

APN进展 & IETF ART域 DISPATCH工作组介绍

彭书萍

IETF ART Area DISPATCH WG Co-Chair
IETF RTG Area SPRING WG Secretary
IETF RTG Area Directorate Member
IETF ART Area Review Team (artart) Member
CCSA TC3WG2 副组长

网络能力迅速提升，对业务的感知能力变得极为迫切

- 不断涌现的新型业务/应用的差异化需求明显
 - 大带宽、超低时延/确定性时延、超高可靠性、安全性
- 网络不断创新促使网络能力迅速提升
 - IPv6+整个技术体系使能网络差异化服务能力
- 网络运营商需要准确地感知业务的特征和需求
 - IETF APN Proposed WG <https://datatracker.ietf.org/wg/apn/about/>
 - CCSA APN6国标，系列行标（架构、数据面）

APN工作组正在讨论Charter

<https://datatracker.ietf.org/wg/apn/about/>

始于2019年3月...

- 共发布文稿17篇
- 2次APN Side meeting
- 3次联合Hackathons
- 4次BoF申请
- 1次RTG域专题中期会议
- 1次WG-Forming BoF
- 获得来自中国、北美、欧洲等多家运营商和行业伙伴支持
- 成功吸引来自IETF 7个工作域的220+专家 (10+IAB、20+工作组主席) 参与BoF讨论, 获得广泛关注, 展现中国通信创新引领能力
- 进入APN WG Charter讨论阶段

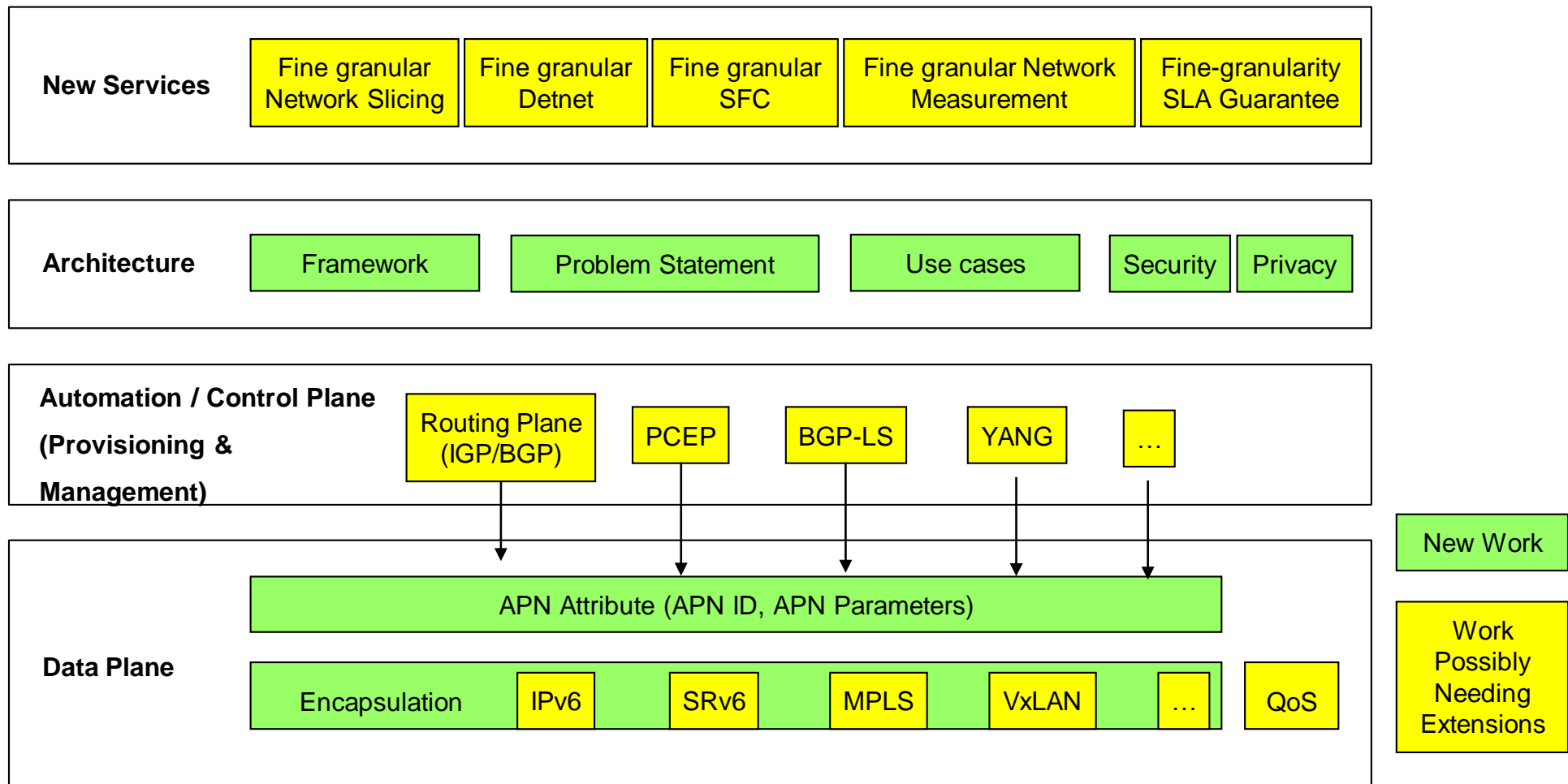
The screenshot shows the IETF Datatracker page for the Application-aware Networking (apn) Working Group. The page is titled "Application-aware Networking (apn)" and is marked as a "Proposed WG". The page includes a navigation menu with "About", "Documents", "Meetings", "History", "Photos", "Email expansions", and "List archive". The main content is a table with the following information:

WG	Name	Application-aware Networking
	Acronym	apn
	Area	Routing Area (rtg)
	State	Proposed
	Charter	charter-ietf-apn-00-00 Start Chartering/Rechartering (Internal Steering Group/IAB Review)
	Document dependencies	Show
Personnel	Chairs	Donald E. Eastlake 3rd , Melchior Aelmans
	Area Director	Andrew Alston
Mailing list	Address	apn@ietf.org
	To subscribe	https://www.ietf.org/mailman/listinfo/apn
	Archive	https://mailarchive.ietf.org/arch/browse/apn/
Chat	Room address	https://zulip.ietf.org/#narrow/stream/apn

Charter for proposed Working Group

Application-aware Networking (APN) Working Group will develop a framework to provide fine-granularity services within the APN domain.

APN工作总览



- [draft-li-apn-framework](#)
- [draft-li-apn-header](#), [draft-li-apn-ipv6-encap](#)

IETF ART域 DISPATCH工作组介绍

IETF ART (Applications and Real-Time Area)

Group	Name	Chairs
asap	Automatic SIP trunking And Peering	Jean Mahoney, Gonzalo Salgueiro
asdf	A Semantic Definition Format for Data and Interactions of Things	Michael Richardson, Niklas Widell
avtcore	Audio/Video Transport Core Maintenance	Dr. Bernard D. Aboba, Jonathan Lennox
calext	Calendaring Extensions	Bron Gondwana, Daniel Migault
cbor	Concise Binary Object Representation Maintenance and Extensions	Christian Amsüss, Barry Leiba
cdni	Content Delivery Networks Interconnection	Kevin J. Ma, Sanjay Mishra
cellar	Codec Encoding for LossLess Archiving and Realtime transmission	Spencer Dawkins, Michael Richardson
core	Constrained RESTful Environments	Carsten Bormann, Jaime Jimenez, Marco Tiloca
dispatch	Dispatch	Kirsty Paine, Shuping Peng
dmarc	Domain-based Message Authentication, Reporting & Conformance	Seth Blank, Barry Leiba
ecrit	Emergency Context Resolution with Internet Technologies	Randall Gellens, Allison Mankin, Roger Marshall
emailcore	Revision of core Email specifications	Todd Herr, Alexey Melnikov
extra	Email mailstore and eXtensions To Revise or Amend	Bron Gondwana, Jiankang Yao
httpapi	Building Blocks for HTTP APIs	Darrel Miller, Rich Salz
httpbis	HTTP	Mark Nottingham, Tommy Pauly
jmap	JSON Mail Access Protocol	Jim Fenton, Bron Gondwana
jsonpath	JSON Path	Tim Bray, James Gruessing
mediaman	Media Type Maintenance	Harald T. Alvestrand
mmusic	Multiparty Multimedia Session Control	Flemming Andreasen, Bo Burman
regext	Registration Protocols Extensions	James Galvin, Antoin Verschuren
rtcweb	Real-Time Communication in WEB-browsers	Ted Hardie, Sean Turner
rum	Relay User Machine	Paul Kyzivat, Brian Rosen
scim	System for Cross-domain Identity Management	Nancy Cam-Winget, Aaron Parecki (Assigned AD: Roman Danyliw)
sedate	Serialising Extended Data About Times and Events	Bron Gondwana, Mark McFadden
sframe	Secure Media Frames	Bobo Bose-Kolanu, Martin Thomson
sipcore	Session Initiation Protocol Core	Jean Mahoney, Brian Rosen
stir	Secure Telephone Identity Revisited	Ben Campbell, Russ Housley, Robert Sparks
uta	Using TLS in Applications	Leif Johansson, Valery Smyslov
webtrans	WebTransport	Dr. Bernard D. Aboba, David Schinazi
wish	WebRTC Ingest Signaling over HTTPS	Nils Ohlmeier, Sean Turner
wpack	Web Packaging	David C Lawrence, Sean Turner



ART DISPATCH WG 做什么?

- ART: Applications and Real-Time Area
- DISPATCH (派遣) WG – ART域的创新枢纽
- The Dispatch working group is chartered to consider proposals for **new** work in the ART area and identify, or help create, an appropriate venue for the work.
- A **major objective** of the DISPATCH WG is to provide timely, clear dispositions of new efforts.
- Options for handling new work include:
 - Directing the work to an existing WG.
 - Developing a proposal for a BOF.
 - Developing a charter for a new WG.
 - Making recommendations that documents be AD-sponsored (which ADs may or may not choose to follow).
 - By agreement with ART ADs, processing simple administrative documents.
 - Deferring the decision for the new work.
 - Rejecting the new work.
- Joint with ART
 - 开放
 - 积极关注其他域动态

DISPATCH WG
(ARTAREA)



RTG WG
+
RTG AREA

ART DISPATCH WG 最近热点?

DISPATCH

- 0520-0550 -- The 'haptics' Top-level Media Type (Yeshwant)
- 0550-0620 -- WebRTC-HTTP ingestion protocol (Sergio)

ART Area

- 0620-0630 -- BoF and other meetings of interest (chairs)
- 0630-0700 -- IANA Registration of Content-Type Header Field Parameter (Bernie/Alexey)

- 2025-2030 -- FFV1 v4 - new codec spec from CELLAR WG (Michael Richardson)
- 2030-2040 -- IPv6 Zone Identifiers in URIs (RFC6874bis) (Brian Carpenter) **INT IPv6设计在DISPATCH宣讲**
- 2040-2050 -- Reliable (unreliable) streaming protocol (Kirill Pugin)

Meetings of Interest

- BoFs:
 - Tues 1900 UTC DANE Authentication for IoT Service Hardening (DANISH)
 - Tues 2300 UTC Oblivious HTTP (ohhttp)
 - Weds 1900 UTC MAC Address Device Identification for Network and Application Services (MADINAS)
 - Thurs 2030 UTC SCIM Industry Next Steps (SINS)
 - Fri 1900 UTC **Application-aware Networking (APN)**
- New ART WGs: **APN BoF 被ART域宣传**
 - Tues 1900 UTC Serialising Extended Data About Times and Events (SEDATE)

DISPATCH Agenda

- **Status and Agenda Bash** (10 min) - Chairs and ADs
- **Complaint Feedback Loop Address Header** (20 min) - Jan-Philipp Benecke
- **Open Ethics Transparency Protocol** (20 min) - Nikita Lukianets
- **A well-known URI for publishing ECHConfigList values** (20 mins) - Stephen Farrell
- **Updated Use of the Expires Message Header Field** (10 mins) - John Levine
- **Inside MLS Message Interop (IMMI)** (10 mins) - Rohan Mahy

DISPATCH Outcome:
Possible new WG

DISPATCH Outcome:
WG-forming BoF

Meetings of interest (local time)

BoFs:

- **Tues 10:00:** Computing-Aware Networking (**can**)
- **Weds 10:00:** Media Over QUIC (**moq**)
- **Thurs 10:00:** Source Address Validation in Intra-domain and Inter-domain Networks (**savnet**)

ART域也在关注网络的新动态 (CAN, SAVNET)

IETF109

IETF111

IETF113

IETF110

IETF112

IETF114

DISPATCH Meeting

Date and Time on the Internet (20 min)

Presenter: Ujjwal Sharma

On Media-Types, Content-Types, and related terminology (20 min)

Presenter: Carsten Bormann

HTTP content negotiation using profiles (10 min)

Presenter: Lars G. Svensson

ART AREA Meeting

APN: Application-aware Networking (20 min)

Presenter: Shuping Peng/Zhenbin Li **APN在DISPATCH宣讲**

qlog (logging for QUIC, HTTP/3 events and other protocols) (20 min)

Presenter: Robin Marx

SDP Mapping into HTTP structured headers (10 min)

Presenter: James Guessing

SIP Extensions for High Availability and Load Balancing for Public Cloud (10 min)

Presenter: Jonathan Rosenberg

Meetings of Interest (all times UTC)

BoFs:

- Weds 1600 **Privacy Respecting Incorporation of Values (PRIV)**

New and nearly-new ART WGs:

- Mon 14:30 **Oblivious HTTP Application Intermediation (OHAI)**
- Tues 1430 **Media Type Maintenance (MEDIAMAN)**
- Tues 1430 **Serialising Extended Data About Times and Events (SEDATE)**

- Planning two side meetings on "Media Over QUIC" at IETF 112
 - "Understand what's needed" from the IETF on Tuesday at 18:15 UTC
 - "Planning for next steps" (if needed) on Friday at 18:15 UTC

<https://datatracker.ietf.org/meeting/113/materials/minutes-113-dispatch-01.html>

<https://datatracker.ietf.org/meeting/114/session/dispatch>

<https://mailarchive.ietf.org/arch/browse/dispatch/?gbt=1&index=>

欢迎来DISPATCH WG 讨论和宣讲网络与应用的相关创新理念

Monday, November 7, 2022

09:30- Monday Session I
11:30

Kensington 1

art

[dispatch](#)

Dispatch

Joint with ARTAREA

相关链接:

[MeetEcho](#)

[Notes](#)

[Zulip](#)

DISPATCH WG Meeting Agenda

Status and Agenda Bash - Chairs and ADs (10 min)

vCon (20 min)

Presenter: Thomas Howe & Dan Petrie (in-person)

[draft-petrie-vcon](#)

[Messages](#)

[Mailing_list](#)

SASL Authentication for SIP (20 min)

Presenter: Rick van Rein

[draft-vanrein-sipauth-sasl](#)

[Messages](#)

DKIM replay (20 min)

Presenter: Wei Chuang

Four draft solutions to a common problem:

- [draft-chuang-dkim-replay-problem](#)
- [draft-chuang-replay-resistant-arc](#)
- [draft-gondwana-email-mailpath](#)
- [draft-bradshaw-envelope-validation-extension-dkim](#)
- [draft-kucherawy-dkim-anti-replay](#)
[Messages](#)

WebRTC-HTTP Egress Protocol (WHEP) (10 min)

Presenter: Sergio Garcia Murillo, Cheng Chen

[draft-murillo-whep](#)

[Messages](#)

ART AREA Meeting

BoFs, updates and meetings of interest - ADs (10 min)

NGI funding for Internet open-source activities (5-10 min)

Presenter: Stephen Farrell

Flextime & AOB (30 min)

Metaverse Side Meeting

- Here is the tentative agenda:
 - 1) Introduction - Giuseppe Fioccola - 5min
 - 2) QuicR and standardization of the metaverse - Cullen Jennings - 10min
 - 3) ICN and networking for distributed AR/VR - Dirk Kutscher - 10min
 - 4) Low Latency, Low Loss, Scalable Throughput (L4S) Internet Service - Koen De Schepper - 10 min
 - 5) Blockchain and metaverse - Mike McBride - 10min
 - 6) Network innovation and standardization for metaverse - Robin Li - 10min
 - 7) Open Discussion - 35min
- Monday November 7 from 8:00 AM GMT to 9:30 AM GMT at the Hilton London Metropole (Room Mezzanine 12)
- Remote attendance is also available (<https://welink.zhumu.com/j/131832648>)

Thank you!