

IETF CELLAR WG

Codec Encoding for LossLess Archiving and Realtime transmission

Co-chairs

- Michael Richardson
 - <mcr+ietf @ sandelman.ca>
- Spencer Dawkins
 - <spencerdawkins.ietf@gmail.com>

Heavy Lifting done by:

Dave Rice

Martijn van Beurden

Steve Lhomme

Jérôme Martinez

Michael Niedermayer

Moritz Bunkus

and many others!

The Agenda Today

- Who is the IETF
- What is CELLAR WG
- Some legal mumbo-jumbo
- On to the **work** itself. This is an open meeting.
 - normally would be longer
 - most work occurs on github and on email
 - meetings are to establish deadlines, an iteration velocity, and to resolve issues that couldn't reach consensus otherwise
- Please interrupt, put your hand up, don't wait to ask questions
- Our goal is to get you involved!

Who is the IETF?

Who is the IETF?

What my mother thinks:

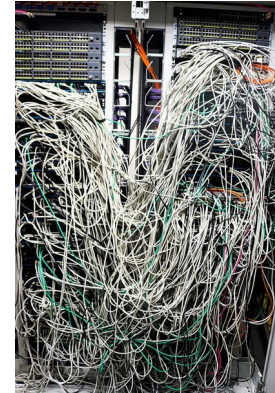


Who is the IETF?

What my mother thinks:



What my friends think:

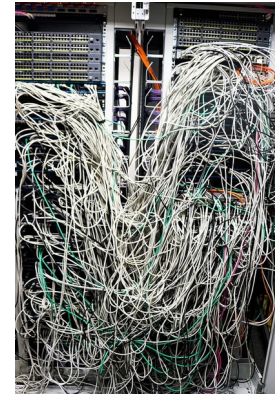


Who is the IETF?

What my mother thinks:



What my friends think:



What I think:



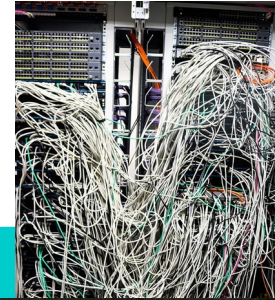
/ait/CELLAR

Who is the IETF?

What my mother thinks:

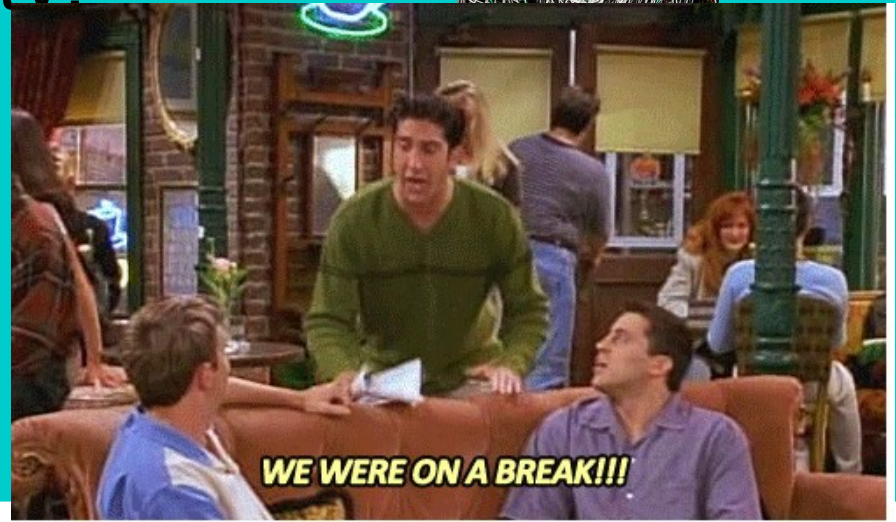


What my friends think:



Reality:

What I think:



What I tell my Dentist

<https://www.ietf.org>

2022-10-26

No Time To Wait/CELLAR

What I tell my Dentist

- You know that “http”
thing in your
browser?

<https://www.ietf.org>

What I tell my Dentist

- You know that “http” thing in your browser?
- Yeah, we did that.

<https://www.ietf.org>

What I tell my Dentist

- You know that “http” thing in your browser?
- *Okay, not **me** personally.*
- Yeah, we did that.

<https://www.ietf.org>

What I tell my Dentist

- You know that “http” thing in your browser?
- *Okay, not **me** personally.*
- Yeah, we did that.
- But, I know that guy, and my stuff is related in a way too detailed to explain now.

<https://www.ietf.org>

What I tell my Dentist

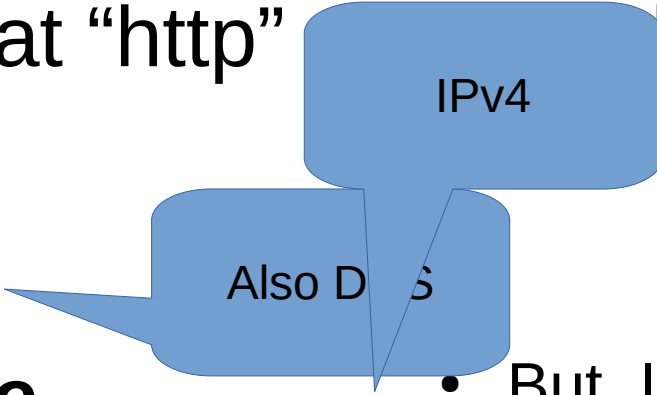
- You know that “http” thing in your browser?
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Also DNS

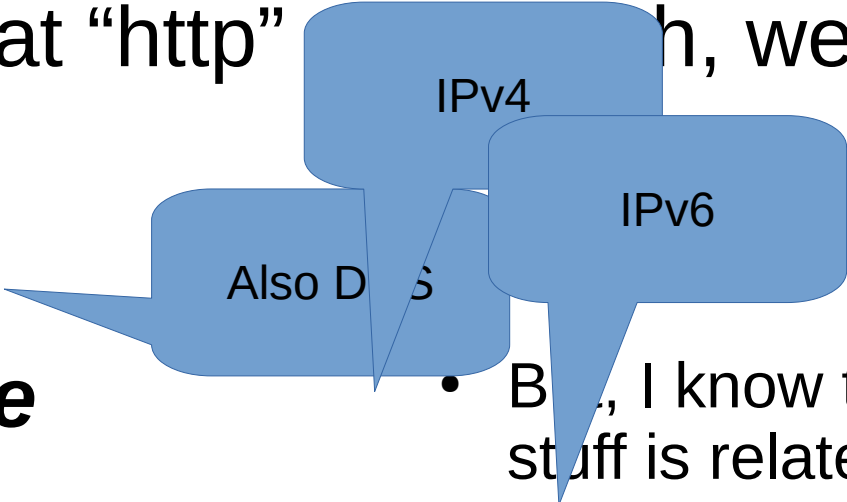
<https://www.ietf.org>

What I tell my Dentist

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<https://www.ietf.org>

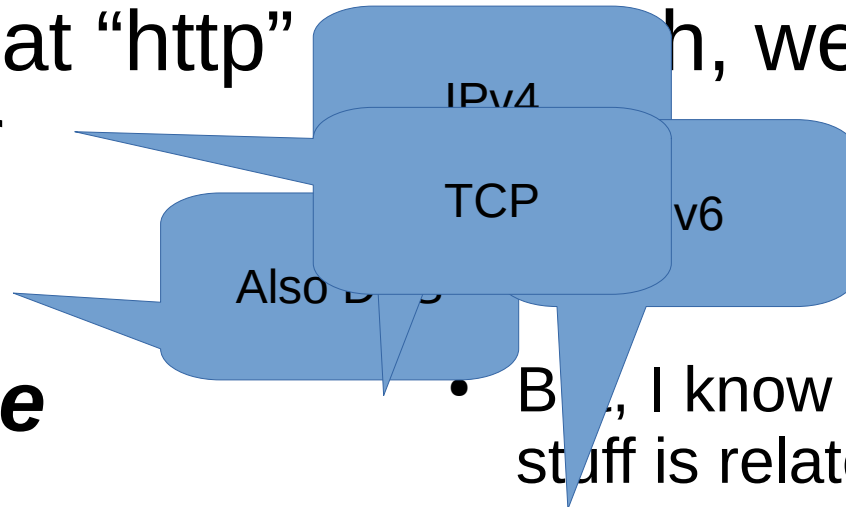
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- 

<https://www.ietf.org>

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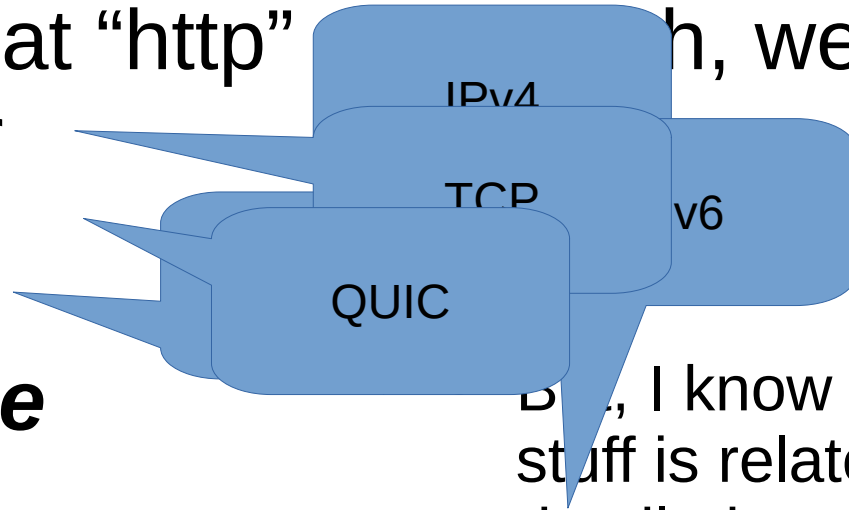
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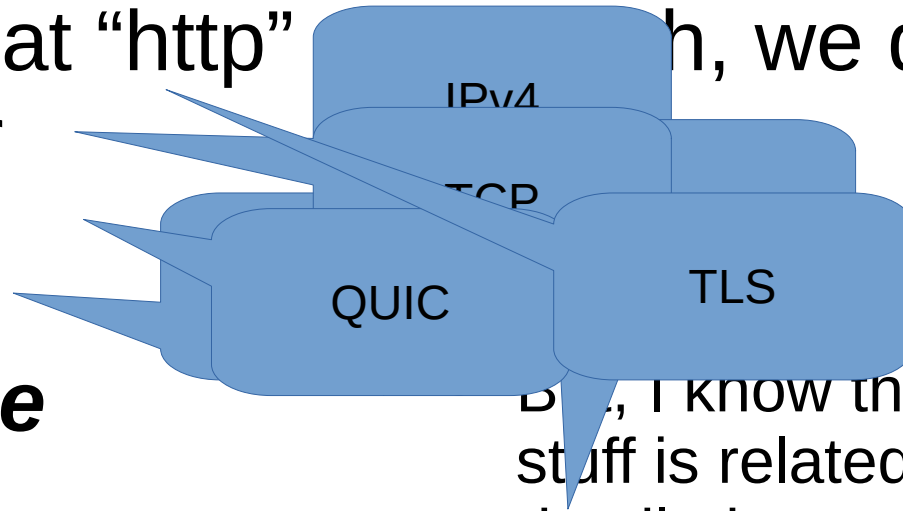
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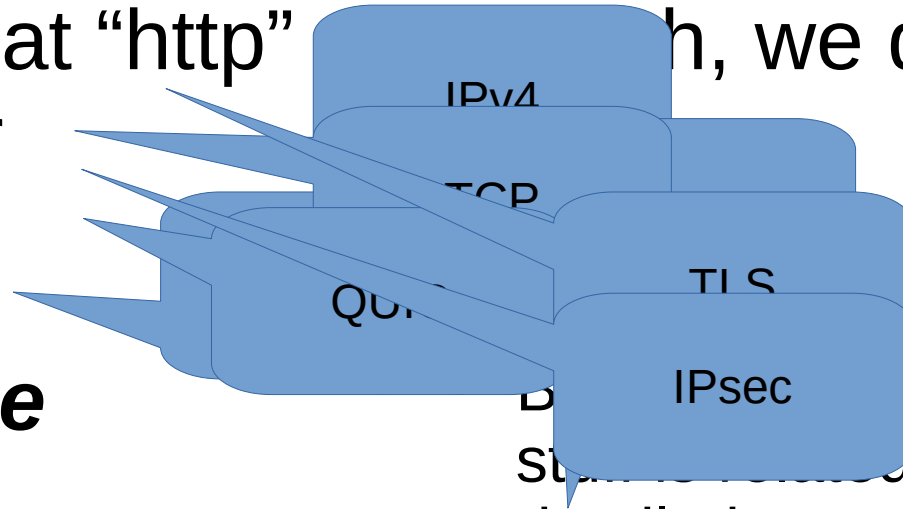
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<https://www.ietf.org>

The story so far

- Following in the success of OPUS, the CELLAR WG was formed in 2015.
- Published RFC7894 (EBML) in 2020
- RFC9043 FFv1 (v0,1,3) in August 2021
- Matroska document pretty firm, will finish in 2022
- Almost all CELLAR WG meetings have been virtual interims, fourth Tuesday of the month.
 - ANYONE can join. There are no fees or membership.
 - It's a meritocracy!

The WG itself

Google Chrome | Wed Oct 26 17:28

datacenter.ietf.org/wg/cellar/documents/

Datatracker | Groups | Documents | Meetings | Other | mcr+ietf | Report a bug | Document search

Codec Encoding for LossLess Archiving and Realtime transmission (cellar)

About | Documents | Meetings | History | Photos | Email expansions | List archive »

Edit milestones | Manage document list | Edit group | Customize workflow

Search

Document	Date	Status	IPR	AD/Shepherd
Active Internet-Drafts (7 hits)				
draft-ietf-cellar-chapter-codecs-01 Matroska Media Container Chapter Codecs Specifications	8 pages 2022-04-30 Expires soon	I-D Exists WG Document		
draft-ietf-cellar-codec-09 Matroska Media Container Codec Specifications	53 pages 2022-04-30 Expires soon	I-D Exists WG Document : Proposed Standard Apr 2022		
draft-ietf-cellar-control-01 Matroska Media Container Control Track Specifications	11 pages 2022-05-01 Expires soon	I-D Exists WG Document		
draft-ietf-cellar-ffv1-v4-19 FFV1 Video Coding Format Version 4	57 pages 2022-05-31	I-D Exists WG Document : Proposed Standard Jul 2022		
draft-ietf-cellar-flac-07 Free Lossless Audio Codec	87 pages 2022-10-23 New	I-D Exists In WG Last Call : Proposed Standard Jul 2022		
draft-ietf-cellar-matroska-14 Matroska Media Container Format Specifications	183 pages 2022-10-01	AD Evaluation Submitted to IESG for Publication : Proposed Standard Oct 2018, Apr 2022 Action Holder: Murray Kucherawy		Murray Kucherawy Michael Richardson
draft-ietf-cellar-tags-09 Matroska Media Container Tag Specifications	23 pages 2022-04-30 Expires soon	I-D Exists WG Document : Proposed Standard Apr 2022		
RFCs (2 hits)				
RFC 8794 (was draft-ietf-cellar-ebml) Extensible Binary Meta Language	51 pages 2020-07	Proposed Standard RFC		Alexey Melnikov Steven Villeréal
RFC 9043 (was draft-ietf-cellar-ffv1) FFV1 Video Coding Format Versions 0, 1, and 3	51 pages 2021-08	Informational RFC		Murray Kucherawy Peter Buxtinger-Steindl

Atom feed: [All changes](#) | [Significant](#) | [Subscribe to changes](#) | [Export as CSV](#)

The WG itself

The image displays two web browsers side-by-side, illustrating the work of the IETF CELLAR working group.

Left Browser (Google Chrome): The address bar shows `datacenter.ietf.org/wg/cellar/documents/`. The page title is "Codec Encoding for LossLess Archiving". The navigation bar includes "About", "Documents", "Meetings", "History", "Photos", and "Email expansions". The "Documents" tab is active, showing a list of documents under the heading "Active Internet-Drafts (7 hits)". The list includes:

- [draft-ietf-cellar-chapter-codecs-01](#) - Matroska Media Container Chapter Codecs Specifications
- [draft-ietf-cellar-codec-09](#) - Matroska Media Container Codec Specifications
- [draft-ietf-cellar-control-01](#) - Matroska Media Container Control Track Specifications
- [draft-ietf-cellar-ffv1-v4-19](#) - FFV1 Video Coding Format Version 4
- [draft-ietf-cellar-flac-07](#) - Free Lossless Audio Codec
- [draft-ietf-cellar-matroska-14](#) - Matroska Media Container Format Specifications
- [draft-ietf-cellar-tags-09](#) - Matroska Media Container Tag Specifications

Below this list, under the heading "RFCs (2 hits)", there are links to:

- [RFC 8794](#) (was draft-ietf-cellar-ebml) - Extensible Binary Meta Language
- [RFC 9043](#) (was draft-ietf-cellar-ffv1) - FFV1 Video Coding Format Versions 0, 1, and 3

The footer of the page indicates "51 pages 2021-08 Informational RFC".

Right Browser (Google Chrome): The address bar shows `github.com/ietf-wg-cellar`. The page title is "IETF CELLAR working group". The repository description is "Codec Encoding for LossLess Archiving and Realtime transmission". The repository has 2 followers and a link to `https://datacenter.ietf.org/wg/cellar/...`. The "Overview" tab is active, showing a list of pinned repositories:

- [matroska-specification](#) (Public) - Matroska specification. 105 stars, 43 forks.
- [flac-specification](#) (Public) - The Free Lossless Audio Codec (FLAC) Specification. 24 stars, 8 forks.
- [chair-notes](#) (Public) - Agenda and minutes from virtual interim meetings. Also see: <https://github.com/FFmpeg/ffv1>. 1 star, 1 fork.

Below the pinned repositories, the "Repositories" section shows a list of repositories with filters for "Find a repository...", "Type", "Language", "Sort", and "New". The list includes:

- [flac-specification](#) (Public) - The Free Lossless Audio Codec (FLAC) Specification. 24 stars, 8 forks, updated 3 days ago.
- [matroska-specification](#) (Public) - Matroska specification. 105 stars, 43 forks, updated 4 days ago.
- [chair-notes](#) (Public) - Agenda and minutes from virtual interim meetings. Also see: <https://github.com/FFmpeg/ffv1>. 1 star, 1 fork, updated on 26 Sep.
- [flac-test-files](#) (Public) - The Free Lossless Audio Codec (FLAC) test files.

The footer of the page shows the "Atom feed" with options: "All changes", "Significant", "Subscribe to changes", and "Export as CSV".

The WG itself

The screenshot displays a desktop environment with three overlapping web browser windows. The top window shows the GitHub repository for 'ietf-wg-cellar'. The middle window shows the Mail Archive for 'draft-ietf-cellar-ffv1'. The bottom window shows the Datatracker page for 'draft-ietf-cellar-ffv1'.

Datatracker Page Content:

Codec Encoding

About Documents Me

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Search

Document

- Active Internet-Drafts (7)
- [draft-ietf-cellar-chapter-co](#)
- [Matroska Media Containe](#)
- [draft-ietf-cellar-codec-09](#)
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- [draft-ietf-cellar-ffv1-v4-19](#)
- [FFV1 Video Coding Forma](#)
- [draft-ietf-cellar-flac-07](#)
- [Free Lossless Audio Code](#)
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- [Extensible Binary Meta L](#)
- [RFC 9043](#) (was draft-ietf-cellar-ffv1)
- [FFV1 Video Coding Format Versions 0, 1, and 3](#)

51 pages 2021-08 Informational RFC

Atom feed: [All changes](#) [Significant](#) [Subscribe to changes](#) [Export as CSV](#)

Mail Archive Page Content:

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Other bookmarks

Filter by Time: Anytime, Past day, Past week, Past month, Past year

Filter by From: [List of email addresses]

Subject: [Cellar] Weekly github digest (CELLAR Activity Summary)

From: Repository Activity Summary Bot

Date: 2022-05-08

322 Messages

[Cellar] Agenda for our August 23 meeting.

Spencer Dawkins at IETF <spencerdawkins.ietf@gmail.com> | Mon, 22 August 2022 17:20 UTC | Show header

Dear Cellar,

This are the topics I know about for our interim meeting tomorrow (link is at <https://notes.ietf.org/notes-ietf-interim-2022-cellar-07-cellar-view>)

Please let me know if you need us to add any other topics to the agenda.

Best,

Spencer

CELLAR - DRAFT AGENDA for Virtual Interim Meeting

Date/Time/Local Times

2022-08-23 21:00 Amsterdam Time Converter

<<https://savvytime.com/converter/netherlands-amsterdam-to-utc-my-new-york-city-ca-san-francisco/jun-22-2021/5pm>>

Note Meeting time is anchored to Amsterdam

<<https://notes.ietf.org/administrivia#Administrivia>>

<<https://notes.ietf.org/#INFO-INFO>>

<https://github.com/ietf-wg-cellar/notes/tree/master/interim-2022-08>

Datatracker Page Footer:

Follow

View as: Public

You are viewing the README and repositories as a public user.

You can create a README file visible to anyone.

Get started with tasks that most successful organizations complete.

People

Invite someone

Top languages

- HTML
- Shell
- XSLT

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)

Some URLs

- 1) <https://www.ietf.org>
- 2) <https://datatracker.ietf.org> <- account needed to login
- 3) <https://datatracker.ietf.org/wg/cellar/documents/>
- 4) <https://github.com/ietf-wg-cellar>
- 5) <https://meetings.conf.meetecho.com/interim/?short=69cac44e-ccb6-4fe7-865b-e27bcfcdfc4f>
- 6) <https://notes.ietf.org/notes-ietf-interim-2022-cellar-11-cellar>
- 7)