------|
| GML application schema for the Simple and GML serializations of GeoRSS | OGC 1.1:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| RSS 2.0 Specification | RSS 2.0:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| Trouble Ticket REST API Specification R14.5.1 Interface | TM-FORUM TMF621:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| Product Ordering API REST Specification R14.5.1 Interface | TM-FORUM TMF622:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| API REST Conformance Guidelines R15.5.1 Standard | TM-FORUM TR250:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Web Services Addressing 1.0 - Core | W3C REC-ws-addr-core-20060509:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Cross-Origin Resource Sharing | W3C CR-cors-20130129:2013 | FMN4-PROPOSED-PR | FMN CPWG |
| Simple Object Access Protocol (SOAP) | W3C NOTE-SOAP-20000508:2000 | FMN4-PROPOSED-PR | NCIA |
| Web Service Description Language (WSDL) 1.1 | W3C NOTE-wsdl-20010315:2001 | FMN4-PROPOSED-PR | FMN CPWG |
| Web Services Description Language (WSDL) Version 2.0 SOAP 1.1 Binding | W3C NOTE-wsdl20-soap11-binding-20070626:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| XHTML™ 1.0 in XML Schema | W3C NOTE-xhtml1-schema-20020902:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| CSS Namespaces Module Level 3 | W3C REC-css-namespaces-3-20140320:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| CSS Style Attributes | W3C REC-css-style-attr-20131107:2013 | FMN4-PROPOSED-PR | FMN CPWG |
| Cascading Style Sheets, level 2 revision 1 | W3C REC-CSS2-2011067:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| CSS Color Module Level 3 | W3C REC-css3-color-20110607:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Media Queries | W3C REC-css3-mediaqueries-20120619:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| Selectors Level 3 | W3C REC-css3-selectors-20110929:2011 | FMN4-PROPOSED-PR | FMN CPWG |

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| Hypertext Markup Language revision 5 (HTML5) | W3C REC-html5-20141028:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| eXtensible Markup Language (XML) version 1.0 (Fifth Edition) | W3C REC-xml-20081126:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| XML Schema Part 1: Structures Second Edition | W3C REC-xmlschema-1-20041028:2004 | FMN4-PROPOSED-PR | FMN CPWG |
| XML Schema Part 2: Datatypes Second Edition | W3C REC-xmlschema-2-20041028:2004 | FMN4-PROPOSED-PR | FMN CPWG |
| Web Presentation Services | | | |
| Web Services for Remote Portlets Specification | OASIS wsrp-specification-2.0:2008 | BSP | NCIA/CES |
| Information Discovery Services | | | |
| OpenSearch 1.1 Draft 6 | Opensearch opensearch11d6:2005 | BSP | FMN CPWG |
| Information Access Services | | | |
| MIME Encapsulation of Aggregate Documents, such as HTML (MHTML) | IETF RFC 2557:2006 | BSP | NCIA/CES |
| A Standards Based Approach for Geo-enabling RSS feeds, v1.0 | OGC 06-050r3:2006 | BSP | NCIA/AWG |
| XForms 1.0 | W3C REC-xforms-20031014:2003 | BSP | NCIA/CES |
| Metadata Repository Services | | | |
| Web Services Metadata Exchange (WS-MetadataExchange) | W3C REC-ws-metadata-exchange-20111213:2011 | BSP | NCIA/CES |
| Directory Services | | | |
| Common Directory Services and Procedures | CCEB ACP 133(D):2009 | BSP | C3B NACP CaT |
| Definition of the inetOrgPerson LDAP Object Class | IETF RFC 2798:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP Data Interchange Format (LDIF) | IETF RFC 2849:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Technical Specification Road Map | IETF RFC 4510:2006 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|------------------|--------------------------|
| LDAP: The Protocol | IETF RFC 4511:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Directory Information Models | IETF RFC 4512:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Authentication Methods and Security Mechanisms | IETF RFC 4513:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: String Representation of Distinguished Names | IETF RFC 4514:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: String Representation of Search Filters | IETF RFC 4515:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Uniform Resource Locator | IETF RFC 4516:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Syntaxes and Matching Rules | IETF RFC 4517:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Internationalized String Preparation | IETF RFC 4518:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Schema for User Applications | IETF RFC 4519:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Choreography Services | | | |
| W3C Web Service Choreography Interface version 1.0 | W3C NOTE-wsci-20020808:2002 | BSP | NCIA/CES |
| Mediation Services | | | |
| Services to forward Friendly Force Information to Weapon Delivery Assets | NATO ADatP-37 Ed A Ver 1:2018 / STANAG 5528 Ed 1 | BSP | C3B CaP2 |
| Data Format Transformation Services | | | |
| XML Query Language (XQuery) | W3C WD-xquery-20030502:2003 | BSP | NCIA/CES |
| Infrastructure Services | | | |
| 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 |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|------------------|-----------------------|
| 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 |
| Authentication Services | | | |
| A summary of the X.500(96) User Schema for Use with LDAPv3 | IETF RFC 2256:1997 | FMN4-PROPOSED-PR | FMN CPWG |
| Definition of the inetOrgPerson LDAP Object Class | IETF RFC 2798:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| Uniform Resource Identifiers (URI): Generic Syntax | IETF RFC 3986:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| LDAP: Schema for User Applications | IETF RFC 4519:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Internet Message Format | IETF RFC 5322:2008 | FMN4-PROPOSED-PR | NCIA |
| OASIS Security Services (SAML) | OASIS saml:2009 | FMN4-PROPOSED-PR | NCIA |
| Digital Certificate Services | | | |
| More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE) | IETF RFC 3526:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| Internet X.509 Public Key Infrastructure Certificate and CRL Profile | IETF RFC 5280:2008 | FMN4-PROPOSED-PR | FMN CPWG |
| Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks | ITU-T X.509:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Secure Hash Standard (SHS) | NIST FIPS PUB 180-4:2015 | FMN4-PROPOSED-PR | C3B CaP4 |
| Digital Signature Standard (DSS) | NIST FIPS PUB 186-4:2013 | FMN4-PROPOSED-PR | FMN CPWG |
| Advanced Encryption Standard (AES) | NIST FIPS PUB 197:2001 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|----------------------------------|------------------|-------------------|
| Recommendation for Pair-Wise Key-Establishment Schemes Using Discrete Logarithm Cryptography | NIST SP 800-56A Rev 3:2018 | FMN4-PROPOSED-PR | FMN CPWG |
| Recommendation for Pair-Wise KeyEstablishment Schemes Using Integer Factorization Cryptography | NIST SP 800-56B Rev 1:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Virtualized Processing Services | | | |
| Open Virtualization Format Specification, v.1.1 | DMTF DSP0243 1.1:2013 | FMN4-PROPOSED-PR | C3B CaP1 |
| Infrastructure Networking Services | | | |
| Default Address Selection for Internet Protocol version 6 (IPv6) | IETF RFC 6724:2012 | BSP | NCIA |
| Very high speed digital subscriber line transceivers 2 (VDSL2) | ITU-T G. 993-2:2011 | BSP | NCIA/NSII |
| Server Message Block (SMB) | Microsoft MS-SMB - 20130118:2013 | BSP | NCIA/CES |
| X/Open Network File System (C702 Protocols for Inter-working: XNFS, Version 3W) | Open Group C702:1998 | BSP | NCIA/CES |
| DCE 1.1: Remote Procedure Call | Open Group C706:1997 | BSP | NCIA/CES |
| Host Configuration Services | | | |
| 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 |
| Data Transfer Services | | | |
| FTP Extensions for IPv6 and NATs | IETF RFC 2428:1998 | BSP | NCIA/NSII |
| Domain Name Services | | | |
| Domain names - concepts and facilities | IETF RFC 1034:1987 | FMN4-PROPOSED-PR | FMN CPWG |
| Domain names - implementation and specification | IETF RFC 1035:1987 | FMN4-PROPOSED-PR | FMN CPWG |
| Clarifications to the DNS Specification | IETF RFC 2181:1997 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|----------------------|------------------|--------------------------|
| A DNS RR for specifying the location of services (DNS SRV) | IETF RFC 2782:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| Distributing Authoritative Name Servers via Shared Unicast Addresses | IETF RFC 3258:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6) | IETF RFC 3646:2003 | BSP | NCIA/NSII |
| Network Information Service (NIS) Configuration Options for DHCPv6 | IETF RFC 3898:2004 | BSP | NCIA/NSII |
| A Method for Storing IPsec Keying Material in DNS | IETF RFC 4025:2005 | BSP | NCIA/CS |
| Operation of Anycast Services | IETF RFC 4786:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| DNS Zone Transfer Protocol (AXFR) | IETF RFC 5936:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| DNS Transport over TCP - Implementation Requirements | IETF RFC 5966:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Unique Origin Autonomous System Numbers (ASNs) per Node for Globally Anycasted Services | IETF RFC 6382:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Multicast DNS | IETF RFC 6762:2013 | BSP | NCIA/NSII |
| Extension Mechanisms for DNS (EDNS(0)) | IETF RFC 6891:2013 | FMN4-PROPOSED-PR | FMN CPWG |
| Architectural Considerations of IP Anycast | IETF RFC 7094:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Distributed Time Services | | | |
| Network Time Protocol (NTP) | IETF RFC 5905:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Standard-frequency and time-signal emissions. Annex 1: Coordinated universal time (UTC) | ITU-R TF 460-6:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| DCE 1.1: Time Services | Open Group C310:1994 | BSP | NCIA/CES |

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

²Except 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:2005 | BSP | NCIA/NSII |
| Wireless Broadband | IEEE 802.16e:2004 | BSP | NCIA/NSII |
| Multiple Spanning Trees | IEEE 802.1S:2002 | BSP | NCIA/NSII |
| Mobile Broadband Wireless Access (Draft) | IEEE 802.20:2006 | BSP | NCIA/NSII |
| Dynamic Source Routing (DSR) Draft- version 1.0 | IETF draft-ietf-manet-dsr-09:2003 | BSP | NCIA/NSII |
| Ad-hoc On-Demand Distance Vector Routing (AODV) | IETF RFC 3561:2003 | BSP | NCIA/NSII |
| IPv6 over Low Power Wireless Personal Area Networks | IETF RFC 4919:2007 | BSP | NCIA/NSII |
| 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 Version 1.2 | OASIS CAP 1.2:2010 | BSP | NCIA/Sstrat/ Sea |
| The Open Grid Services Architecture (OGSA) version 1.5 | OGF draft-ogf-ogsa-spec-1.5-011:2006 | BSP | NCIA/CES |
| Wireless USB Specification | USB.ORG wusb:2005 | BSP | NCIA/CES |
| Communications Access Services | | | |
| 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, AC/141 NNAG, JCGUAS |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|-----------------|---------------------------|
| 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 |
| 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)¹ | NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4 | BSP | C3B CaP1 TDL CaT |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A ² | NATO Study (expected) STANAG 4175 Ed 6 | BSP | C3B CaP1 TDL CaT |
| Network Access Control Services | | | |
| Tactical Messaging Access Services | | | |
| 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 11/11B | NATO ATDLP-5.11 Ed B Ver 1:2019 / STANAG FT 5511 Ed 10 | BSP | C3B CaP1 TDL CaT |
| Tactical Data Exchange - Link 16 | NATO ATDLP-5.16 Ed B Ver 1:2019 / STANAG 5516 FT Ed 8 | BSP | C3B CaP1 TDL CaT |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|----------------------|--------------------------|
| Joint Range Extension Application Protocol (JREAP) ¹ | NATO ATDLP-5.18 Ed B Ver 2:2019 / STANAG FT 5518 Ed 4 | BSP | C3B CaP1 TDL CaT |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A ² | NATO Study (expected) STANAG 4175 Ed 6 | BSP | C3B CaP1 TDL CaT |
| Standards for Data Forwarding between Tactical Data Systems | NATO Study (expected) STANAG 5616 Ed 7 | BSP | C3B CaP1 TDL CaT |
| IPv4 Routed Access Services | | | |
| Host Extensions for IP Multicasting | IETF RFC 1112:1989 | FMN4- PROPOSED-PR | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN4- PROPOSED-PR | FMN CPWG |
| Address Allocation for Private Internets | IETF RFC 1918:1996 | FMN4- PROPOSED-PR | FMN CPWG |
| BGP Communities Attribute | IETF RFC 1997:1996 | FMN4- PROPOSED-PR | FMN CPWG |
| Administratively Scoped IP Multicast | IETF RFC 2365:1998 | FMN4- PROPOSED-PR | FMN CPWG |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers | IETF RFC 2474:1998 | FMN4- PROPOSED-PR | FMN CPWG |
| Internet Group Management Protocol, Version 3 | IETF RFC 3376:2002 | FMN4- PROPOSED-PR | FMN CPWG |
| Multicast Source Discovery Protocol (MSDP) | IETF RFC 3618:2003 | FMN4- PROPOSED-PR | FMN CPWG |
| Border Gateway Protocol 4 (BGP-4) | IETF RFC 4271:2006 | FMN4- PROPOSED-PR | FMN CPWG |
| BGP Extended Communities Attribute | IETF RFC 4360:2006 | FMN4- PROPOSED-PR | FMN CPWG |
| Configuration Guidelines for DiffServ Service Classes | IETF RFC 4594:2006 | FMN4- PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|--------------------|------------------|--------------------------|
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Multiprotocol Extensions for BGP-4 | IETF RFC 4760:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| The Generalized TTL Security Mechanism (GTSM) | IETF RFC 5082:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| Capabilities Advertisement with BGP-4 | IETF RFC 5492:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| IANA Guidelines for IPv4 Multicast Address Assignments | IETF RFC 5771:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Autonomous-System-Wide Unique BGP Identifier for BGP-4 | IETF RFC 6286:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Overview of the Internet Multicast Addressing Architecture | IETF RFC 6308:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| BGP Support for Four-Octet Autonomous System (AS) Number Space | IETF RFC 6793:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| IANA Registries for BGP Extended Communities | IETF RFC 7153:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Revised Error Handling for BGP UPDATE Messages | IETF RFC 7606:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised) | IETF RFC 7761:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Transmission of IP Packets over Ethernet Networks | IETF RFC 894:1984 | FMN4-PROPOSED-PR | NCIA/NSII |
| Internet Standard Subnetting Procedure | IETF RFC 950:1985 | FMN4-PROPOSED-PR | NCIA/NSII |
| Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks | ITU-T J.241:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| Performance objectives and procedures for provisioning and maintenance of IP-based networks | ITU-T M.2301:2002 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|--|---|------------------|---------------------------|
| IP packet transfer and availability performance parameters | ITU-T Y.1540:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Network performance objectives for IP-based services | ITU-T Y.1541:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Framework for achieving end-to-end IP performance objectives | ITU-T Y.1542:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| IP QoS for the NII | NCIA TN-1417 | BSP | C3B CaP1 N&S CaT |
| 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 |
| Transport Services | | | |
| 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 |
| Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing | IETF RFC 2545:1999 | BSP | FMN CPWG |
| Stateless IP/ICMP Translation Algorithm (SIIT) | IETF RFC 2765:2000 | BSP | NCIA/NSII |
| Mobility Support in IPv6 | IETF RFC 3775:2004 | BSP | NCIA/NSII |
| Using IPsec to Protect Mobile IPv6 Signaling Between Mobile Nodes and Home Agents | IETF RFC 3776:2004 | BSP | NCIA/CS |
| Border Gateway Multicast Protocol (BGMP) | IETF RFC 3913:2004 | BSP | NCIA/NSII |

| Title | Pubnum | Profiles | Responsible Party |
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| Protocol Independent Multicasting Dense Mode (PIM-DM) | IETF RFC 3973:2005 | BSP | NCIA/NSII |
| Mobile IPv6 Fast Handovers | IETF RFC 5568:2009 | BSP | NCIA/NSII |
| Simplified Multicast Forwarding (SMF) | IETF RFC 6621:2012 | BSP | NCIA/NSII |
| BGP Support for Four-Octet Autonomous System (AS) Number Space | IETF RFC 6793:2012 | BSP | FMN CPWG |
| IP QoS for the NII | NCIA TN-1417 | BSP | C3B CaP1 N&S CaT |
| Transport CIS Security Services | | | |
| Packet-based Transport Services | | | |
| Interface standard for LC connectors with protective housings related to IEC 61076-3-106 | IEC 61754-20-100:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| IEEE Standard for Ethernet | IEEE 802.3:2018 | FMN4-PROPOSED-PR | FMN CPWG |
| Host Extensions for IP Multicasting | IETF RFC 1112:1989 | FMN4-PROPOSED-PR | FMN CPWG |
| Path MTU Discovery | IETF RFC 1191:1990 | FMN4-PROPOSED-PR | FMN CPWG |
| Address Allocation for Private Internets | IETF RFC 1918:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| Routing Information Protocol next generation for IPv6 (RIPng) | IETF RFC 2080:1997 | FMN4-PROPOSED-PR | NCIA/NSII |
| RIP Version 2 | IETF RFC 2453:1998 | FMN4-PROPOSED-PR | FMN CPWG |
| Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers | IETF RFC 2474:1998 | FMN4-PROPOSED-PR | FMN CPWG |
| Generic Routing Encapsulation (GRE) | IETF RFC 2784:2000 | FMN4-PROPOSED-PR | FMN CPWG |
| IP Encapsulating Security Payload (ESP) | IETF RFC 4303:2005 | FMN4-PROPOSED-PR | FMN CPWG |
| Configuration Guidelines for DiffServ Service Classes | IETF RFC 4594:2006 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
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| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| IKE and IKEv2 Authentication Using the Elliptic Curve Digital Signature Algorithm (ECDSA) | IETF RFC 4754:2007 | FMN4-PROPOSED-PR | C3B CaP4 |
| Mobile IPv6 Support for Dual Stack Hosts and Routers | IETF RFC 5555:2009 | BSP | NCIA/NSII |
| IANA Guidelines for IPv4 Multicast Address Assignments | IETF RFC 5771:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Elliptic Curve Groups modulo a Prime (ECP Groups) for IKE and IKEv2 | IETF RFC 5903:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Internet Key Exchange Protocol Version 2 (IKEv2) | IETF RFC 7296:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Signature Authentication in the Internet Key Exchange Version 2 (IKEv2) | IETF RFC 7427:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| Generic Raw Public-Key Support for IKEv2 | IETF RFC 7670:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Ethernet Address Resolution Protocol | IETF RFC 826:1982 | FMN4-PROPOSED-PR | NCIA/NSII |
| Transmission of IP Packets over Ethernet Networks | IETF RFC 894:1984 | FMN4-PROPOSED-PR | NCIA/NSII |
| Internet Standard Subnetting Procedure | IETF RFC 950:1985 | FMN4-PROPOSED-PR | NCIA/NSII |
| Information technology -- Generic cabling for customer premises -- Part 1: General requirements | ISO/IEC 11801-1:2017 | FMN4-PROPOSED-PR | FMN CPWG |
| Characteristics of a single-mode optical fibre and cable | ITU-T G.652:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks | ITU-T J.241:2005 | FMN4-PROPOSED-PR | FMN CPWG |

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| Performance objectives and procedures for provisioning and maintenance of IP-based networks | ITU-T M.2301:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| IP packet transfer and availability performance parameters | ITU-T Y.1540:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Network performance objectives for IP-based services | ITU-T Y.1541:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Framework for achieving end-to-end IP performance objectives | ITU-T Y.1542:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | FMN4-PROPOSED-PR | C3B CaP1 N&S CaT |
| Specifications Defining the Joint Dismounted Soldier System Interoperability Network (JDSSIN) - Network Access | NATO AEP-76 Vol5 Ed A Ver 2:2017 / STANAG 4677 Ed 1 | FMN4-PROPOSED-PR | CNAD, AC/225 NAAG, LCGDSS |
| IP QoS for the NII | NCIA TN-1417 | BSP | C3B CaP1 N&S CaT |
| Packet Routing Services | | | |
| Host Extensions for IP Multicasting | IETF RFC 1112:1989 | FMN4-PROPOSED-PR | FMN CPWG |
| BGP Communities Attribute | IETF RFC 1997:1996 | FMN4-PROPOSED-PR | FMN CPWG |
| Administratively Scoped IP Multicast | IETF RFC 2365:1998 | FMN4-PROPOSED-PR | FMN CPWG |
| Internet Group Management Protocol, Version 3 | IETF RFC 3376:2002 | FMN4-PROPOSED-PR | FMN CPWG |
| Multicast Source Discovery Protocol (MSDP) | IETF RFC 3618:2003 | FMN4-PROPOSED-PR | FMN CPWG |
| Border Gateway Protocol 4 (BGP-4) | IETF RFC 4271:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| BGP Extended Communities Attribute | IETF RFC 4360:2006 | FMN4-PROPOSED-PR | FMN CPWG |
| Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan | IETF RFC 4632:2006 | FMN4-PROPOSED-PR | FMN CPWG |

| Title | Pubnum | Profiles | Responsible Party |
|---|--|------------------|--------------------------|
| Multiprotocol Extensions for BGP-4 | IETF RFC 4760:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| The Generalized TTL Security Mechanism (GTSM) | IETF RFC 5082:2007 | FMN4-PROPOSED-PR | FMN CPWG |
| Capabilities Advertisement with BGP-4 | IETF RFC 5492:2009 | FMN4-PROPOSED-PR | FMN CPWG |
| IANA Guidelines for IPv4 Multicast Address Assignments | IETF RFC 5771:2010 | FMN4-PROPOSED-PR | FMN CPWG |
| Autonomous-System-Wide Unique BGP Identifier for BGP-4 | IETF RFC 6286:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| Overview of the Internet Multicast Addressing Architecture | IETF RFC 6308:2011 | FMN4-PROPOSED-PR | FMN CPWG |
| BGP Support for Four-Octet Autonomous System (AS) Number Space | IETF RFC 6793:2012 | FMN4-PROPOSED-PR | FMN CPWG |
| IANA Registries for BGP Extended Communities | IETF RFC 7153:2014 | FMN4-PROPOSED-PR | FMN CPWG |
| Revised Error Handling for BGP UPDATE Messages | IETF RFC 7606:2015 | FMN4-PROPOSED-PR | FMN CPWG |
| Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised) | IETF RFC 7761:2016 | FMN4-PROPOSED-PR | FMN CPWG |
| Interoperability Point Quality of Service (IP QoS) | NATO AComP-4711 Ed A Ver 1:2018 / STANAG 4711 Ed 1 | BSP | C3B CaP1 N&S CaT |
| 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 |
| 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 |
| Packet-based Broadcast 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 |
| Wireless LOS Mobile Transmission Services | | | |

| Title | Pubnum | Profiles | Responsible Party |
|--|--|----------|------------------------|
| Bluetooth Core Specification v5.0 | Bluetooth SIG Core Version 5.0:2016 | BSP | NCIA/NSII |
| Wireless LOS Mobile Narrowband Transmission Services | | | |
| Voice Coding Algorithm | NATO STANAG 4444 Ed 2:2015 | BSP | C3B CaP1 Blos Comms |
| Wireless LOS Mobile Wideband Transmission Services | | | |
| 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 |

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.

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 4 Profile |
| This document defines the proposed Standards Profile for Federated Mission Networking (FMN) Spiral 4. The FMN Standards Profiles provides a suite of interoperability standards and other standardized profiles for interoperability of selected community of interest services, core services and communications services in a federation of mission networks. It places the required interoperability requirements, standards and specifications in context for FMN Affiliates. | |
| Proposed FMN Spiral 4 Profile | FMN4 |

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