## **NATO STANDARD**

## ADatP-34

## NATO Interoperability Standards and Profiles

Volume 3

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#### NATO LETTER OF PROMULGATION

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

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Zoltán GULYÁS Brigadier General, HUNAF Director, NATO Standardization Office

## RESERVED FOR NATIONAL LETTER OF PROMULGATION

#### **RECORD OF RESERVATIONS**

| CHAPTER | RECORD OF RESERVATION BY NATIONS |
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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.

### **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**

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#### 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 | 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<br>Party |
|--|--|----------|----------------------|
| Symbology Services   |  |          |                      |
| NATO Vector Graphics<br>Specification 2.0.2                          | NATO ADatP-4733<br>Ed A Ver 1:2017 /<br>STANAG (Study)<br>4733 Ed 1        | BSP      | C3B CaP1             |
| NATO Transformational Baseline 3.0:2009 (ACT)                        | NATO TIDE/<br>TTB:2009   | BSP      | NCIA/CES             |
| GML in JPEG 2000 for Geographic Imagery (GMLJP2)                     | OGC 05-047r3:2006  | BSP      | FMN CPWG             |
| Track Management Services  |  |          |                      |
| Technical Characteristics of Reverse IFF using Mode 5 Waveform       | NATO Study<br>(expected) AEtP-4722<br>Ed. A Ver. 1 /<br>STANAG 4722 Ed 1   | BSP      | C3B CaP2             |
| Identification Data Combining Process                                | NATO Study<br>(expected) AIDPP-01<br>Ed. A version 1 /<br>STANAG 4162 Ed 3 | BSP      | C3B CaP2             |
| Tactical Data Exchange - Link 11/11B                                 | NATO ATDLP-5.11<br>Ed B Ver 1:2019 /<br>STANAG FT 5511 Ed<br>10            |          | C3B CaP1<br>TDL CaT  |
| Tactical Data Exchange - Link 16                                     | NATO ATDLP-5.16<br>Ed B Ver 1:2019 /<br>STANAG 5516 FT Ed<br>8             |          | C3B CaP1<br>TDL CaT  |
| Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B <sup>1</sup> | NATO Study<br>(expected) STANAG  |          | C3B CaP1<br>TDL CaT  |

| Title                                   | Pubnum                       | Responsible<br>Party |
|---|------------------------------|----------------------|
|   | 5522 Ed 6 /<br>ATDLP-5.22(B) |                      |
| <b>Modeling and Simulation Services</b> |                              |                      |

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

## 1.3.2. Core Services

| Title   | Pubnum                                   | Profiles | Responsible<br>Party                |
|---|--|----------|-------------------------------------|
| <b>Business Support CIS Security Ser</b>                                  | vices                                    |          |                                     |
| Common Biometric Exchange<br>Formats Framework (CBEFF)                    | ANSI incits-398:2008                     | BSP      | NCIA/JISR                           |
| Electronic Biometric Transmission<br>Specification (EBTS)                 | FBI IAFIS-<br>DOC-01078-8.1:2008         | BSP      | CNAD,<br>AC/224<br>NAFAG,<br>JCGISR |
| Communication and Collaboration   | Services                                 |          |                                     |
| HyperText Markup Language (HTML), Version 5.0, Reference Specification    |  | BSP      | NCIA/CES                            |
| Fax Services  |  | 1        | ,                                   |
| Procedures for real-time Group 3 facsimile communication over IP networks | ITU-T T.38:2010                          | BSP      | NCIA/NSII                           |
| Geospatial Services   |  | 1        | ,                                   |
| OpenGIS Web Processing Service  | OGC 05-007r7:2007                        | BSP      | NCIA/AWG                            |
| <b>Geospatial Web Coverage Services</b>                                   |  | l .      |                                     |
| Web Coverage Service<br>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<br>Specification -<br>01:2004 | BSP      | NCIA/CS                             |

| Title  | Pubnum  | Profiles       | Responsible<br>Party |  |  |
|--|---|----------------|----------------------|--|--|
| Formal Messaging Services  |   |                |                      |  |  |
| Registration of Military Message<br>Handling System (MMHS) Header<br>Fields for Use in Internet Mail |   | BSP            | NCIA/CES             |  |  |
| Tactical Data Exchange - Link 11/11B   | NATO ATDLP-5.11<br>Ed B Ver 1:2019 /<br>STANAG FT 5511 Ed<br>10 | BSP            | C3B CaP1<br>TDL CaT  |  |  |
| Tactical Data Exchange - Link 16   | NATO ATDLP-5.16<br>Ed B Ver 1:2019 /<br>STANAG 5516 FT Ed<br>8  |                | C3B CaP1<br>TDL CaT  |  |  |
| Joint Range Extension Application<br>Protocol (JREAP) <sup>1</sup>                                   | NATO ATDLP-5.18<br>Ed B Ver 2:2019 /<br>STANAG FT 5518 Ed<br>4  | BSP            | C3B CaP1<br>TDL CaT  |  |  |
| Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B <sup>1</sup>                                 | NATO Study<br>(expected) STANAG<br>5522 Ed 6 /<br>ATDLP-5.22(B) | BSP            | C3B CaP1<br>TDL CaT  |  |  |
| SOAP Messages with Attachments (SwA) Profile 1.1   | OASIS wss-v1.1-<br>spec-os-<br>SwAProfile:2006                  | BSP            | NCIA/CES             |  |  |
| Variable Message Format (VMF) <sup>2</sup>   | US DoD MIL-<br>STD-6017D:2017                                   | BSP            | C3B CaP1             |  |  |
| Platform Services  |   |                |                      |  |  |
| WS-BrokeredNotification 1.3  | OASIS wsn-<br>ws_brokered_notificati<br>spec-os:2006            | BSP<br>on-1.3- | NCIA/CES             |  |  |
| Web Services Business Process<br>Execution Language (WSBPEL)<br>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-<br>ws_topics-1.3-spec-<br>os:2006                    | BSP            | NCIA/CES             |  |  |
| Web Services Addressing 1.0 - Core   | W3C REC-ws-addr-core-20060509:2006                              | BSP            | FMN CPWG             |  |  |

| Title   | Pubnum  | Profiles                   | Responsible Party                   |
|---|---|----------------------------|-------------------------------------|
| Attachments Profile Version 1.0   | WS-I<br>AttachmentsProfile-1.0                        | BSP<br>-2006-04-20:2004    | 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<br>SimpleSoapBindingPro                          | BSP<br>ofile-1.0-2004-08-2 | NCIA/CES<br>4:2004                  |
| Security Token Services   |   |                            |                                     |
| RADIUS and IPv6   | IETF RFC 3162:2001                                    | BSP                        | NCIA/NSII                           |
| Single Sign On  | Open Group<br>P702:1997                               | BSP                        | C3B CaP4                            |
| <b>Policy Decision Point Services</b>   |   |                            |                                     |
| Data Format for the Interchange of Fingerprint Facial, and Scar Mark and Tattoo (SMT) Information |   | BSP                        | NCIA/JISR                           |
| Biometric data interchange formats Part 2:  | ISO/IEC<br>19794-2:2007                               | BSP                        | NCIA/JISR                           |
| Biometric data interchange formats Part 5: Face image data  | ISO/IEC<br>19794-5:2007                               | BSP                        | NCIA/JISR                           |
| Biometric data interchange formats<br>Part 6: Iris image data                                     | ISO/IEC<br>19794-6:2007                               | BSP                        | NCIA/JISR                           |
| NATO Public Key Infrastructure (NPKI) Certificate Policy (CertP) Rev2.                            |   |                            | C3B NPMA                            |
| eXtensible Access Control Markup<br>Language core specification                                   | OASIS xacml-3.0-core-spec-os:2013                     | BSP                        | NCIA/CS                             |
| DOD EBTS  | US DoD DIN:<br>DOD_BTF_TS_EBTS<br>Nov06_01.02.00:2006 |                            | CNAD,<br>AC/224<br>NAFAG,<br>JCGISR |
| DOD EBTS  | US DoD DIN:<br>DOD_BTF_TS_EBTS<br>Mar09_02.00.00:2009 |                            | CNAD,<br>AC/224<br>NAFAG,<br>JCGISR |
| Platform SMC Services   |   |                            |                                     |
| Common Information Model (CIM) v2.2   | DMTF DSP0004:1999                                     | BSP                        | C3B CaP1<br>SMC CaT                 |

| Title   | Pubnum                             | Profiles | Responsible Party   |  |
|---|------------------------------------|----------|---------------------|--|
| Web Services for Management (WS-Management) Specification                                   | DMTF DSP0226:2010                  | BSP      | C3B CaP1<br>SMC CaT |  |
| WS-Management CIM Binding Specification   | DMTF DSP0227:2010                  | BSP      | C3B CaP1<br>SMC CaT |  |
| Remote Network Monitoring<br>Management Information Base,<br>RMON-MIB version 2 using SMIv2 | IETF RFC 2021:1997                 | BSP      | NCIA/SMC            |  |
| IP Version 6 Management<br>Information Base for the<br>Transmission Control Protocol        | IETF RFC 2452:1998                 | BSP      | NCIA/NSII           |  |
| IP Version 6 Management<br>Information Base for the User<br>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<br>Discovery MIB   | IETF RFC 5519:2009                 | BSP      | NCIA/NSII           |  |
| Enhanced Telecom Operations Map   | TM-FORUM eTOM<br>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<br>Specification   | OASIS ebms2:2002                   | BSP      | NCIA/CES            |  |
| Web Services Dynamic Discovery<br>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                  |                                    |          | NCIA/Sstrat/<br>Sea |  |
| Message-Oriented Middleware Services  |                                    |          |                     |  |
| SOAP Version 1.2  | W3C SOAP Version 1.2:2001          | BSP      | NCIA/CES            |  |
| Web Platform Services   |                                    |          |                     |  |

| Title  | Pubnum                                   | Profiles | Responsible<br>Party |
|--|--|----------|----------------------|
| Content-ID and Message-ID Uniform Resource Locators                            | IETF RFC 2392:1998                       | BSP      | NCIA/CES             |
| XML Linking Language (XLink)<br>Version 1.1                                    | W3C REC-<br>xlink11-20100506:201         |          | NCIA/CES             |
| Extensible Markup Language (XML) version 1.1 (Second Edition)                  | W3C REC-<br>xml11-20060816:2006          | BSP      | NCIA/CES             |
| Web Presentation Services  |  |          |                      |
| Web Services for Remote Portlets<br>Specification                              | OASIS wsrp-specification-2.0:2008        | BSP      | NCIA/CES             |
| <b>Information Discovery Services</b>  |  |          |                      |
| OpenSearch 1.1 Draft 6   | Opensearch<br>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-<br>xforms-20031014:2003         |          | NCIA/CES             |
| Metadata Repository Services   |  |          |                      |
| Web Services Metadata Exchange (WS-MetadataExchange)                           | W3C REC-ws-metadata-exchange-20111213:20 |          | NCIA/CES             |
| <b>Directory Services</b>  |  |          |                      |
| Common Directory Services and Procedures                                       | CCEB ACP 133(D):2009                     | BSP      | C3B NACP<br>CaT      |
| <b>Choreography Services</b>   | ,  |          | ,                    |
| W3C Web Service Choreography<br>Interface version 1.0                          | W3C NOTE-<br>wsci-20020808:2002          | BSP      | NCIA/CES             |
| <b>Mediation Services</b>  |  |          | J                    |
| Services to forward Friendly Force<br>Information to Weapon Delivery<br>Assets | A Ver 1:2018 /<br>STANAG 5528 Ed 1       | BSP      | C3B CaP2             |
| Data Format Transformation Serv  | ices                                     |          |                      |

| Title   | Pubnum   | Profiles | Responsible Party           |
|---|--|----------|-----------------------------|
| XML Query Language (XQuery)   | W3C WD-<br>xquery-20030502:2003                        |          | NCIA/CES                    |
| Infrastructure Services   |  |          |                             |
| Real Time Control Protocol (RTCP)<br>attribute in Session Description<br>Protocol (SDP) | 1  | BSP      | NCIA/NSII                   |
| The Secure Real-time Transport<br>Protocol (SRTP)                                       | IETF RFC 3711:2004                                     | BSP      | FMN CPWG                    |
| NATO Imagery Interpretability<br>Rating Scale (NIIRS)                                   | NATO AIntP-07 Ed<br>A Ver 1:2018 /<br>STANAG 7194 Ed 2 | BSP      | MC,<br>MCJSB,<br>JINT JISRP |
| Distributed File System (DFS) DCE DFS   | Open Group<br>F209a:1997                               | BSP      | NCIA/CES                    |
| Infrastructure Networking Service   | S  |          |                             |
| 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)         |  | BSP      | NCIA/CES                    |
| DCE 1.1: Remote Procedure Call  | Open Group<br>C706:1997                                | BSP      | NCIA/CES                    |
| <b>Host Configuration Services</b>  |  |          |                             |
| Dynamic Host Configuration<br>Protocol for IPv6 (DHCPv6)                                | IETF RFC 3315:2003                                     | BSP      | NCIA/NSII                   |
| IPv6 Prefix Options for Dynamic<br>Host Configuration Protocol (DHCP)<br>version 6      |  | BSP      | NCIA/NSII                   |
| Data Transfer Services  |  |          |                             |
| FTP Extensions for IPv6 and NATs  | IETF RFC 2428:1998                                     | BSP      | NCIA/NSII                   |
| Domain Name Services  |  |          |                             |

| Title   | Pubnum                  | Profiles | Responsible<br>Party |
|---|-------------------------|----------|----------------------|
| DNS Configuration options for<br>Dynamic Host Configuration<br>Protocol for IPv6 (DHCPv6) |                         | BSP      | NCIA/NSII            |
| Network Information Service (NIS)<br>Configuration Options for DHCPv6                     | IETF RFC 3898:2004      | BSP      | NCIA/NSII            |
| A Method for Storing IPsec Keying<br>Material in DNS                                      | IETF RFC 4025:2005      | BSP      | NCIA/CS              |
| Multicast DNS   | IETF RFC 6762:2013      | BSP      | NCIA/NSII            |
| Distributed Time Services   |                         |          |                      |
| DCE 1.1: Time Services  | Open Group<br>C310:1994 | BSP      | NCIA/CES             |

<sup>&</sup>lt;sup>1</sup>The SIP for Recognized Air Picture Data refers to ATDLP-5.18 Ed B Version 1 instead of ATDLP-5.18 Ed B Version 2 <sup>2</sup>Except Appendix B, List of Geographical Data Field Identifiers (DFIs)

### 1.3.3. Communications Services

| Title  | Pubnum                            | Profiles | Responsible<br>Party |
|--|-----------------------------------|----------|----------------------|
| <b>Communications Services</b>                         |                                   |          |                      |
| High Rate Ultra-Wide Band PHY and MAC Standard         | ECMA<br>ECMA-368:2008             | BSP      | NCIA/NSII            |
| Broadband Radio Access Networks (BRAN) HiperMAN        | ETSI TS 102<br>624-1:2009         | BSP      | NCIA/NSII            |
| ZigBee   | IEEE 802.15.4:2005                | BSP      | NCIA/NSII            |
| Mobile WiMax   | IEEE 802.16e:2005                 | BSP      | NCIA/NSII            |
| Wireless Broadband                                     | IEEE 802.16e:2004                 | BSP      | NCIA/NSII            |
| Multiple Spanning Trees                                | IEEE 802.1S:2002                  | BSP      | NCIA/NSII            |
| Mobile Broadband Wireless Access (Draft)               | IEEE 802.20:2006                  | BSP      | NCIA/NSII            |
| 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<br>Personal Area Networks | IETF RFC 4919:2007                | BSP      | NCIA/NSII            |

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

| Title   | Pubnum  | Profiles | Responsible<br>Party |
|---|---|----------|----------------------|
| Information Assurance for Allied Communications and Information Systems   |   | BSP      | C3B NACP<br>CaT      |
| Address Indicating Groups -<br>Instructions and Assignments   | NATO ACP 100<br>NS-1(Q)   | BSP      | C3B NACP<br>CaT      |
| Instructions for the Life<br>Cyle Management of Allied<br>Communications Publications<br>(ACPs), NATO Supplement-1                                    |   | BSP      | C3B NACP<br>CaT      |
| Tactical Data Exchange - Link 11/11B  | NATO ATDLP-5.11<br>Ed B Ver 1:2019 /<br>STANAG FT 5511 Ed<br>10 |          | C3B CaP1<br>TDL CaT  |
| Tactical Data Exchange - Link 16  | NATO ATDLP-5.16<br>Ed B Ver 1:2019 /<br>STANAG 5516 FT Ed<br>8  |          | C3B CaP1<br>TDL CaT  |
| Joint Range Extension Application<br>Protocol (JREAP) <sup>1</sup>  | NATO ATDLP-5.18<br>Ed B Ver 2:2019 /<br>STANAG FT 5518 Ed<br>4  |          | C3B CaP1<br>TDL CaT  |
| Technical Characteristics of<br>the Multifunctional Information<br>Distribution System (MIDS) - VOL I<br>& VOL II - ATDLP-1.75 Edition A <sup>2</sup> |   |          | C3B CaP1<br>TDL CaT  |
| Standards for Data Forwarding between Tactical Data Systems   | NATO Study<br>(expected) STANAG<br>5616 Ed 7                    | BSP      | C3B CaP1<br>TDL CaT  |
| <b>IPv4 Routed Access Services</b>  |   |          |                      |
| IP QoS for the NII  | NCIA TN-1417  | BSP      | C3B CaP1<br>N&S CaT  |
| IPv6 Routed Access Services   |   |          |                      |
| Interoperability Point Quality of<br>Service (IP QoS)   | NATO AComP-4711<br>Ed A Ver 1:2018 /<br>STANAG 4711 Ed 1        | BSP      | C3B CaP1<br>N&S CaT  |
| Transport Services  |   |          |                      |
| Routing Information Protocol next generation for IPv6 (RIPng)   | IETF RFC 2080:1997  | BSP      | NCIA/NSII            |

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| Title   | Pubnum   | Profiles | Responsible<br>Party |
|---|--|----------|----------------------|
| 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<br>Extensions for IPv6 Inter-Domain<br>Routing                                       | IETF RFC 2545:1999                                       | BSP      | FMN CPWG             |
| Stateless IP/ICMP Translation<br>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<br>Signaling Between Mobile Nodes<br>and Home Agents                         | IETF RFC 3776:2004                                       | BSP      | NCIA/CS              |
| Border Gateway Multicast Protocol (BGMP)  | IETF RFC 3913:2004                                       | BSP      | NCIA/NSII            |
| Protocol Independent Multicasting<br>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<br>Autonomous System (AS) Number<br>Space  | IETF RFC 6793:2012                                       | BSP      | FMN CPWG             |
| IP QoS for the NII  | NCIA TN-1417   | BSP      | C3B CaP1<br>N&S CaT  |
| <b>Packet-based Transport Services</b>  |  |          |                      |
| Mobile IPv6 Support for Dual Stack<br>Hosts and Routers   | IETF RFC 5555:2009                                       | BSP      | NCIA/NSII            |
| IP QoS for the NII  | NCIA TN-1417   | BSP      | C3B CaP1<br>N&S CaT  |
| <b>Packet Routing Services</b>  |  |          |                      |
| Interoperability Point Quality of<br>Service (IP QoS)   | NATO AComP-4711<br>Ed A Ver 1:2018 /<br>STANAG 4711 Ed 1 | BSP      | C3B CaP1<br>N&S CaT  |
| Standard for Interconnection of IPv4<br>and IPv6 Networks at Mission Secret<br>and Unclassified Security Levels |  | BSP      | C3B CaP1<br>N&S CaT  |
| Packet-based Aggregation Services   | · ·  |          |                      |

| Title  | Pubnum   | Profiles | Responsible<br>Party   |
|--|--|----------|------------------------|
| Interoperability Point Quality of<br>Service (IP QoS)  | NATO AComP-4711<br>Ed A Ver 1:2018 /<br>STANAG 4711 Ed 1 | BSP      | C3B CaP1<br>N&S CaT    |
| Packet-based Broadcast Services  |  |          |                        |
| Interoperability Point Quality of Service (IP QoS)   | NATO AComP-4711<br>Ed A Ver 1:2018 /<br>STANAG 4711 Ed 1 |          | C3B CaP1<br>N&S CaT    |
| Wireless LOS Mobile Transmission   | Services   |          | 1                      |
| Bluetooth Core Specification v5.0  | Bluetooth SIG Core<br>Version 5.0:2016                   | BSP      | NCIA/NSII              |
| Wireless LOS Mobile Narrowband   | Transmission Service                                     | S        |                        |
| Voice Coding Algorithm   | NATO STANAG<br>4444 Ed 2:2015                            | BSP      | C3B CaP1<br>Blos Comms |
| Wireless LOS Mobile Wideband T   | ransmission Services                                     |          |                        |
| Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A <sup>2</sup> | (expected) STANAG  |          | C3B CaP1<br>TDL CaT    |

<sup>&</sup>lt;sup>1</sup>The extant edition is Ed 1

## 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 stakesholders 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.

<sup>&</sup>lt;sup>2</sup>The extant edition is Ed 5

## **CHAPTER 2. CANDIDATE PROFILES**

## 2.1. INTRODUCTION

011. There is currently no candidate profiles in NISP.

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