# **Cable**Labs<sup>®</sup>

# W3C HTML5 Encrypted Media Extensions

FCC DSTAC WG 3

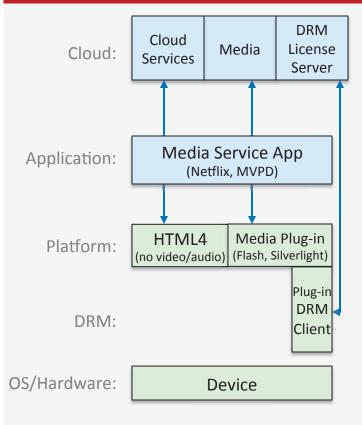
© Cable Television Laboratories, Inc. 2015. All Rights Reserved.

# W3C Encrypted Media Extensions (EME)

- W3C standard Web application API for protected content playback
  - Browser & OS neutral
  - DRM technology neutral
  - Hardware chip security neutral
- Focused on protected content playback.
  - Video control, subscriber authentication and all other service logic resides in the app
- Adopted by all major browser vendors (Apple Safari, Google Chrome, Microsoft Internet Explorer, Mozilla Firefox, Opera)
- Used by Netflix, DLNA VidiPath, ATSC 3.0
- Supported on PC, mobile, smart TV and other platforms
- Authors: Google, Microsoft, Netflix
- License: Royalty Free

### HTML4 to HTML5 + EME

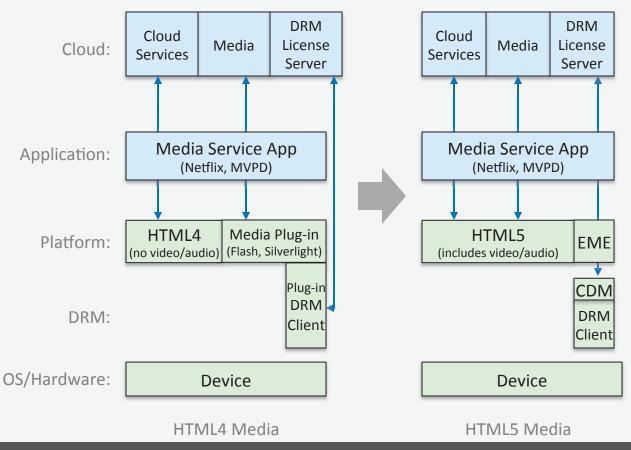
### **Cable**Labs<sup>®</sup>



HTML4 Media

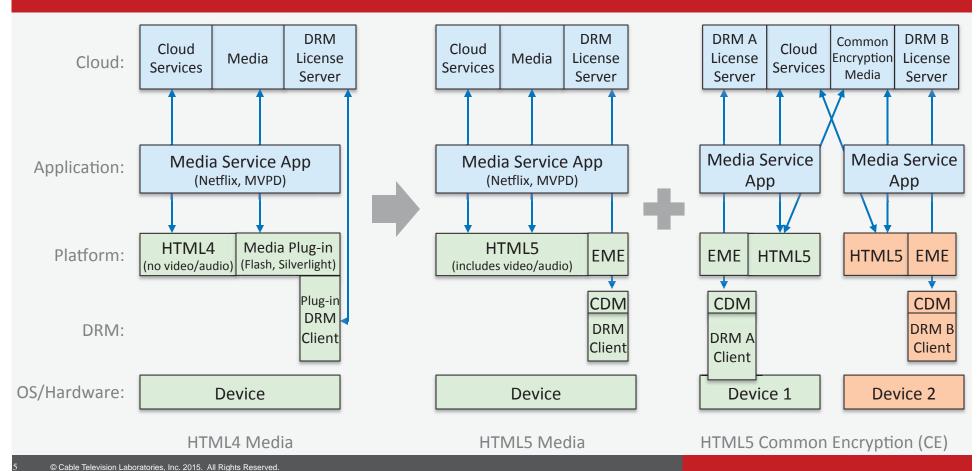
### HTML4 to HTML5 + EME

#### **Cable**Labs<sup>®</sup>

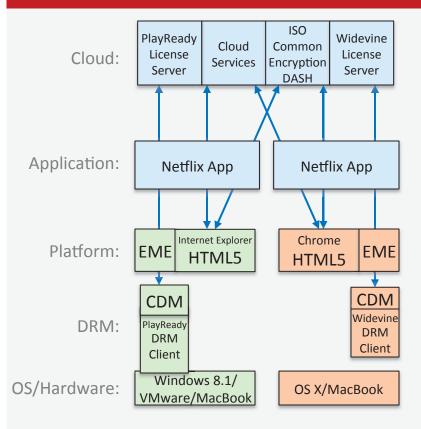


© Cable Television Laboratories, Inc. 2015. All Rights Reserved.

### HTML4 to HTML5 + EME

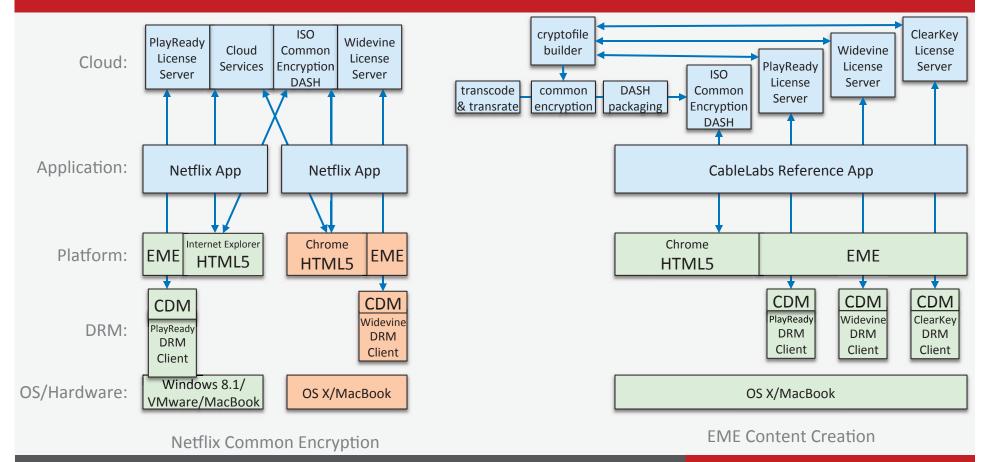


EME Demos CableLabs



**Netflix Common Encryption** 

### **EME Demos**



#### **Cable**Labs<sup>®</sup>

Cloud:

Netflix Cloud Services YouTube Cloud Services Amazon Cloud Services Hulu Cloud Services AT&T Cloud Services Cablevision Cloud Services

Charter Cloud Services Comcast Cloud Services DIRECTV Cloud Services SlingTV Cloud Services

Application:

Netflix App YouTube App Amazon App Hulu App AT&T App Cablevision App

Charter App Comcast App DIRECTV App SlingTV App

Platform:

Android

iOS

Windows

OS X

PlayStation

XBOX

Android TV

Firefox OS

Tizen

WebOS .

CA/DRM:

Adobe Access Apple Fairplay Microsoft PlayReady Google Widevine DTLA DTCP-IP OMA

NDS VideoGuard Verimatrix VCAS ARRIS SecureMedia NAGRA anyCAST

Hardware:

AMD

ARM

Broadcom

Intel

OMS

Marvell

MStar

NXP

Sigma

ST

#### **Cable**Labs<sup>®</sup>

Cloud:

Netflix Cloud Services YouTube Cloud Services Amazon Cloud Services Hulu Cloud Services AT&T Cloud Services Cablevision Cloud Services

Charter Cloud Services Comcast Cloud Services DIRECTV Cloud Services SlingTV Cloud Services

Application:

Netflix App YouTube App Amazon App Hulu App AT&T App Cablevision App

Charter App Comcast App DIRECTV App SlingTV App

Platform:

Android

iOS

Windows

OS X

PlayStation

XBOX

Android TV

Firefox OS

Tizen

WebOS .

CA/DRM:

Adobe Access

Apple Fairplay Microsoft PlayReady

Google Widevine DTLA DTCP-IP OMA

NDS VideoGuard Verimatrix VCAS ARRIS SecureMedia NAGRA anyCAST

Hardware:

AMD

ARM

Broadcom

Intel

OMS

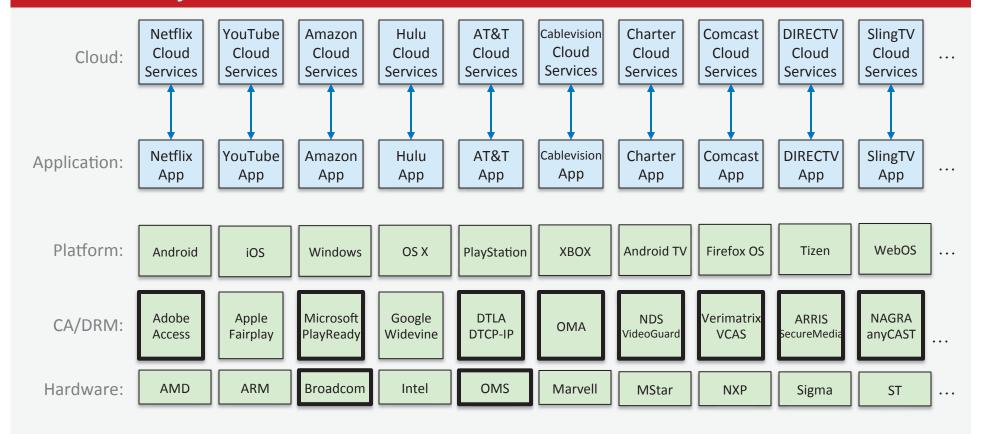
Marvell

MStar

NXP

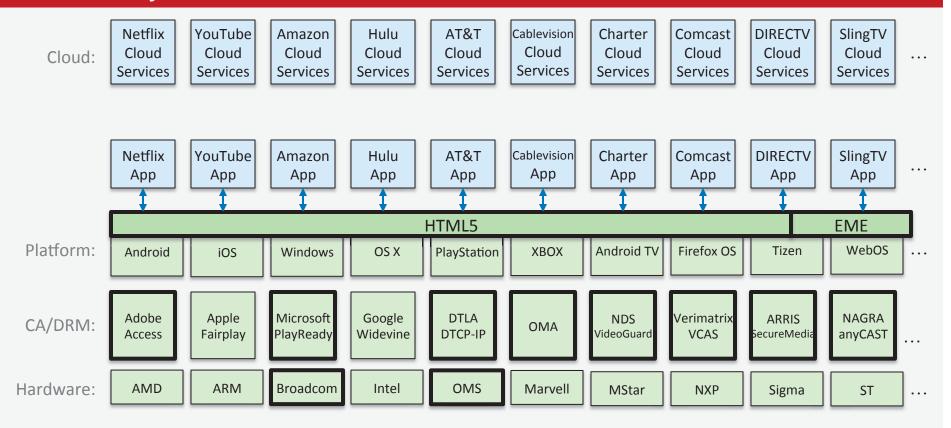
Sigma

ST



#### **Cable**Labs<sup>®</sup>

AT&T Netflix YouTube **DIRECTV** Amazon Hulu Cablevision Charter Comcast SlingTV Cloud Cloud: Services Services Services **Services** Services Services Services Services Services Services Netflix YouTube AT&T Comcast **DIRECTV** Amazon Hulu Cablevision Charter SlingTV Application: App HTML5 **EME** Platform: PlayStation **XBOX** Android TV Firefox OS Tizen WebOS Android iOS Windows OS X Adobe Apple Microsoft Google **DTLA** Verimatrix **ARRIS NAGRA** NDS CA/DRM: **OMA** Fairplay anyCAST PlayReady Widevine DTCP-IP VideoGuard **VCAS** SecureMedia Access Hardware: **AMD** ARM Broadcom Intel **OMS** Marvell NXP Sigma **MStar** ST



# **Cable**Labs®

### **EME API Details**

