



DNS RESEARCH FEDERATION

Internet Standards Tracker

rasprg IETF 119

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Wednesday March 20, 2024

Standards Tracker

- Follow up from the presentation at IETF 118
 - Internet Standards Observatory
 - Standards Tracker for ITU
- Today
 - Recap
 - IETF Tracker
 - Feedback from Prague

The Internet Standards Observatory (ISTO)

- Funded by ISOC Foundation and RIPE Community Fund
- The goal of the Internet Standards Observatory is to prevent Internet fragmentation.
- Identify standards proposals that could potentially challenge interoperability and significantly transform addressing, naming, networking and routing on the Internet.

Why Tracking Internet Standards?

- SDOs are an opportunity to make the Internet better!
 - Discuss Internet standards in the right fora
 - Encourage thorough discussions about how we want the Internet to evolve
 - Lower barriers to engagement

The Standards Tracker

What is the Standards Tracker

- Tool to automate the identification of standards proposals by topics of interest
 - Input standards proposals into DAP
 - Scan for specific sets of words
 - Scoring to enable prioritization: 1. engage, 2.monitor and 3. track
- Focus on standards under development: ITU-T, IETF, and ETSI (up-next)

TRACKER

Internet Standards Observatory (ISTO) Tracker

Internet Standards Observatory Tracker Projects

Review the tables, below. Click to explore each tracker.

ITU-T

Tracking voluntary standards
development at the ITU
Telecommunication Standardisation
Sector.

IETF

Tracking internet standards
development by the Internet Engineering
Task Force.

32 Contributions

- March 2023 (10)
- October 2023 (9)
- March 2024 (13)

Priority level ▼

New Work Item ▼


Proponents ▼

About ▼


Proposal for standardisation ▼

Proposed use cases ▼


ITU-T Tracker



SG13
Future networks



SG16
Multimedia & digital technologies



SG17
Security

Priority	Item	About
Engage new	Proposal to initiate a new work item on "Fixed, mobile and satellite conve...	high bandwidth intelligent vehicle ...
Engage new	Proposal for initiating a new work item on "Requirements and functional ...	low latency ...
Engage new	Proposal to initiate a new work item on "Fixed, mobile and satellite conve...	intelligent vehicle remote healthcare ...
Monitor new	Proposal for initiating a new work item on requirements and functional fr...	user plane
Monitor	ITU-T Y.ICN-SEAN: Proposal for modification of clause 2, 7, 8 and 10	control plane user plane ...
Monitor new	Proposal for initiating a new work item on requirements and functional fr...	user plane
Monitor	ITU-T Y.ICN-INP: Proposal for modification of clause 9	user plane low latency ...
Monitor	ITU-T Y.ICN-UP: Proposal for Modification of clause 7	data plane low latency user plane ...
Monitor	Proposal for improving the whole document of ITU-T Y.Mec-INSA and su...	data plane network convergence ...
Monitor new	Proposal to initiate a new work item on framework of computing and net...	multi access edge computing ...
Monitor	Propose to modify clause 3,4, 5,6,7 description of draft recommendation ...	control plane data plane ...

5 Contributions

- March 2023 (6)
- October 2023 (2)
- March 2024 (5)

Priority level

- Monitor (5)

New Work Item

Proponents

About


Proposal for standardisation

Proposed use cases


ITU-T Tracker



SG13
Future networks



SG16
Multimedia & digital technologies



SG17
Security

Priority	Item	About
Monitor new	Proposal to initiate a new work item on "Fixed, mobile and satellite conve...	data plane remote healthcare ...
Monitor new	Proposal for new work item: Requirements and functional architecture of...	blockchain control plane ...
Monitor new	Propose to initiate a new work item on "Information sharing framework o...	qos assurance low latency ...
	<p>Item: Propose to initiate a new work item on "Information sharing framework of computing and networking coordination based on identifier resolution"</p> <p>Proponent: China Unicom, Ministry of Industry and Information Technology (MIIT) (China), Beijing University of Posts and Telecommunications (China)</p> <p>About: qos assurance low latency network convergence</p> <p>Proposed for standardisation: CNC computing and network convergence</p> <p>Proposed use cases: fmssc</p> <p>New work item: new</p>	
Monitor new	Proposal for initiating a new work item on Information-centric networkin...	control plane data plane user plane
Monitor new	Proposal to create a new work item "Network 2030 – Architecture Frame...	low latency ...

5 Contributions

- March 2023 (6)
- October 2023 (2)
- March 2024 (5)

Priority level

New Work Item

- No (8)
- Yes (5)

Proponents

About

Proposal for standardisation

Proposed use cases

ITU-T Tracker

Search study group



Future networks



Multimedia & digital technologies



Security

Priority	Item	About
Monitor new	Proposal to initiate a new work item on "Fixed, mobile and satellite conve...	data plane remote healthcare ...
Monitor new	Proposal for new work item: Requirements and functional architecture of...	blockchain control plane ...
Monitor new	Propose to initiate a new work item on "Information sharing framework o...	qos assurance low latency ...
Monitor new	Proposal for initiating a new work item on Information-centric networkin...	control plane data plane user plane
Monitor new	Proposal to create a new work item "Network 2030 – Architecture Frame...	low latency ...

6 Contributions

- March 2023 (1)
- October 2023 (2)
- March 2024 (3)

Priority level ▼

New Work Item ▼

Proponents ▼

About ▼


Proposal for standardisation ▼

Proposed use cases ▲


- industrial control (2)
- intelligent agriculture (1)
- remote surgery (3)
- vr (8)
- vr games (2)
- ar (6)
- augmented reality (4)
- virtual reality (4)
- industrial internet (9)
- xr (9)
- extended reality (6)

ITU-T Tracker


Search study group



SG13
Future networks



SG16
Multimedia & digital technologies



SG17
Security

Priority	Item	About
Monitor new	Proposal for initiating a new work item on requirements and functional fr...	user plane ▼
Monitor	Propose to modify clause 3,4, 5,6,7 description of draft recommendation ...	control plane data plane ... ▼
Monitor	Proposal to consent Y.IMT2020-CNC-req	qos assurance qos monitoring ... ▼
Monitor	Y. bDDN-NP-ReqArch: Propose to update all clause description and to su...	control plane low latency ... ▼
Monitor new	Proposal to initiate a new work item on "Fixed, mobile and satellite conve...	data plane remote healthcare ... ▼
Monitor new	Proposal to create a new work item "Network 2030 – Architecture Frame...	low latency ... ▼



TRACKER

Internet Standards Observatory (ISTO) Tracker

Internet Standards Observatory Tracker Projects

Review the tables, below. Click to explore each tracker.

ITU-T

Tracking voluntary standards development at the ITU Telecommunication Standardisation Sector.

IETF

Tracking internet standards development by the Internet Engineering Task Force.

14 Contributions

- All (618)
- Engage (2)
- Monitor (12)
- Track (25)

Where the standard is being discussed

Area ▼

Where on the agenda ▼

Group acronym ▼

Type ▼

What the standard is about

About ▼

Proposed for standardisation ▼

Proposed use case ▼

Standard status

State ▼

IANA action state ▼

IANA review state ▼

IESG state ▼

Intended standard level ▼

Workgroup family ▼

New IETF meetings are added one week before the meeting starts. Standards proposals are scrapped from the meeting agenda. Leading up to a new event, the list of standards under discussion will be updated daily at midnight GMT until day the meeting concludes.

IETF Tracker

Search active meeting



Priority	Item	About
Engage active	Requirements for Scaling Deterministic Networks	identification and packet treatment ... ▼
Engage	Use Cases and Problem Statement for Routing on Service Addresses	quality of service service instance ... ▼
Monitor	Computing-Aware Traffic Steering (CATS) Problem Statement, Use Case...	service instance quality of service ... ▼
Monitor	Routing Framework for LEO Mega-constellation Based on Region Division	end to end control plane ... ▼
Monitor active	Computing and Network Information Awareness (CNIA) system architec...	service instance service id ... ▼
Monitor active	Problem statements and requirements of L2 CATS	networking and computing ... ▼
Monitor active	Challenges and Opportunities in Management for Green Networking	steer traffic data plane end to end ... ▼
Monitor active	Deterministic Networking (DetNet) Controller Plane - VPFC Planning Info...	resources reservation calculation ... ▼
Monitor	On Network Path Validation	service function chaining ... ▼
Monitor	On Network Path Validation	service function chaining ... ▼
Monitor active	Traffic Engineering Extensions for Enhanced DetNet	steer traffic latency jitter ... ▼
Monitor active	Problem Statement and Requirements of end-to-end CATS	computing resource ... ▼
Monitor active	Computing Information Description in Computing-Aware Traffic Steering	computing and networking ... ▼
Monitor active	Using Deterministic Networks for Industrial Operations and Control	compute capabilities control plane ... ▼

2 Contributions

 All (9) Track (2)

Where the standard is being discussed

Area Where on the agenda Group acronym Type

What the standard is about

About Proposed for standardisation Proposed use case

Standard status

State IANA action state IANA review state IESG state Intended standard level Workgroup family

New IETF meetings are added one week before the meeting starts. Standards proposals are scrapped from the meeting agenda. Leading up to a new event, the list of standards under discussion will be updated daily at midnight GMT until day the meeting concludes.

IETF Tracker

556

IETF119

687

IETF118

618

IETF117

657

IETF116

600

IETF115



Priority Item About

Track active BGP Blockchain smart contract distributed ledger ...

Item: BGP Blockchain

Priority level: Track

WHERE THE STANDARD IS BEING DISCUSSED

Area: Routing AreaWhere on the agenda: Routing Area Working GroupGroup acronym: rtwgwType: WG

WHAT THE STANDARD IS ABOUT

About: smart contract distributed ledger distributed consensus systems control plane blockchainProposed for standardisation: traffic steeringProposed use cases: traffic steering decisions

STANDARD STATUS

State: Active

IANA action state: -

IANA review state: -

IESG state: I-D Exists

Intended standard level: -

Workgroup family: Individual Submissions

2 Contributions

All (687)

Track (2)

Where the standard is being discussed

Area ▼

Where on the agenda ▼

Group acronym ▼

Type ▼

What the standard is about

About ▼

Proposed for standardisation ▼

Proposed use case ▲

industrial control systems (2)

low earth orbit (1)

industrial control networks (1)

metaverse (2)

network digital twin (4)

traffic steering decisions (3)

Standard status

State ▼

IETF Tracker

Search active meeting



IETF118



IETF117



IETF116



IETF115



Priority	Item	About
Track	active Encoding 3GPP Slices for Interactive Media Services	ultra low latency end to end ... ▼
Track	active Application-aware Networking (APN) for Performance Enhancement of ...	end to end edge devices ... ▼

4 Contributions

All (4)

Where the standard is being discussed

Area

Where on the agenda

SIDR Operations (4)

Group acronym

Type

What the standard is about

About

Proposed for standardisation

Proposed use case

Standard status

State

IANA action state

IANA review state

IESG state

Intended standard level

Workgroup family

New IETF meetings are added one week before the meeting starts. Standards proposals are scrapped from the meeting agenda. Leading up to a new event, the list of standards under discussion will be updated daily at midnight GMT until day the meeting concludes.

IETF Tracker

RPKI



Priority	Item	About
active	A profile for Signed Prefix Lists for Use in the Resource Public Key Infras...	<input type="button" value="v"/>
active	RPKI Validation Re-reconsidered	<input type="button" value="v"/>
active	RPKI Manifest Number Handling	<input type="button" value="v"/>
active	Selective Synchronization for RPKI to Router Protocol	<input type="button" value="v"/>

The Backend of the Standards Tracker

Document Input

DAP Standards Study Group 13 ITU

Document Upload

INPUTS

- Document Upload
- Document Data

ANALYSIS

- Stored Queries
- Snapshots

OUTPUTS

- Dashboards
- API Connections
- API Keys

Document Datasource

Upload your documents using the form below.

SETTINGS Adjust the rules around how the uploaded documents will be processed.

Title
Enter the name to identify this data source

Upload Documents
The documents to be processed.

Select file(s) to upload or drag and drop
.docx, .txt, .pdf, .zip

Custom Document Parser
Use a custom document parser to process the documents.

Select Custom Document Parser
Search for a custom parser
Start typing name to view available parsers

Indexing
Set whether you want the content of the documents to be indexed

Index Document Content

Storage Options
Securely save an original copy of the document and/or its original text.

Store Original File
 Store Document Text

Cancel Create Datasource

Dictionaries

Data Explorer

Document Data Data Explorer

OPERATIONS | columns formula join parameters summarise filter reload

word
blockchain
control plane
Data plane
Digital Object Architecture
distributed ledger platform
distributed ledger system
distributed ledger technologies
distributed ledger technology
forwarding plane
guaranteed delivery
heterogeneous networks
hierarchical IP address allocation
high bandwidth
high throughput
identity service provider
intelligent vehicle
low latency
Metaverse
multi access edge computing
negligible latency
network convergence
network status information

Showing 1 - 35 1000 < >

Cancel Export Data Save & Exit



Scoring Configuration

Data Explorer

Document Data > Data Explorer

OPERATIONS | columns formula join parameters summarise filter reload

Config	Standardisation Word Weighting	Max Standardisation Words	Max Standardisation Frequency	About Word Weighting	About Max Words	Max About Words Frequency	Use Case Weighting	Has Use Case Weighting	Max Use Case
1	50	8	75	15	5	50	20	10	5

The Standards Tracker - Feedback from Prague

- Questions on methodology
 - Meaning of track, monitor and engage + color-coding
 - Access to dictionaries
 - Option to broaden the search
 - Importance of understanding status + whether engagement adds value
- What we did
 - New section explaining methodology
 - Dictionaries are open + visible through filtering
 - Enabled search box
 - Status of proposal

The Standards Tracker - Next Steps

- Technical-side
 - Improve search box
 - Test AI-powered semantic analysis
 - IETF hackathon
- Content-side
 - Expand topic coverage: focus on emerging technologies (metaverse, quantum, network trust, other)
 - Expand SGs (ITU)
 - ETSI

Resources - ISTO Knowledge Center (Blog)

INTERNET STANDARDS OBSERVATORY (ISTO)

Without a LEG to Stand On

23rd February 2024

IETF, DNS



By Mark McFadden >

Latest posts here

Without a LEG to Stand On

23rd February 2024

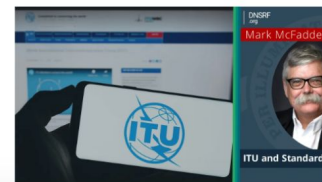
What's up at the ITU?

8th February 2024

Web3 Disruption and the Domain Name System - now published in the Journal of Cyber Policy as part of the DNSRF Special Issue

17th January 2024

Related

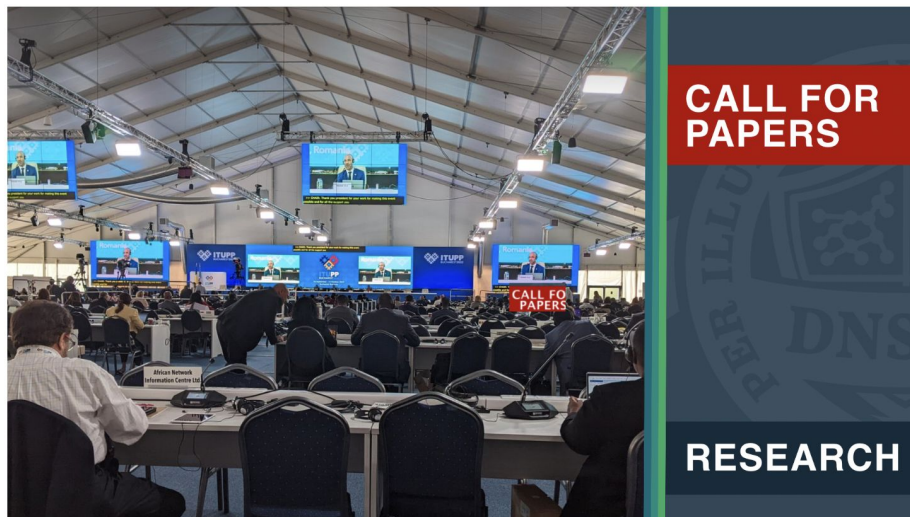


Resources - ISTO Knowledge Center (Research)

Call for Papers: Technical Standards for a Global Internet

28th June 2023

Research, Technical Standards



The RIPE Network Coordination Centre ("RIPE NCC"). All rights reserved. Image used under license from the RIPE NCC.
<https://www.ripe.net/>

Resources - ISTO Knowledge Center (Research)

- “QUIC, or the battle that never was: a case of re-infrastructuring control over Internet traffic.” Clement Peranaud & Francesca Musiani, Free University of Brussels (VUB) & French National Centre for Scientific Research (CNRS)
- “Understanding Internet Standardisation Processes through Longitudinal Data-driven Analysis.” Ignacio Castro - Queen Mary University of London.
- “Corporate influence in Standards Bodies.” Nick Merrill - University of California, Berkeley
- “Internet Standards: Measuring the Impact of SDO Policies and Working Practices” Stephen McQuistin - University of St Andrews, UK