

IETF 113 Path Computation Element (PCE) WG

Monday, March 21, 2022 (12:00-13:00 UTC)

Tuesday, March 22, 2022 (12:00-13:00 UTC)

Chairs

Julien Meuric (julien.meuric@orange.com)

Dhruv Dhody (dd@dhruvdhody.com)

Secretary

Hariharan Ananthakrishnan (hari@netflix.com)

This session is being recorded

IETF 113 Vienna
hosted by



Internet Engineering Task Force

© 2022 IETF Trust

Production by Meetecho



I E T F®

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/>(Privacy Policy)

This session is being recorded

IETF 113 Meeting Tips

In-person participants

- Make sure to sign into the session using the Meetecho (usually the “lite” client) from the Datatracker agenda
- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*

Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session
- Use of a headset is strongly recommended



Resources for IETF 113 Vienna

- Agenda
<https://datatracker.ietf.org/meeting/agenda>
- Meetecho and other information:
<https://www.ietf.org/how/meetings/113/preparation>
- If you need technical assistance, see the Reporting Issues page:
<http://www.ietf.org/how/meetings/issues/>

Reminder for the IETF Guidelines for Conduct

- IETF participants extend respect and courtesy to their colleagues at all times.
- IETF participants have impersonal discussions.
- IETF participants devise solutions for the global Internet that meet the needs of diverse technical and operational environments.
- Individuals are prepared to contribute to the ongoing work of the group
- Please keep these in mind both at the mic and on Jabber/Meetecho
- See BCP 54!

Administrivia

- Both Chairs are remote, Secretary is on ground!
- Minute taker(s), jabber scribe(s)
- Meetecho Etiquette
 - Join the queue (onsite/remote) if you would like to speak/present
 - Do not send audio directly
 - Please state your name before speaking
 - Be mindful of the agenda time
 - Longer discussion on mailing list (or jabber)
- Collaborative minutes
 - <https://notes.ietf.org/notes-ietf-113-pce>

Usual Reminders

- Please use the mailing list actively!
- Please be more vocal during WG business (WG LC, adoption, etc)!
- Use the WG wiki to track progress -
<https://trac.ietf.org/trac/pce/wiki/WikiStart>
- Request for early code point allocation when you are planning to interop!

Agenda Bashing

PCE Working Group Meeting – Session I

12:00-13:00 UTC Monday March 21 Afternoon session

Introduction

- 1.1. Administrivia, Agenda Bashing (Chairs, 5 min) [5/60]
- 1.2. WG Status (Chairs, 10 min) [15/60]
- 1.3. State of WG I-Ds and next steps (Chairs, 10 min) [25/60]

Stateful

- 2.1 Local Protection Enforcement (Andrew Stone, 10 mins) [35/60]
[draft-ietf-pce-local-protection-enforcement-04](#)
- 2.2 SR-MPLS Entropy Label Position (Quan Xiong, 10 mins) [45/60]
[draft-peng-pce-entropy-label-position-07](#)
- 2.3 IFIT (Giuseppe Fioccola, 10 mins) [55/60]
[draft-chen-pce-pcep-ifit-06](#)

PCE Working Group Meeting – Session II

12:00-13:00 UTC Tuesday March 22 Afternoon session

Segment Routing

- 3.1 Circuit Style Policies (Samuel Sidor, 10 mins) [10/60]
[draft-sidor-pce-circuit-style-pcep-extensions-00](#)
- 3.2 Circuit Style Segment Routing Policies (Christian Schmutzer, 10 mins) [20/60]
[draft-schmutzer-pce-cs-sr-policy-01](#)

Others

- 4.1 VLAN-based Traffic Forwarding (, 10 mins) [30/60]
[draft-wang-pce-vlan-based-traffic-forwarding-05](#)
- 4.2 Multicast Tree Setup (Huanan Li, 10 mins) [40/60]
[draft-li-pce-multicast-00](#)
- 4.3 PCECC for BIER (Ran Chen, 10 mins) [50/60]
[draft-chen-pce-pcep-extension-pce-controller-bier-03](#)

WG Status

Beyond the WG

- One new RFCs since IETF 112
 - RFC 9168 (FlowSpec)
- RFC Editor Queue
 - None
- With the AD/IESG
 - draft-ietf-pce-binding-label-sid
 - Changes made based on IESG review
 - DISCUSS are cleared

In the WG's Hands

- Errata
 - SR MPLS - RFC 8664 - Technical (Verified)
 - By Shuping Peng
 - Incorrect value for F bit
 - Same issue was pointed out in SRv6 (fixed now)
- Early IANA codepoint allocation
 - draft-ietf-pce-segment-routing-ipv6
 - Expires 2023-01-12
 - draft-ietf-pce-local-protection-enforcement
 - Renewed!
 - Expires 2023-01-28
 - draft-ietf-pce-segment-routing-policy-cp
 - Renewed!
 - Expires 2023-03-30
 - draft-ietf-pce-binding-label-sid
 - Renewed!
 - Expires 2023-03-30

Status of WG I-Ds & Next Steps

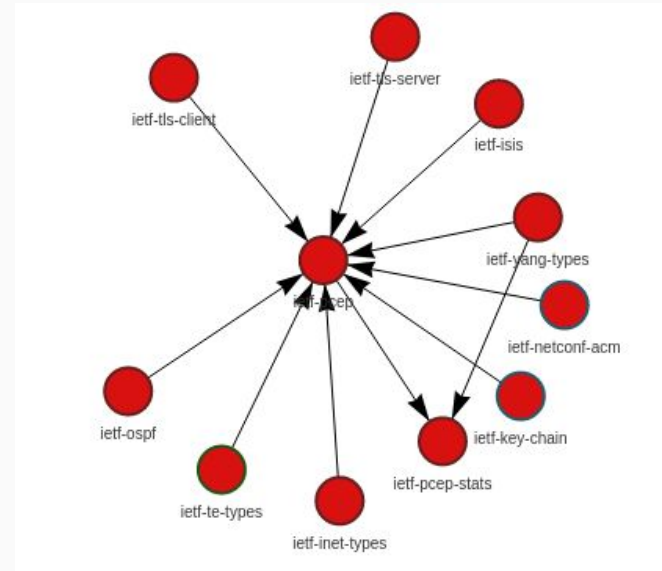
Post WG-LC

- **draft-ietf-pce-pcep-stateful-pce-gmpls**
 - Shepherd review done
 - Awaiting a document revision from authors
- **draft-ietf-pce-vn-association**
 - Comments received during WGLC
 - Awaiting a document revision from authors
 - Note the thread “ASCII in PCEP” in the mailing list

WG documents “nearing” WG LC

draft-ietf-pce-pcep-yang

- -18 posted on 2022-01-25
- Use of inet:ip-address-no-zone
- RPC statistics-reset is added
- Handled comments from
 - Tom Petch
 - Robert Varga
- YANG Doctor review is already requested



WG documents “nearing” WG LC

draft-ietf-pce-local-protection-enforcement

- -04 posted on 2022-01-30
- On the agenda!

draft-ietf-pce-segment-routing-ipv6

- -12 posted on 2022-03-06
- F bit error is fixed
- Description of SID Structure
- Order of the optional fields in the SRv6-ERO
- WGLC Next?

WG documents “nearing” WG LC

draft-ietf-pce-pcep-extension-native-ip

- -17 posted on 2022-02-06
- -18 posted on 2022-03-20
- Presented at IDR Interim
- Asked for comments on IDR list
 - Comments from Sue handled
 - Cross posting will be done for WG LC

draft-ietf-pce-flexible-grid

- -07 posted on 2022-03-07
 - No major technical change since a long time!
- Ready for WGLC

WG documents “nearing” WG LC

draft-ietf-pce-enhanced-errors

- -11 posted on 2022-03-07
 - No changes!
- No I-D currently using it
 - draft-ietf-pce-stateful-interdomain could!
- Is there still interest in this work?
- **Options:**
 - Progress this work as experimental
 - Would need reviewers to commit
 - Mark it as waiting for implementation
 - No feedback received

WG I-Ds

draft-ietf-pce-sr-path-segment

- -05 posted on 2022-02-13
- No technical change
- Align with changes for BSID
- Are there any other open issues?
- Nearing WG LC?

draft-ietf-pce-sr-bidir-path

- -09 posted on 2022-03-06
- No technical change
- Are there any open issues?
- Nearing WG LC?

WG I-Ds

draft-ietf-pce-segment-routing-policy-cp

- -06 posted on 2021-10-22
- No update since IETF 112

draft-ietf-pce-pcep-extension-pce-controller-sr

- -04 posted on 2022-03-06
- Minor updates

WG I-Ds

draft-ietf-pce-stateful-interdomain

- -03 posted on 2022-03-04
- Editorial changes only
- Question on using draft-ietf-pce-enhanced-errors

draft-ietf-pce-lsp-extended-flags

- -01 posted on 2021-10-18
- No recent changes
- Nearing WG LC?

WG I-Ds

draft-ietf-pce-multipath

- -04 posted on 2022-02-25
- Reverse Path Information added with I-flag (Informational) set
- Path ID = 0x0 reserved to indicate the absence of a Path ID
- Comments for 112
 - Add text about SR Bidirectional Association (it is mentioned only in example)

draft-ietf-pce-state-sync

- -01 posted on 2021-10-20
- No recent update

WG I-Ds

draft-ietf-pce-stateful-pce-option al

- -02 posted on 2021-10-23
- No recent update

draft-ietf-pce-sr-p2mp-policy

- -00 posted on 2021-12-08
- No update since adoption

Recently adopted documents

draft-ietf-pce-pcep-l2-flowspec

- -01 posted on 2022-03-06
- Aligned with RFC 9168 and FlowSpecv2

draft-ietf-pce-sid-algo

- -00 posted on 2022-02-22
- Comments received during WG adoption are pending

WG Adoption Poll Queue

- Refer
<https://trac.ietf.org/trac/pce/wiki/WikiStart#WGAdoptionCallQueue>
- draft-li-pce-pcep-pmtu
- draft-li-pce-pcep-srv6-yang
- draft-chen-pce-pcep-ifit
- draft-dhody-pce-pcep-extension-pce-controller-srv6
- ...

Thanks!

Backup!

Using the Mailing List

- Please use the mailing list actively to discuss all working group business
- Open issues with drafts should be discussed on the list, and conclusions reported to the list
- New drafts should be introduced to the working group first on the mailing list, to gauge interest
- Working group consensus is determined from the mailing list
- Priority in meetings is given to drafts that have been discussed on the list

Please be Vocal

- During WG Adoption and WG LC calls, response number is low.
- Please be vocal on the list to help us gauge the consensus better.
- The WG mailing lists are looked at by the IESG, IAB, and others (internal and external to IETF) to determine interest/participation level in our standards process.
- Please review ideas from your peers, these are community outputs of the working group as a whole.
- Also help flushing our queues faster
 - we had to extend the calls when response was lacking!

Using the Wiki

- A way to give you visibility as the document progress through the WG
 - adoption queue
 - WG LC queue
 - balancing work between chairs
 - shepherding responsibilities and opportunities
 - pending actions
 - IPR polls
- Use this wiki
 - make sure this is up to date!
- <https://trac.ietf.org/trac/pce/wiki/WikiStart>

Early Codepoint Allocation

- If you have an implementation of a WG I-D
 - that requires inter-operation with other implementations
 - Please request for early IANA codepoint allocation
 - Make sure to include an Implementation Status section in your I-D
 - Make sure the IANA section is correct and complete
 - And meets the condition set out in RFC 7120
- Maintained at
 - <https://trac.ietf.org/trac/pce/wiki/WikiStart#CandidateforearlyIANAAllocations>