



# EME vNext Incubation

Proposals and Status - July 2019

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# Proposals from Netflix

- Persistent Usage Record Sessions

# Proposals from Google

- HDCP Detection API
- Encryption Scheme Query
- Find Session API
- Future: Internal Key Rotation
- Future: Robustness Deprecation

# Persistent Usage Record Sessions

AKA "Secure Stop". Keeps a record of the usage of a license, to be sent to the license server when the session is closed. Allows the service provider to track concurrent views without renewals.

- Status:
  - Spec text published
  - 0 open issues
  - Partial support in Chrome 70 (in Chrome, but not yet the Widevine CDM)
  - No (new) TAG review
- Repo: <https://github.com/WICG/encrypted-media>
- Issues: <https://github.com/WICG/encrypted-media/issues>

# HDCP Detection API

Allows an app to decide what HDCP level could be supported before fetching content, to make an early decision about what to play without a round trip.

- Status:
  - Explainer published
  - Spec text published
  - Enabled by default in Chrome 73
  - 5 open issues
  - TAG review concerned about privacy implications (see issue #11)
- Explainer: <https://github.com/WICG/hdcp-detection/blob/master/explainer.md>
- Spec: <https://wicg.github.io/hdcp-detection/>
- Issues: <https://github.com/WICG/hdcp-detection/issues>
- Chrome status: <https://www.chromestatus.com/feature/5652917147140096>

# Encryption Scheme Query

Allows an app to specify encryption scheme when negotiating a CDM instance.

- Status:
  - Explainer published
  - Spec text not written
  - Ran an origin trial in Chrome 69 and 70, feedback positive
  - 5 open issues
  - TAG review Feb 2019 found no cause for concern
- Explainer:  
<https://github.com/WICG/encrypted-media-encryption-scheme/blob/master/explainer.md>
- Issues: <https://github.com/WICG/encrypted-media-encryption-scheme/issues>
- Chrome status: <https://www.chromestatus.com/feature/5184416120832000>

# Find Session API

Allows deduplication of init data / sessions. Originally envisioned also to handle internal key rotation.

- Status:

- Draft explainer
- Spec text not written
- Not implemented anywhere
- 1 open issue
- No TAG review

- Explainer:

<https://github.com/joeyparrish/encrypted-media-find-session/blob/draft/explainer.md>

- Feedback at FOMS March 2019 was that this was overloaded, too subtle.