



Streaming Media West 2010

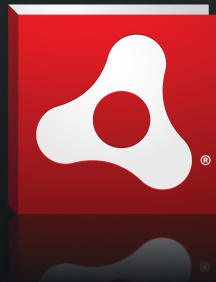
Jennifer Taylor| Senior Director Product Management Flash Platform



Video Powered by the Flash Platform



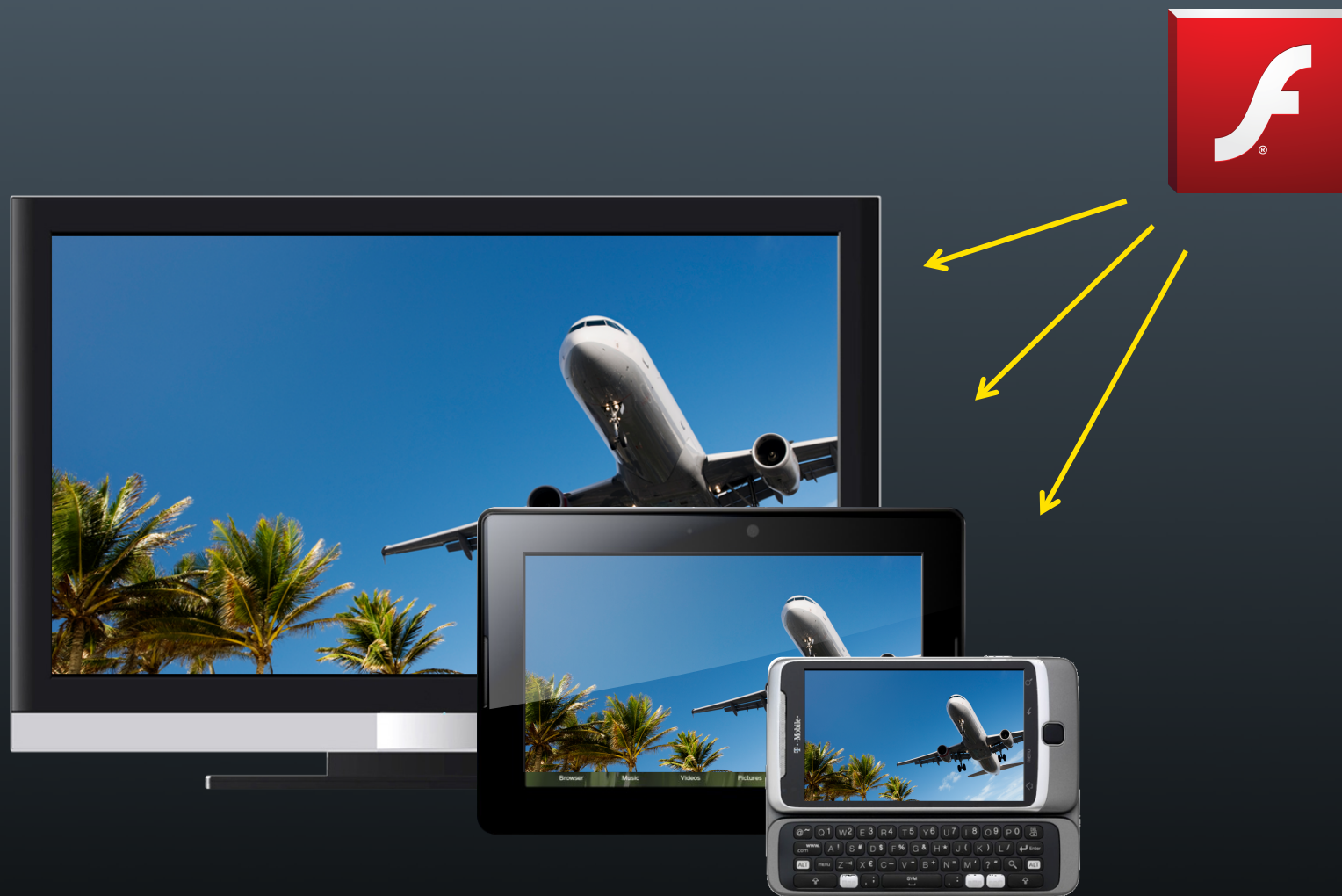
Inside the
browser



Beyond the
browser



More devices, more fragmentation



Adobe Flash Platform

The leading platform for creating expressive applications, content, and video that **run consistently** across operating systems and devices



Adobe Excels in Video Leadership

- The top 25 video properties in the U.S. today use Flash
- Largest events streamed using Adobe Flash Media Server
- Flash Media Server is used to provide multi-user audio and video experiences



Flash Platform: Sustained Leadership and Ubiquity

More than 3 Million Flash Developers*

85%

Of Alexa top 100 sites
use Flash

70%

Web games use
Flash

25

of the top video
properties in the U.S.
use Flash

98%

of Internet connected
PCs worldwide have
installed Flash Player

95%

of top 20 phone
OEMS committed
to delivering Flash

* Based on Evans Data April 2010

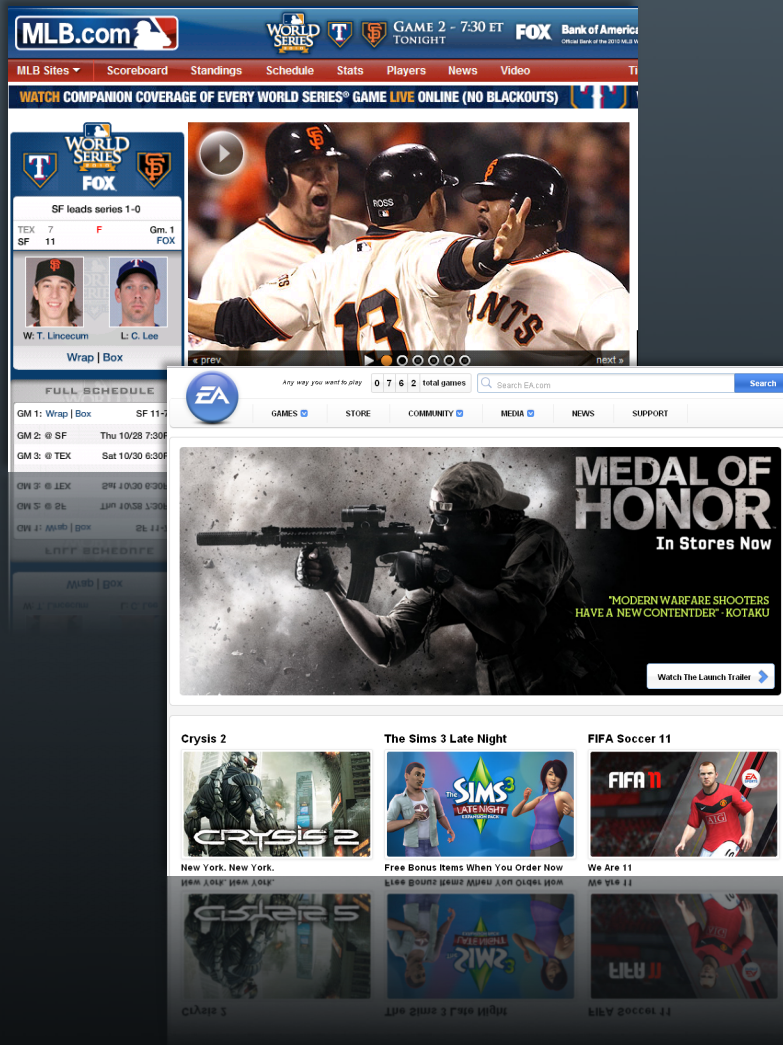
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Flash Player 10.1 Penetration in 3 months – Fastest in the World



Media and Entertainment Companies Embrace Flash Technology



Play Everywhere



Jeu partout
Spel overall
どこでも演劇
Juego por todas partes
Spiel überall
어디에나 놀이
Gioco dappertutto

Open Screen Project has grown to over 70 members

open
screen
project

TECHNOLOGY PARTNERS

CONTENT PARTNERS



ARM

htc



Google

NOKIA



NTT
docomo

QUALCOMM®



TOSHIBA

SONIC



OPENPEAK



MIPS
TECHNOLOGIES



ZiiLABS



CONDÉ NAST
DIGITAL



LIONSGATE

burda



Daum



epix

Don't Change A Thing!

Leverage the same media publishing as
Desktop delivery

- Consistent Codecs
 - Consistent Protection
 - Consistent Protocols
-
- Consistent Experience



Consistent Video Experiences

- Live, VOD,
- H.264, AAC
- P2P, HTTP, RTMP

Dynamic Streaming

- Adaptive Bitrate
- Enhanced Seek, DVR

Protected delivery

- Encrypted protocol, SWF V

Video Performance

- Mobile Hardware Acceleration
- Optimized Encoding

Powerful Media Framework



Dynamic Streaming on Mobile



Adaptive Bitrate technology

- RTMP + HTTP Protocols
- CPU + Bandwidth monitoring

Recovery during network outage

- Smart buffering reduces disruptions

Local buffer for dynamic seeking

- Seek back + forward
- Reduced network calls
- Pause and Resume quickly
- Frame stepping + Speed change

Good Bandwidth

Bandwidth Trouble

Good Bandwidth



Protected Delivery For Mobile

Monetize Video

- Pay per view
- Advertising

RTMPe Encryption

- Real Time encryption for Live + VOD
- No DRM workflow
- *Used today by all major publishers*

SWF Verification

- Protect the video player
- Protect access
- *Used today by all major publishers*

RTMFP (Peer Assisted Networking)

- Real Time encryption



ADOBE® FLASH® PLATFORM

Mobile Video Performance



- Device-driven hardware acceleration
- Battery optimization
- Encoding guidelines

DEMO



Flash Media Server Roadmap

SneakPeak

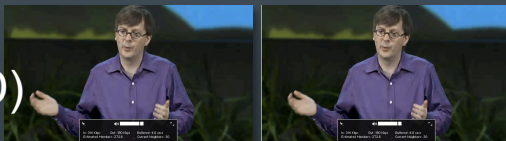


The Problem : 1 stream = 7 files

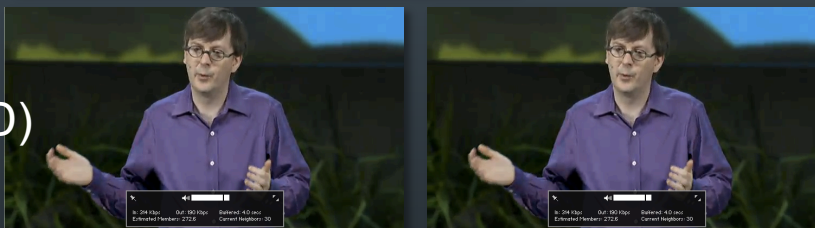
Mobile and Tablet



Desktop + TV (SD)



Desktop + TV (HD)



The Solution: 7 streams = 1 file

Mobile and Tablet

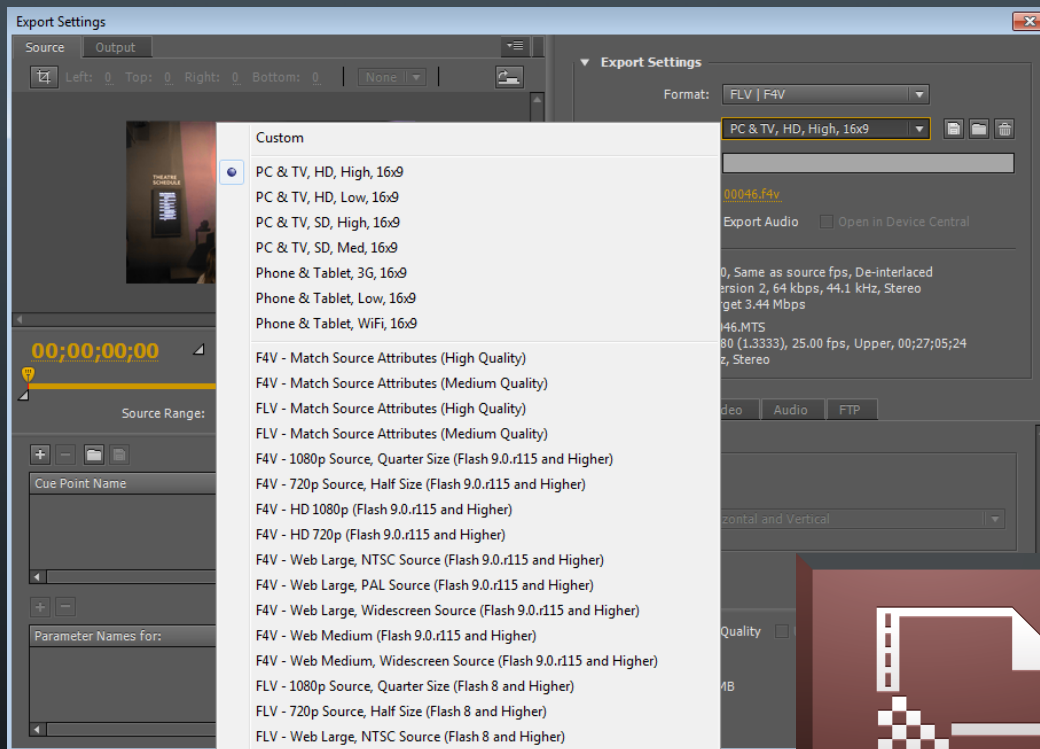
Desktop + TV (SD)

Master File
or Stream

Desktop + TV (HD)



Adobe Media Encoder CS5



- 7 new encoding Profiles
- For Tablet, Phone, Desktop and TV
- Full Adaptive Bitrate for un-interrupted viewing



Adobe Flash Media Family of Products

Driving consistent media delivery *for all Screens*

VIDEO ENCODING



Adobe Media
Encoder CS5



Flash Media
Live Encoder 4

VIDEO DELIVERY, PROTECTION



Flash Media
Server



Flash Access

VIDEO PLAYER DEVELOPMENT



open source
media framework

Flash Media
Playback

Strobe Media
Playback

VIDEO PLAYBACK



Flash Player



AIR

DEVICE



Many More to Come...

