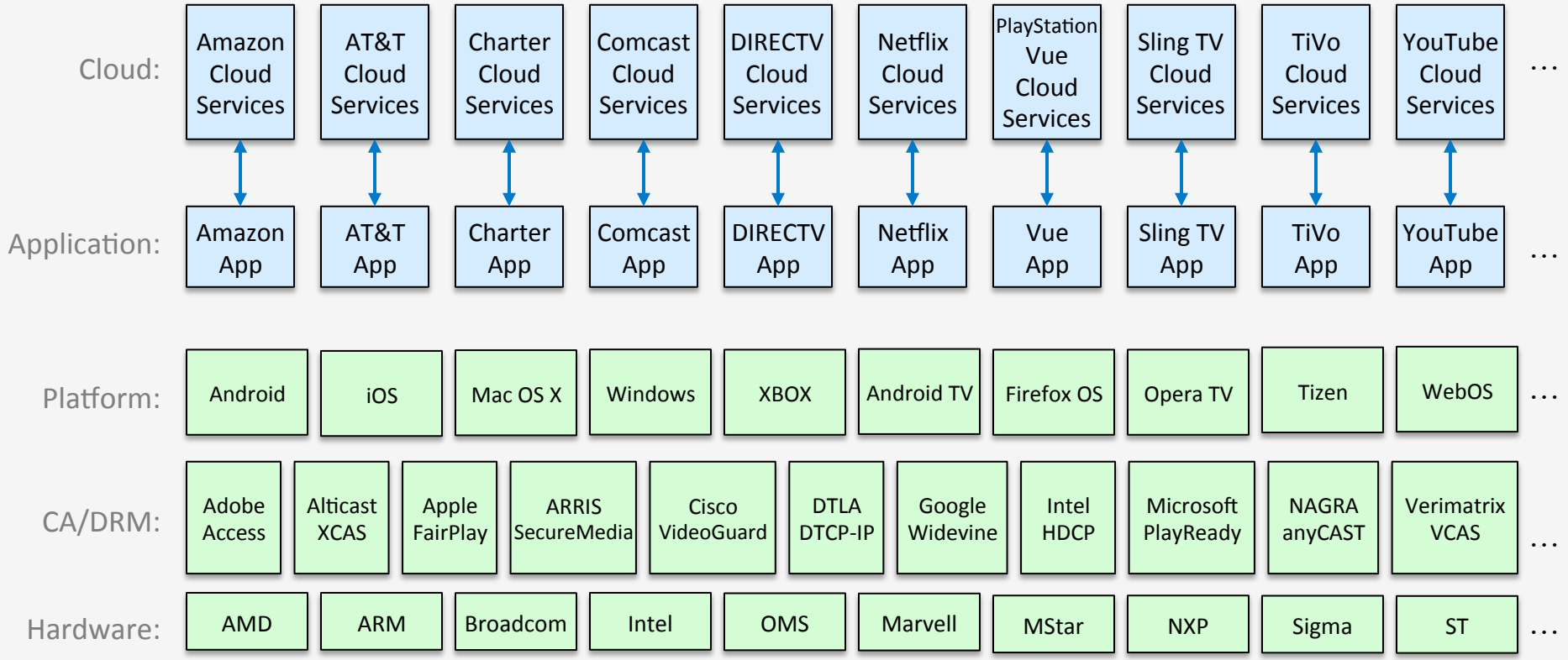
HTML5 Security API's Proposal

DSTAC WG3 Report

HTML5, EME, MSE & Web Crypto



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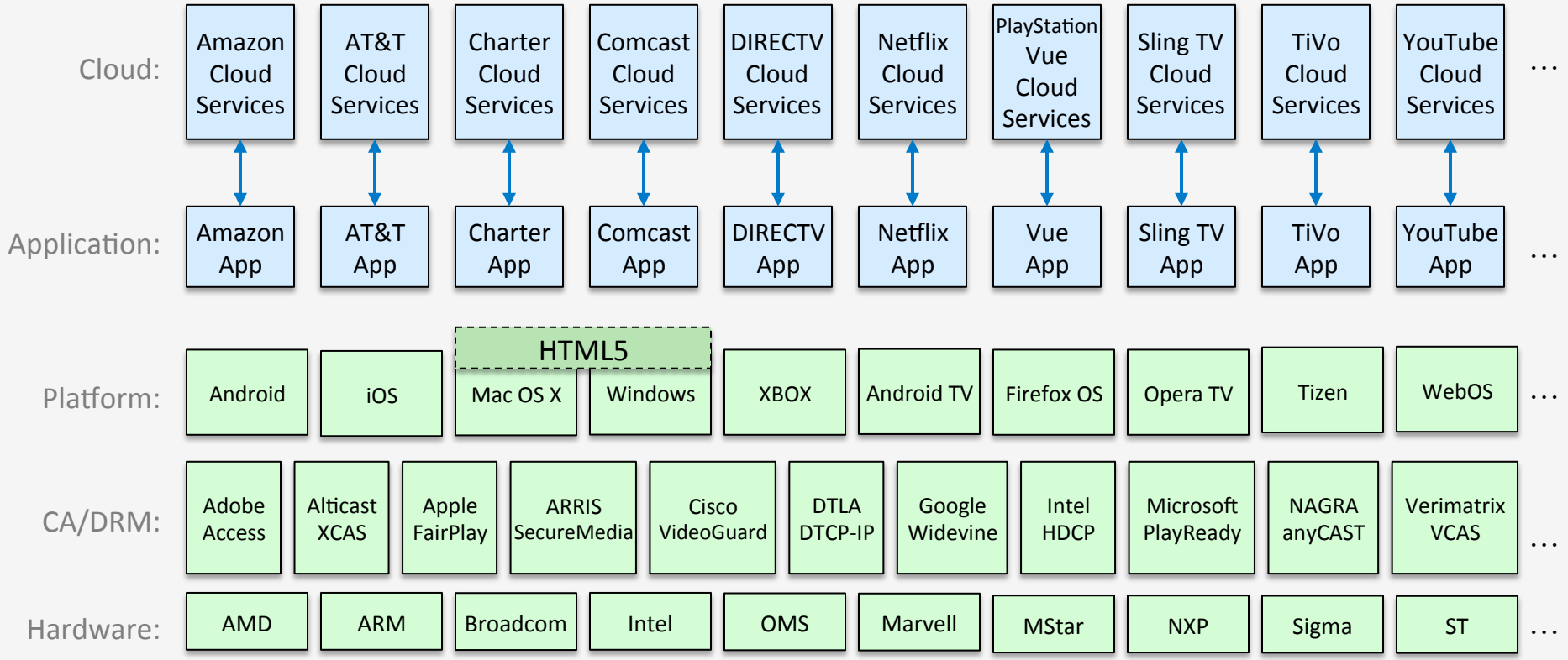

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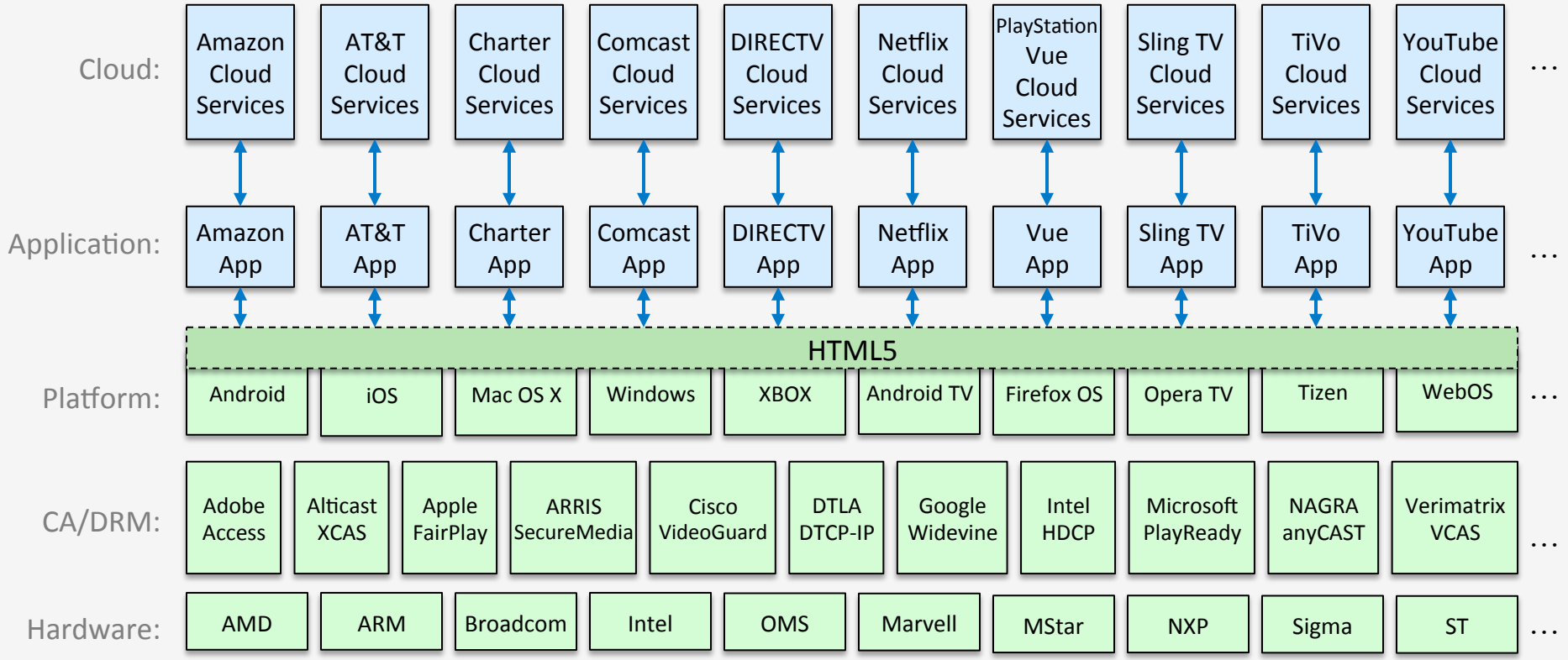

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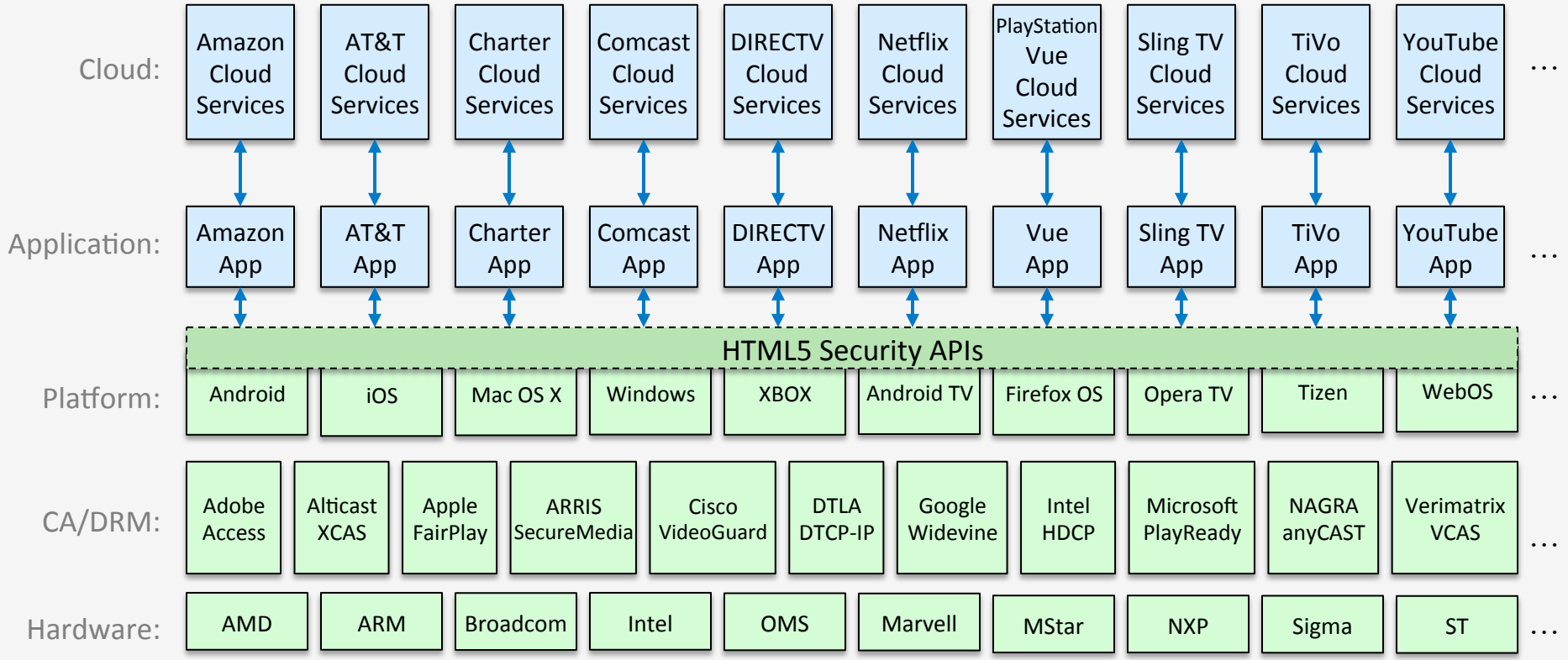

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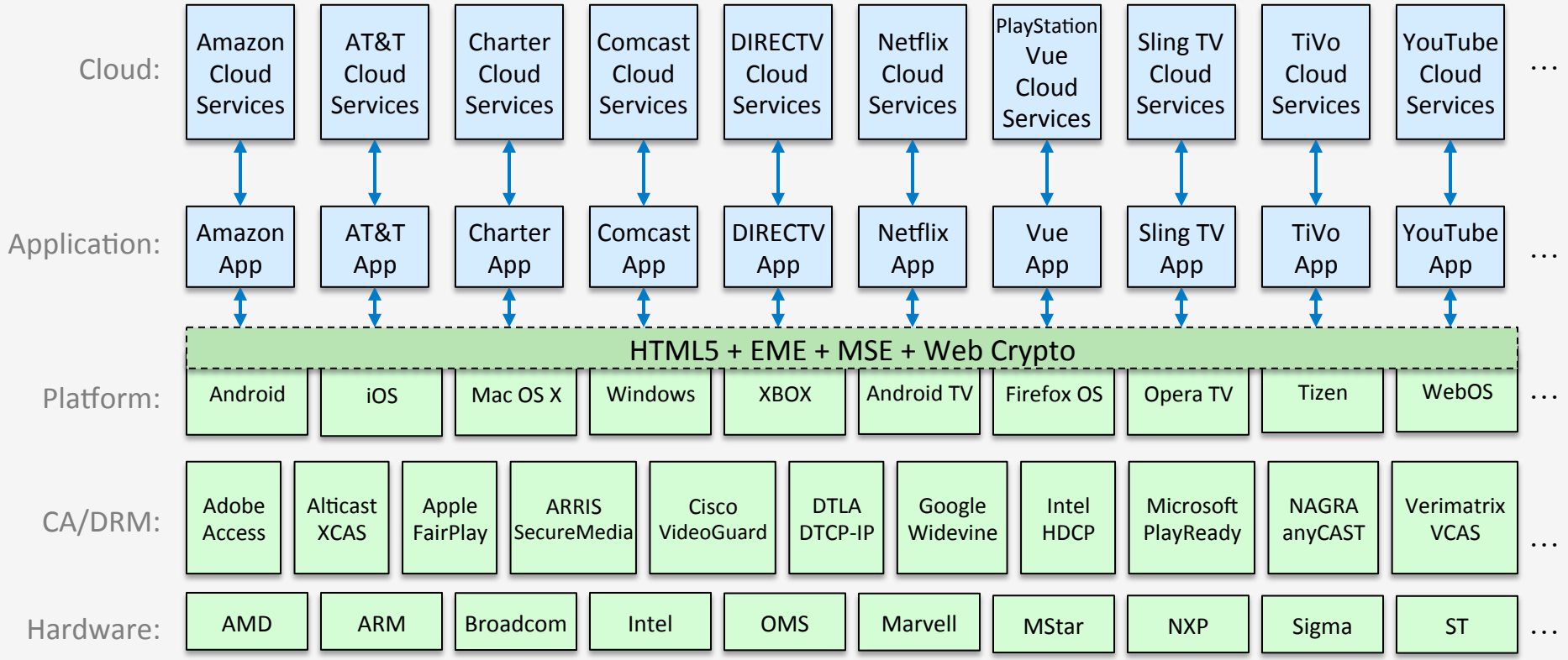
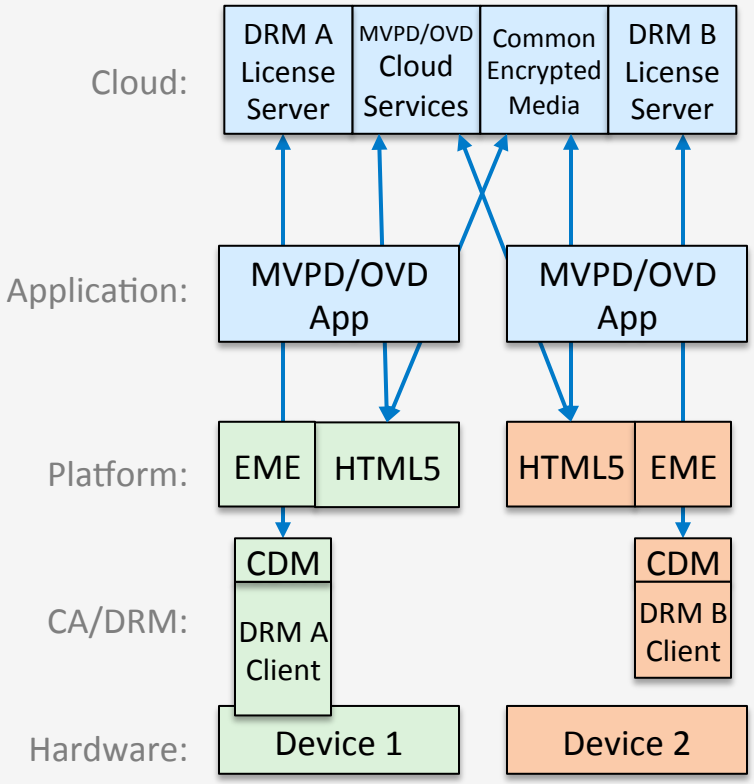


HTML5 Security APIs

- HTML5
  - Cornerstone of Open Web Platform
- Encrypted Media Extensions (EME)
  - Common-encrypted media decryption by one or more DRM
- Media Source Extensions (MSE)
  - Adaptive Video
- Web Crypto
  - Basic cryptographic operations
  - Certificate access

Figure 2: HTML5 EME Common Encryption



Benefits

a) Royalty Free
b) Open source
c) Portable applications
d) Competitive security systems
e) Evolving functionality
f) Support TV and Internet merging
g) Field proven
h) Uniform API
i) Technology and platform-neutral
j) Software-based downloadable security systems
k) CE/CPE choice
l) Security providers competition
m) Chip manufacturer competition
n) MVPD/OVD choice
o) Minimizes proprietary code
p) Provides common IP abstraction to MVPD/OVD network security elements

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