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NATO Interoperability Standards and Profiles

Volume 3

Candidate Interoperability Standards and Profiles (Version 11)

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C3B Interoperability Profiles Capability Team

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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 2.0 NATO's C3 Taxonomy, as endorsed by the NATO C3 Board per AC/322-N(2016)0021-AS1 on 11 February 2016. 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 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. The left column of the table corresponds to a service in the C3 Taxonomy. The section headers correspond to a service at a higher (or the same) level. In general, a service is only listed if at least one standard is assigned to this service.

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

1.1.1. Releasability Statement

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

1.2. USER APPLICATIONS

Title	Pubnum	Profiles	Responsible Party
User Applications			
Secure Communications Interoperability Protocol (SCIP) - AComP-5068 EDITION A ¹	NSO STANAG 5068 Ed 1	BSP	N&S CaT

¹STANAG 5068 Ed 1 - This is a candidate standard in the NISP, but promulgated according to the NSO on 2017-03-03.

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
COI-Enabling Services			
MIP Baseline 4	MIP MIP BL 4	BSP	NCIA/Sstrat/Sea
MIP Information Model 4.1	MIP MIM 4.1	BSP	NCIA/Sstrat/Sea
Symbology Services			
NATO Transformational Baseline 3.0:2009 (ACT)	NATO TIDE/TTB	BSP	NCIA/CES
NATO VECTOR GRAPHICS (NVG) - ADatP-4733 Ed. A (RD)	NSO STANAG 4733 Ed. 1	BSP	NCIA
GML in JPEG 2000 for Geographic Imagery (GMLJP2)	OGC 05-047r3	BSP	FMN CPWG
Web Coverage Service Implementation Standard v1.1.2	OGC 07-067r5	BSP	NCIA/AWG
Common Warfighting Symbology	US DoD MIL-STD-2525C	BSP	AMN TMO
Track Services			
Technical Characteristics of Reverse IFF using Mode 5 Waveform - AEtP-4722 Edition A	NSO AEtP-4722 Ed. A Ver. 1	BSP	C3B, CaP2
Identification Data Combining Process	NSO AIDPP-01 ed. A version 1	BSP	C3B, CaP2
Tactical Data Exchange - Link 11/11B	NSO-Expected STANAG 5511 Ed 10 / ATDLP-5.11(B)	BSP	C3B TDL CaT
NATO Bit-Oriented Message (BOM) Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NSO-Expected STANAG 5516 Ed 8 / ATDLP-5.16(B)	BSP	C3B TDL CaT

Title	Pubnum	Profiles	Responsible Party
Link-22 - ATDLP-5.22 Edition B	NSO-Expected STANAG 5522 Ed 6 / ATDLP-5.22(B)	BSP	C3B TDL CaT

1.3.2. Core Services

Title	Pubnum	Profiles	Responsible Party
Business Support CIS Security Services			
Common Biometric Exchange Formats Framework (CBEFF)	ANSI incits-398	BSP	NCIA/JISR
Electronic Biometric Transmission Specification (EBTS)	FBI IAFIS-DOC-01078-8.1	BSP	AMN TMO
Unified Communication and Collaboration Services			
Office Open XML	ECMA ECMA-376	BSP	AMN TMO
HyperText Markup Language (HTML), Version 5.0, Reference Specification	W3C WD-html5-20121025	BSP	NCIA/CES
Military Messaging Services			
Registration of Military Message Handling System (MMHS) Header Fields for Use in Internet Mail	IETF RFC 6477	BSP	NCIA/CES
Tactical Data Exchange - Link 11/11B	NSO-Expected STANAG 5511 Ed 10 / ATDLP-5.11(B)	BSP	C3B TDL CaT
NATO Bit-Oriented Message (BOM) Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NSO-Expected STANAG 5516 Ed 8 / ATDLP-5.16(B)	BSP	C3B TDL CaT
Link-22 - ATDLP-5.22 Edition B	NSO-Expected STANAG 5522 Ed 6 / ATDLP-5.22(B)	BSP	C3B TDL CaT
NATO Message Catalogue, APP-11 Edition D v2 ¹	NSO STANAG 7149 Ed 6/APP-11 Edition D v2	BSP	MC, MCJSB, IERHWG
SOAP Messages with Attachments (SwA) Profile 1.1	OASIS wss-v1.1-spec-os-SwAProfile	BSP	NCIA/CES
Variable Message Format (VMF) ²	US DoD mil-std 6017C	BSP	C3B, CaP1

Title	Pubnum	Profiles	Responsible Party
Informal Messaging Services			
SMTP Service Extensions for Transmission of Large and Binary MIME Messages	IETF RFC 3030	BSP	NCIA/CES
Fax Services			
Procedures for real-time Group 3 facsimile communication over IP networks	ITU-T T.38	BSP	NCIA/NSII
Information Management Services			
Application Vulnerability Description Language (AVDL) version 1.0	OASIS AVDL Specification - 01	BSP	NCIA/CS
Geospatial Services			
Esri Open GeoServices REST Specification, v.1.0	ESRI REST	BSP	AMN TMO
Geospatial Data Abstraction Library (GDAL)	GDAL gdal	BSP	AMN TMO
OpenGIS Web Processing Service	OGC 05-007r7	BSP	NCIA/AWG
OpenGIS Web Map Tile Service Implementation Standard	OGC 07-057r7	BSP	NCIA/AWG
Geospatial Coordinate Services			
OpenGIS Coordinate Transformation Services	OGC 01-009	BSP	NCIA/AWG
SOA Platform Services			
WS-BrokeredNotification 1.3	OASIS wsn-ws_brokered_notification-1.3-spec-os	BSP	NCIA/CES
Web Services Business Process Execution Language (WSBPEL) version 2.0	OASIS ws-bpel	BSP	NCIA/CES
WS-BaseNotification	OASIS ws-notif	BSP	NCIA/CES
WS-Topics 1.3	OASIS wsn-ws_topics-1.3-spec-os	BSP	NCIA/CES
Web Services Addressing 1.0 - Core	W3C REC-ws-addr-core-20060509	BSP	FMN CPWG

Title	Pubnum	Profiles	Responsible Party
Attachments Profile Version 1.0	WS-I AttachmentsProfile-1.0-2006-04-20	BSP	NCIA/CES
WS-I Basic Profile 1.2	WS-I BP12	BSP	NCIA/CES
WS-I Basic Profile 2.0	WS-I wsbp	BSP	NCIA/CES
Simple SOAP Binding Profile Version 1.0	WS-I SimpleSoapBindingProfile-1.0-2004-08-24	BSP	NCIA/CES
Security Token Services			
The Kerberos Network Authentication Service (V5)	IETF RFC 1510	BSP	AMN TMO
RADIUS and IPv6	IETF RFC 3162	BSP	NCIA/NSII
Single Sign On	Open Group P702	BSP	CaP/4
Policy Decision Point Services			
Data Format for the Interchange of Fingerprint Facial, and Scar Mark and Tattoo (SMT) Information	ANSI/NIST ITL 1-2000	BSP	NCIA/JISR
Biometric data interchange formats -- Part 2:	ISO ISO/IEC 19794-2:2011	BSP	NCIA/JISR
Biometric data interchange formats -- Part 5: Face image data	ISO ISO/IEC 19794-5:2005	BSP	NCIA/JISR
Biometric data interchange formats -- Part 6: Iris image data	ISO ISO/IEC 19794-6:2011	BSP	NCIA/JISR
NATO Public Key Infrastructure (NPKI) Certificate Policy (CertP) Rev2.	NATO AC/322- D(2004)0024REV2	BSP	C3B/NPMA
eXtensible Access Control Markup Language core specification	OASIS xacml-3.0- core-spec-os	BSP	NCIA/CS
DOD EBTS	US DoD DIN: DOD_BTf_TS_EBTS_ Nov06_01.02.00	BSP	AMN TMO
DOD EBTS	US DoD DIN: DOD_BTf_TS_EBTS_ Mar09_02.00.00	BSP	AMN TMO
SOA Platform SMC Services			
Common Information Model (CIM) v2.2	DMTF DSP0004	BSP	AMN TMO

Title	Pubnum	Profiles	Responsible Party
Web Services for Management (WS-Management) Specification	DMTF DSP0226	BSP	AMN TMO
WS-Management CIM Binding Specification	DMTF DSP0227	BSP	AMN TMO
Configuration Management Database (CMDB) Federation Specification	DMTF DSP0252	BSP	AMN TMO
Remote Network Monitoring Management Information Base, RMON-MIB version 2 using SMIV2	IETF RFC 2021	BSP	NCIA/SMC
IP Version 6 Management Information Base for the Transmission Control Protocol	IETF RFC 2452	BSP	NCIA/NSII
IP Version 6 Management Information Base for the User Datagram Protocol	IETF RFC 2454	BSP	NCIA/NSII
IPv6 MIB	IETF RFC 2465	BSP	NCIA/SMC
ICMPv6 MIB	IETF RFC 2466	BSP	NCIA/SMC
Multicast Group Membership Discovery MIB	IETF RFC 5519	BSP	NCIA/NSII
Enhanced Telecom Operations Map	TM-FORUM eTOM Rel.13	BSP	NCIA/SMC
Service Discovery Services			
DNS-Based Service Discovery	IETF RFC 6763	BSP	NCIA/CES
TIDE Service Discovery	NATO TIDE/TIDE-ID-SP	BSP	NCIA/CES
OASIS ebXML Messaging Services Specification	OASIS ebms2	BSP	NCIA/CES
Web Services Dynamic Discovery Version 1.1	OASIS wsdd-discovery-1.1-spec	BSP	NCIA/CES
Web Services Description Language (WSDL) Version 2.0 Part 1: Core Language	W3C REC-wsdl20-20070626	BSP	NCIA/Sstrat/Sea
Message-Oriented Middleware Services			
SOAP Version 1.2	W3C SOAP Version 1.2	BSP	NCIA/CES

Title	Pubnum	Profiles	Responsible Party
Web Platform Services			
Content-ID and Message-ID Uniform Resource Locators	IETF RFC 2392	BSP	NCIA/CES
XML Linking Language (XLink) Version 1.1	W3C REC-xlink11-20100506	BSP	NCIA/CES
Extensible Markup Language (XML) version 1.1 (Second Edition)	W3C REC-xml11-20060816	BSP	NCIA/CES
Web Presentation Services			
Web Services for Remote Portlets Specification	OASIS wsrp-specification-2.0	BSP	NCIA/CES
Information Discovery Services			
OpenSearch 1.1	Opensearch OpenSearch 1.1 Draft 4	BSP	NCIA/CES
Information Access Services			
MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)	IETF RFC 2557	BSP	NCIA/CES
A Standards Based Approach for Geo-enabling RSS feeds, v1.0	OGC 06-050r3	BSP	NCIA/AWG
XForms 1.0	W3C REC-xforms-20031014	BSP	NCIA/CES
Metadata Repository Services			
Web Services Metadata Exchange (WS-MetadataExchange)	W3C REC-ws-metadata-exchange-20111213	BSP	NCIA/CES
Choreography Services			
W3C Web Service Choreography Interface version 1.0	W3C NOTE-wsci-20020808	BSP	NCIA/CES
Mediation Services			
Services to forward Friendly Force Information to Weapon Delivery Assets - ADatP-37 Edition A	NSO STANAG 5528 (RD) Ed 1	BSP	C3B, CaP2
Data Format Transformation Services			
XML Query Language (XQuery)	W3C WD-xquery-20030502	BSP	NCIA/CES

Title	Pubnum	Profiles	Responsible Party
Infrastructure Services			
Real Time Control Protocol (RTCP) attribute in Session Description Protocol (SDP)	IETF RFC 3605	BSP	NCIA/NSII
The Secure Real-time Transport Protocol (SRTP)	IETF RFC 3711	BSP	FMN CPWG
NATO Imagery Interpretability Rating Scale (NIIRS) - AIntP-7 Edition A	NSO STANAG 7194 (Study) Ed 2	BSP	MC, MCJSB, JINT JISRP
Distributed File System (DFS) DCE DFS	Open Group F209a	BSP	NCIA/CES
Infrastructure Networking Services			
Default Address Selection for Internet Protocol version 6 (IPv6)	IETF RFC 6724	BSP	NCIA
Very high speed digital subscriber line transceivers 2 (VDSL2)	ITU-T G. 993-2	BSP	NCIA/NSII
Server Message Block (SMB)	Microsoft MS-SMB - 20130118	BSP	NCIA/CES
X/Open Network File System (C702 Protocols for Inter-working: XNFS, Version 3W)	Open Group C702	BSP	NCIA/CES
DCE 1.1: Remote Procedure Call	Open Group C706	BSP	NCIA/CES
Host Configuration Services			
Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	IETF RFC 3315	BSP	NCIA/NSII
IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6	IETF RFC 3633	BSP	NCIA/NSII
Data Transfer Services			
FTP Extensions for IPv6 and NATs	IETF RFC 2428	BSP	NCIA/NSII
Domain Name Services			
DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	IETF RFC 3646	BSP	NCIA/NSII
Network Information Service (NIS) Configuration Options for DHCPv6	IETF RFC 3898	BSP	NCIA/NSII

Title	Pubnum	Profiles	Responsible Party
A Method for Storing IPsec Keying Material in DNS	IETF RFC 4025	BSP	NCIA/CS
Multicast DNS	IETF RFC 6762	BSP	NCIA/NSII
Distributed Time Services			
DCE 1.1: Time Services	Open Group C310	BSP	NCIA/CES

¹STANAG 7149 Ed 6/APP-11 Edition D v2 - APP-11 ed D ver 2 should be noted as an emerging standard that will extend the message formats in APP-11(D)(1) with new Urgent Operational Requirements, this version will be available from early 2017.

²mil-std 6017C - Except Annex B, List of Geographical Data Field Identifiers (DFIs)

1.3.3. Communications Services

Title	Pubnum	Profiles	Responsible Party
Communications Services			
Ultra-Wide Band	ECMA 368	BSP	NCIA/NSII
Broadband Radio Access Networks (BRAN) HiperMAN	ETSI TS 102 624-1	BSP	NCIA/NSII
ZigBee	IEEE 802.15.4	BSP	NCIA/NSII
Mobile WiMax	IEEE 802.16e	BSP	NCIA/NSII
Wireless Broadband	IEEE 802.16e	BSP	NCIA/NSII
Multiple Spanning Trees	IEEE 802.1S	BSP	NCIA/NSII
Mobile Broadband Wireless Access (Draft)	IEEE 802.20	BSP	NCIA/NSII
Dynamic Source Routing (DSR) Draft- version 1.0	IETF draft-ietf-manet-dsr-09	BSP	NCIA/NSII
Ad-hoc On-Demand Distance Vector Routing (AODV)	IETF RFC 3561	BSP	NCIA/NSII
IPv6 over Low Power Wireless Personal Area Networks	IETF RFC 4919	BSP	NCIA/NSII
Technical Standards for an Automatic Radio Control System (ARCS) for HF Communication Links	NSO-Expected STANAG 4538 Ed 2	BSP	Blos Comms
Interoperability Standard for Satellite SHF Deployable Terminals Control and Command Services	NSO STANAG 4706 (RD) Ed 1	BSP	SATCOM CaT

Title	Pubnum	Profiles	Responsible Party
Common Alerting Protocol Version 1.2	OASIS CAP 1.2	BSP	NCIA/Sstrat/Sea
The Open Grid Services Architecture (OGSA) version 1.5	OGF draft-ogf-ogsa-spec-1.5-011	BSP	NCIA/CES
Wireless USB Specification	USB.ORG wusb	BSP	NCIA/CES
Communications Access Services			
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A	NSO-Expected STANAG 4175 Ed 6	BSP	C3B TDL CaT
Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability - AEP-84 Edition A	NSO STANAG 4586 (Study) Ed 4	BSP	CNAD, AC/141 NNAG, JCGUAS
Tactical Data Exchange - Link 11/11B	NSO-Expected STANAG 5511 Ed 10 / ATDLP-5.11(B)	BSP	C3B TDL CaT
3GPP UMTS Series	3GPP	BSP	NCIA/NSII
Tactical Messaging Access Services			
Technical Characteristics of the Multifunctional Information Distribution System (MIDS) - VOL I & VOL II - ATDLP-1.75 Edition A	NSO-Expected STANAG 4175 Ed 6	BSP	C3B TDL CaT
Tactical Data Exchange - Link 11/11B	NSO-Expected STANAG 5511 Ed 10 / ATDLP-5.11(B)	BSP	C3B TDL CaT
NATO Bit-Oriented Message (BOM) Tactical Data Exchange - Link 16 - ATDLP-5.16 Edition B	NSO-Expected STANAG 5516 Ed 8 / ATDLP-5.16(B)	BSP	C3B TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP) - ATDLP-5.18 Edition A	NSO STANAG 5518 (RD) Ed 2 / ATDLP-5.18(A)	BSP	C3B TDL CaT
Standard for Joint Range Extension Application Protocol (JREAP) - ATDLP-5.18 Edition B	NSO STANAG 5518 (RD) Ed 3 / ATDLP-5.18(B)	BSP	C3B TDL CaT
Standards for Data Forwarding between Tactical Data Systems	NSO-Expected STANAG 5616 Ed 7	BSP	C3B TDL CaT

Title	Pubnum	Profiles	Responsible Party
IPv4 Routed Access Services			
IP QoS for the NII	NATO TN-1417	BSP	N&S CaT
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NSO STANAG 4711 (RD) Ed 1	BSP	N&S CaT
IPv6 Routed Access Services			
IP QoS for the NII	NATO TN-1417	BSP	N&S CaT
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NSO STANAG 4711 (RD) Ed 1	BSP	N&S CaT
Transport Services			
Routing Information Protocol next generation for IPv6 (RIPng)	IETF RFC 2080	BSP	NCIA/NSII
IP Version 6 over PPP	IETF RFC 2472	BSP	NCIA/NSII
Generic Packet Tunneling in IPv6	IETF RFC 2473	BSP	NCIA/NSII
Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing	IETF RFC 2545	BSP	AMN TMO
Stateless IP/ICMP Translation Algorithm (SIIT)	IETF RFC 2765	BSP	NCIA/NSII
Mobility Support in IPv6	IETF RFC 3775	BSP	NCIA/NSII
Using IPsec to Protect Mobile IPv6 Signaling Between Mobile Nodes and Home Agents	IETF RFC 3776	BSP	NCIA/CS
Border Gateway Multicast Protocol (BGMP)	IETF RFC 3913	BSP	NCIA/NSII
Protocol Independent Multicasting Dense Mode (PIM-DM)	IETF RFC 3973	BSP	NCIA/NSII
Mobile IPv6 Fast Handovers	IETF RFC 5568	BSP	NCIA/NSII
Simplified Multicast Forwarding (SMF)	IETF RFC 6621	BSP	NCIA/NSII
BGP Support for Four-Octet Autonomous System (AS) Number Space	IETF RFC 6793	BSP	FMN CPWG
IP QoS for the NII	NATO TN-1417	BSP	N&S CaT
Packet-based Transport Services			

Title	Pubnum	Profiles	Responsible Party
Mobile IPv6 Support for Dual Stack Hosts and Routers	IETF RFC 5555	BSP	NCIA/NSII
IP QoS for the NII	NATO TN-1417	BSP	N&S CaT
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NSO STANAG 4711 (RD) Ed 1	BSP	N&S CaT
Packet Routing Services			
IP QoS for the NII	NATO TN-1417	BSP	N&S CaT
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NSO STANAG 4711 (RD) Ed 1	BSP	N&S CaT
Standard for Interconnection of IPv4 Networks at Mission Secret and Unclassified Security Levels	NSO-Expected STANAG 5067 Ed 2	BSP	N&S CaT
Packet-based Aggregation Services			
IP QoS for the NII	NATO TN-1417	BSP	N&S CaT
Interoperability Point Quality of Service (IP QoS) - AComP-4711 Edition A	NSO STANAG 4711 (RD) Ed 1	BSP	N&S CaT
Wireless LOS Mobile Transmission Services			
Bluetooth Core Specification v5.0	Bluetooth SIG Core Version 5.0	BSP	NCIA/NSII
Wireless LOS Mobile Narrowband Transmission Services			
Voice Coding Algorithm	NSO STANAG 4444 Ed 2	BSP	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	NSO-Expected STANAG 4175 Ed 6	BSP	C3B TDL CaT

1.4. UNASSIGNED STANDARDS

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

Title	Pubnum	Profiles	Responsible Party
Undefined Taxonomy Node			
Biometric data interchange formats -- Part 14: DNA Data	ISO/IEC 19794-6	BSP	NCIA
Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference	ISO/IEC 29500-1	BSP	C3B DM CaT
Office Open XML File Formats -- Part 3: Markup Compatibility and Extensibility	ISO/IEC 29500-3	BSP	C3B DM CaT
Office Open XML File Formats -- Part 4: Transitional Migration Features	ISO/IEC 29500-4	BSP	C3B DM CaT
Multi-Link Standard Operating Procedures for Tactical Data Systems Employing Link 11, Link 11B, Link 16, IJMS, Link 22 and JREAP	NSO-Expected ATDLP-7.33(A)(1)	BSP	C3B TDL CaT
NATO Qualification Levels for Tactical Data Link Personnel - ATDLP-5.55 Edition A	NSO STANAG 5555 Ed 1	BSP	C3B TDL CaT
Service Oriented Architecture Modeling Language (SOAML), Version 1.0.1	OMG formal-2012-05-10	BSP	NCIA
Trouble Ticket REST API Specification R14.5.1 Interface	TM-FORUM TMF621	BSP	FMN CPWG
Product Ordering API REST Specification R14.5.1 Interface	TM-FORUM TMF622	BSP	FMN CPWG
API REST Conformance Guidelines R15.5.1 Standard	TM-FORUM TR250	BSP	FMN CPWG

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