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Volume 3

Candidate Interoperability Standards and Profiles

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NATO LETTER OF PROMULGATION

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RECORD OF SPECIFIC RESERVATIONS

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CHAPTER 1. STANDARDS

1.1. INTRODUCTION

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

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

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

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

1.1.1. Releasability Statement

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

1.2. USER APPLICATIONS

Title	Pubnum	Profiles	Responsible Party

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
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 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
Track Management Services			
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
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
Tactical Data Exchange - Link-22 - ATDLP-5.22 Edition B¹	NATO Study (expected) STANAG	BSP	C3B CaP1 TDL CaT

Title	Pubnum	Profiles	Responsible Party
	5522 Ed 6 / ATDLP-5.22(B)		
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 NAFAG, JCGISR
Communication and Collaboration Services			
HyperText Markup Language (HTML), Version 5.0, Reference Specification	W3C WD- html5-20121025:2012	BSP	NCIA/CES
Fax Services			
Procedures for real-time Group 3 facsimile communication over IP networks	ITU-T T.38:2010	BSP	NCIA/NSII
Geospatial Services			
OpenGIS Web Processing Service	OGC 05-007r7:2007	BSP	NCIA/AWG
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

Title	Pubnum	Profiles	Responsible Party
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
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

Title	Pubnum	Profiles	Responsible Party
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
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_01.02.00:2006	BSP	CNAD, AC/224 NAFAG, JCGISR
DOD EBTS	US DoD DIN: DOD_BTFS_TS_EBTS_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

Title	Pubnum	Profiles	Responsible Party
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
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			
SOAP Version 1.2	W3C SOAP Version 1.2:2001	BSP	NCIA/CES
Web Platform Services			

Title	Pubnum	Profiles	Responsible Party
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 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
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			

Title	Pubnum	Profiles	Responsible Party
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
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
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			

Title	Pubnum	Profiles	Responsible Party
DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	IETF RFC 3646:2003	BSP	NCIA/NSII
Network Information Service (NIS) Configuration Options for DHCPv6	IETF RFC 3898:2004	BSP	NCIA/NSII
A Method for Storing IPsec Keying Material in DNS	IETF RFC 4025:2005	BSP	NCIA/CS
Multicast DNS	IETF RFC 6762:2013	BSP	NCIA/NSII
Distributed Time Services			
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

Title	Pubnum	Profiles	Responsible Party
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
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
Tactical Messaging Access Services			
Call Sign Book for Ships	CCEB ACP 113(AJ):2019	BSP	C3B NACP CaT

Title	Pubnum	Profiles	Responsible Party
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
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			
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

Title	Pubnum	Profiles	Responsible 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 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
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
Packet-based Transport Services			
Mobile IPv6 Support for Dual Stack Hosts and Routers	IETF RFC 5555:2009	BSP	NCIA/NSII
IP QoS for the NII	NCIA TN-1417	BSP	C3B CaP1 N&S CaT
Packet Routing 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
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			

Title	Pubnum	Profiles	Responsible Party
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			
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 1²The 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.

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CHAPTER 2. CANDIDATE PROFILES

2.1. INTRODUCTION

011. There is currently no candidate profiles in NISP.

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