

# HTTPAPI at IETF 112

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# 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.

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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)

# Note really well

1. Treat colleagues with respect
2. Speak slowly and limit the use of slang
3. Dispute ideas by using reasoned argument
4. Use best engineering judgement
5. Find the best solution for the whole Internet
6. Contribute to the ongoing work of the group and the IETF

Please keep these in mind at the mic, in messaging, etc.

# Online meeting tips

- Make sure your video is off unless you are chairing or presenting
- Mute your microphone unless you are speaking
- You are encouraged to use a headset/earbuds, etc.
- Blueshees are automatically generated via Meetecho
- Chatrooms in meetecho are connected to the Jabber chatrooms listed in the datatracker agenda.
- More information and assistance:
  - Open a ticket: <https://www.ietf.org/how/meetings/issues/>
  - Meetecho guide: <https://www.ietf.org/how/meetings/111/session-participant-guide> (yes 111)

# Agenda

- Administrivia
  - Note well
  - Minute-taker (<https://notes.ietf.org/notes-ietf-112-acme#>)
  - Agenda bashing
- QUERY method
- Link Template Discussion
- Documents update
- Any other business?

# Query Method

```
QUERY /contacts HTTP/1.1
```

```
Host: example.org
```

```
Content-Type: example/query
```

```
Accept: text/csv
```

```
select surname, givenname, email limit 10
```

Response:

```
HTTP/1.1 200 OK
```

```
Content-Type: text/csv
```

```
surname, givenname, email
```

```
Smith, John, john.smith@example.org
```

```
Jones, Sally, sally.jones@example.com
```

```
Dubois, Camille, camille.dubois@example.net
```

Safe +  
Idempotent +  
Cachable

Accept-Query  
response header

# Link Template

<https://datatracker.ietf.org/doc/html/draft-nottingham-link-template-03>

```
Link-Template: </widgets/{widget_id}>;  
                rel="https://example.org/rel/widget";  
                var-base="https://example.org/vars/"
```



# Linkset

<https://github.com/ietf-wg-httpapi/linkset>

See Erik Wilde's Slides

# rfc7807bis

<https://github.com/ietf-wg-httpapi/rfc7807bis>

- Problem Details Object for Warning #12 (Closed/Punted ?)
- Multiple Problems #6

```
172 + HTTP/1.1 207 Multi-Status
```

```
173 + Content-Type: application/problem+json
```

```
174 + Content-Language: en
```

```
175
```

```
176 + {
```

```
177 +   "type": "https://example.net/multiple-errors",
```

```
178 +   "title": "The request has multiple errors",
```

```
179 +   "instance": "/users/12345/errors/9876",
```

```
180 +   "causes": [
```

```
181 +     {
```

```
182 +       "type": "https://example.net/validation-error",
```

```
183 +       "title": "Invalid value",
```

# Ratelimit-headers

<https://github.com/ietf-wg-httpapi/ratelimit-headers>

- Field Names #65
  - RateLimit-\* vs RL-\*
- Throttling scope #10
- Define headers dependencies #11
- Could Limit be an item instead of a list? #24

# Deprecation Header

<https://github.com/ietf-wg-httpapi/deprecation-header>

- Deprecation Scope #7
  - Can a deprecation header be used to signal the returned representation has some deprecated content?
- proposed example: redirect to new location #6
  - 301 Permanent Redirect HTTP/1.1  
Location: /foo  
Deprecation: .
- Fields that have alternative forms #12
  - Deprecated (bool or date) vs (past date equals true)

# Idempotency Key

<https://github.com/ietf-wg-httpapi/idempotency>

- Use Structured Fields #6
- How does this header compare with OASIS Repeatable Requests? #5
- add appendix about relationship with conditional requests #4

# Documents

- Link Template <https://datatracker.ietf.org/doc/html/draft-nottingham-link-template-03>
- Deprecation Header <https://datatracker.ietf.org/doc/html/draft-ietf-httpapi-deprecation-header-02>
- Idempotency Key <https://datatracker.ietf.org/doc/html/draft-ietf-httpapi-idempotency-key-header>
- Linkset <https://datatracker.ietf.org/doc/html/draft-ietf-httpapi-linkset-04> (done, ready to advance?)
- Ratelimit header <https://datatracker.ietf.org/doc/html/draft-ietf-httpapi-ratelimit-headers-01>
- rfc7807bis <https://datatracker.ietf.org/doc/html/draft-ietf-httpapi-rfc7807bis-01>

Any other business?

<https://datatracker.ietf.org/doc/html/draft-inadarei-api-health-check-06>