





Video playback in Flash

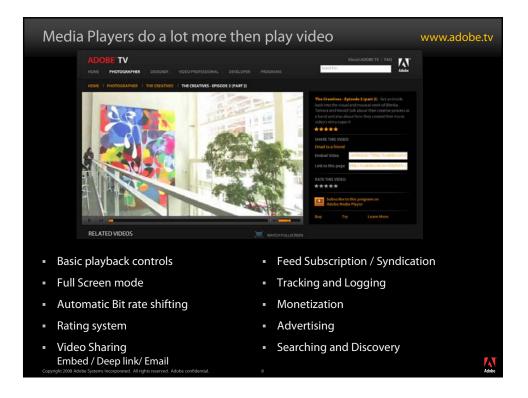
- Developers and designers changed the way the world looks at video
- Reach of the Flash platform was the launching pad
- High quality video in Flash player 8 (circa 2006)
- Above 80% penetration in less then 12 months

Media Consumption has changed

- High Quality Video 2006
 - Lots of Content 2007
- Great Experience 2007
- Engaging and Social 2008
- Accessible Anywhere 2008

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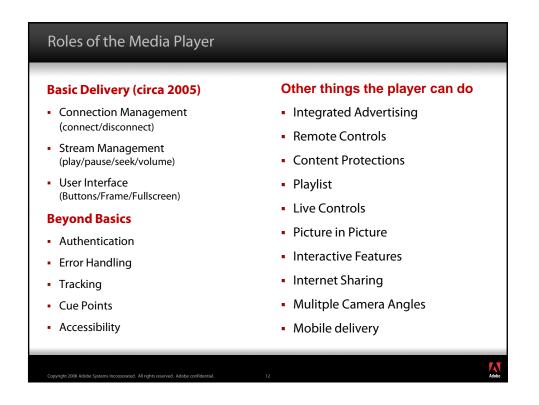
Common tasks for the Media player

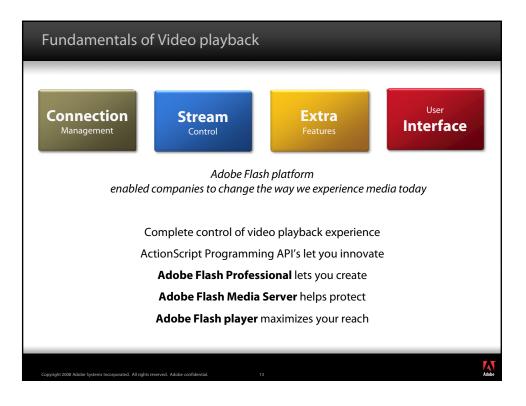
- Play the media
- Track the media
- Discover media
- Protect the media
- Watch multiple media
- Monetize the media
- Generate new content
- Share + Syndicate media
- Interact with the media
- Mash up the media

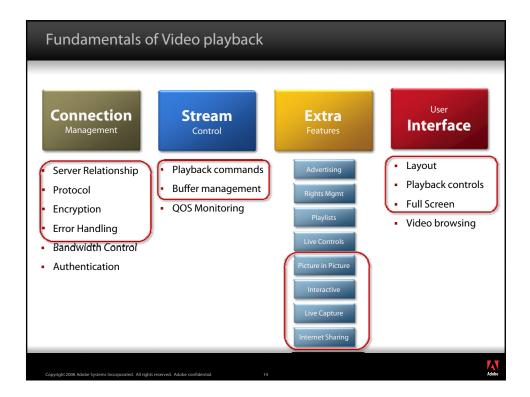


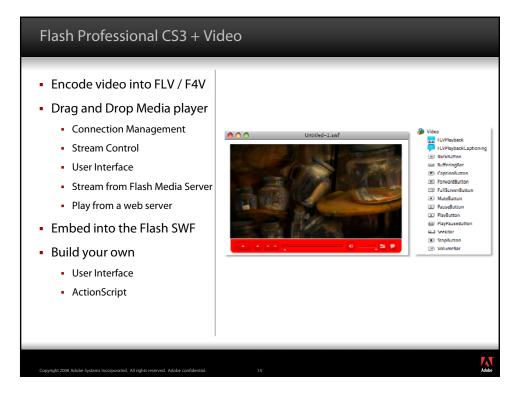
Media Players and Live Broadcasts by Kevin Towes

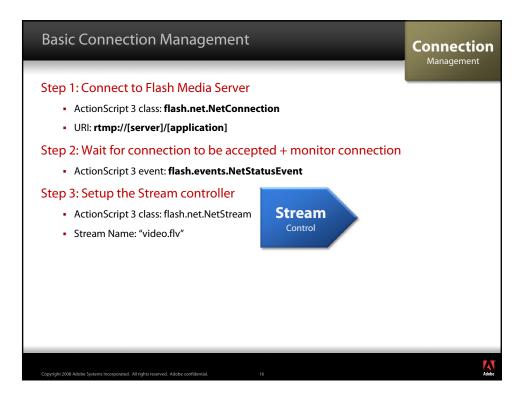


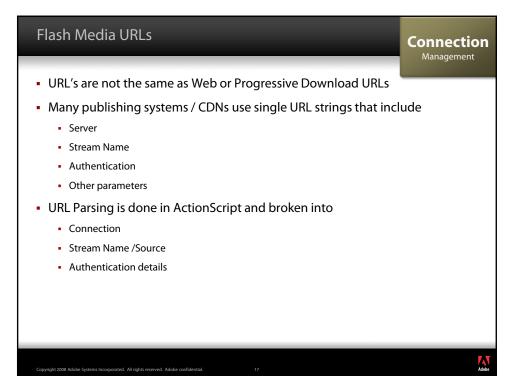




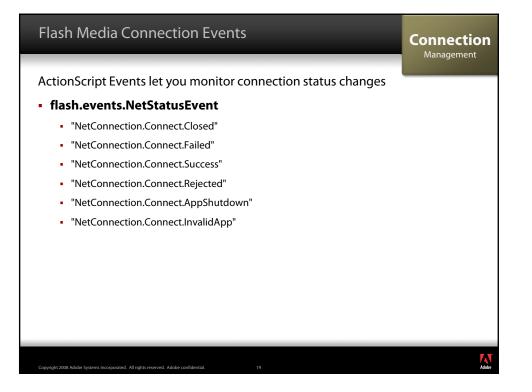






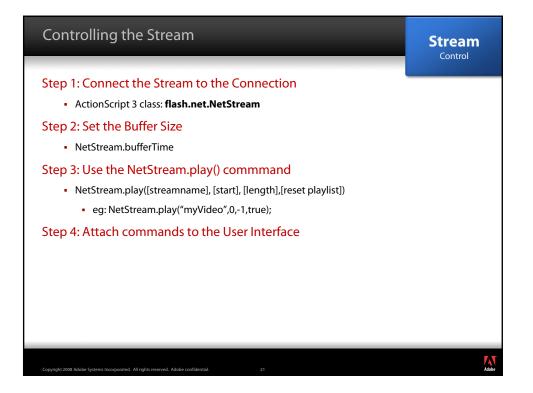


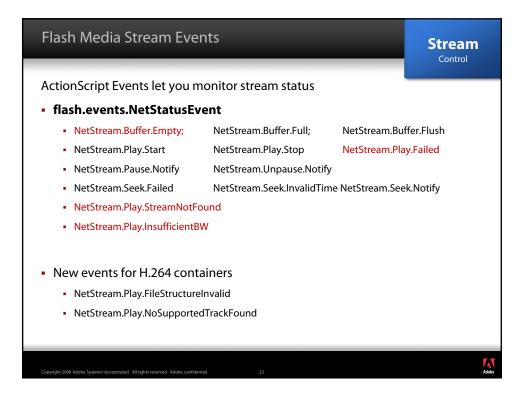
URL Structures for Flash Streaming	Connection
Basic URL	Management
 rtmp://172.16.4.128/vod/mystreamname 	
 H264-based or MP3-based URL 	
 rtmp:// 172.16.4.128/vod/mp4:mystreamname 	
 rtmp://172.16.4.128/vod/mp3:mysound 	
 FLVPlayback (Source) 	
 rtmp:// 172.16.4.128/vod/mp4:mystreamname.f4v 	
 http://webserver.com/myPlaylist.smil 	
 Application instances 	
 rtmp://172.16.4.128/vod/_definst_/mp4:mystreamname 	
 Stream folders 	
 rtmp:// 172.16.4.128/vod/_definst_/folder/mp4:mystreamname 	
 Query-based Authentication 	
 rtmp:// 172.16.4.128/vod/mp4:mystreamname?token=234h234jkh&account 	nt=kt
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Stream Control	Stream Control
 Manage the stream playback 	
Multiple streams can be delivered through a single connection	
 Basic stream commands: 	
 Play 	
Pause	
Seek	
 Manage the Buffer 	
 Monitor properties of the stream 	
Time	
Current Frame per Second	
 Manage a playlist 	
 Publish a live stream 	
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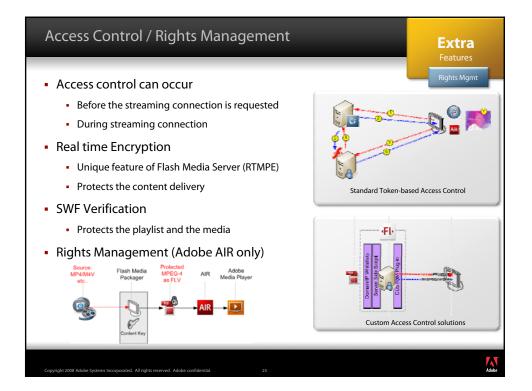
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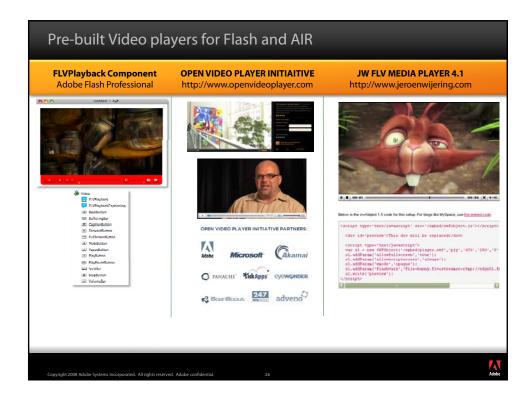


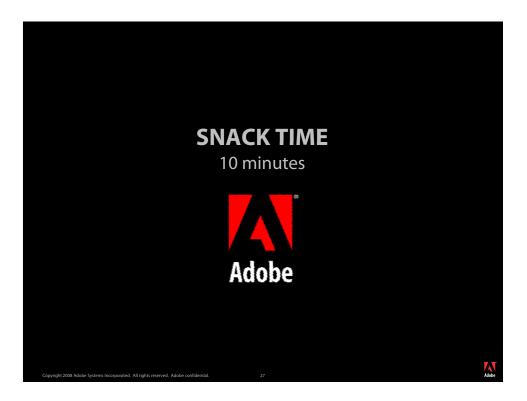




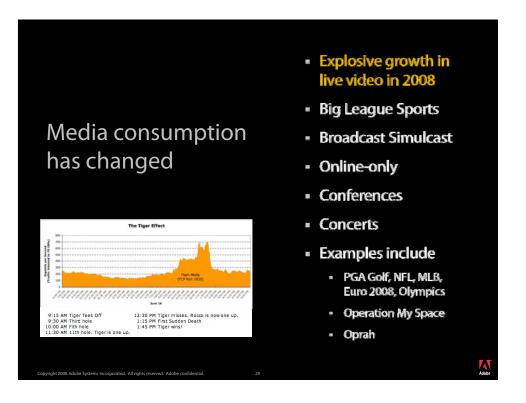


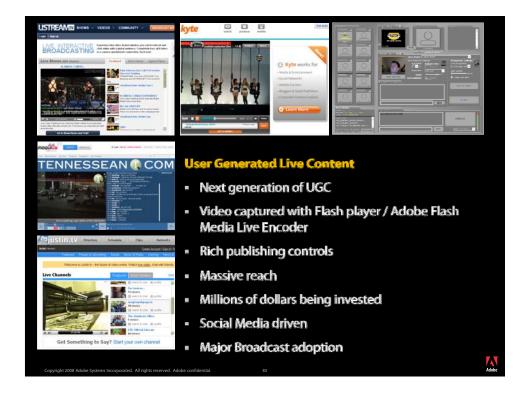




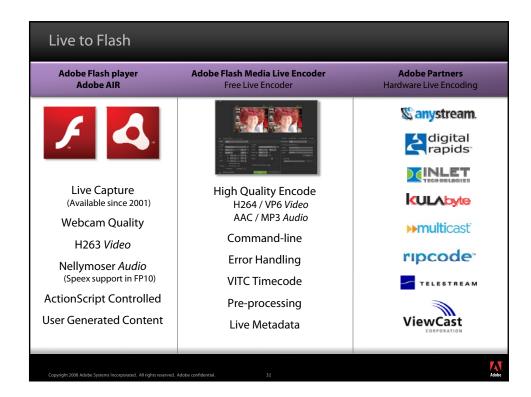


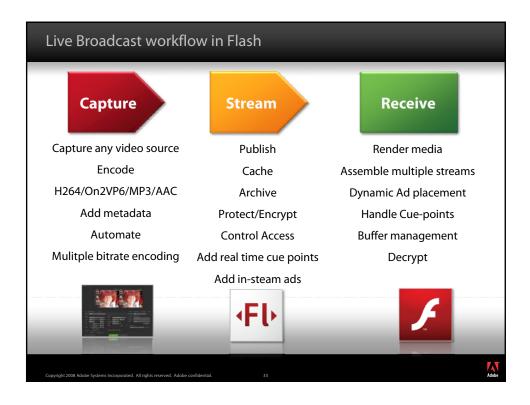


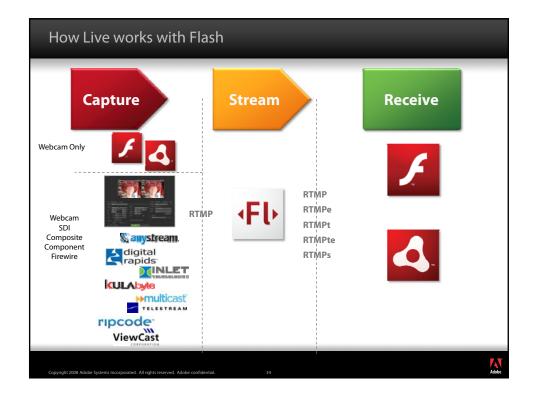


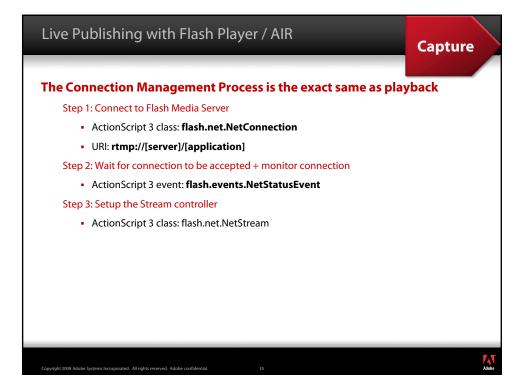


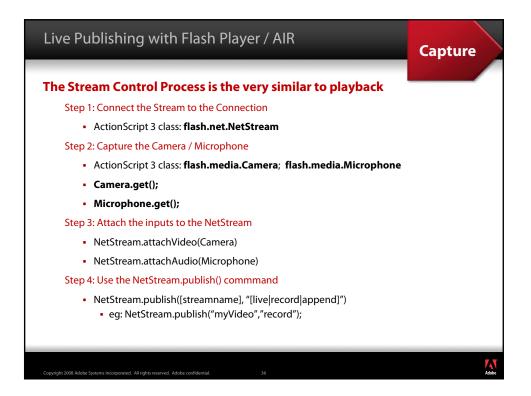


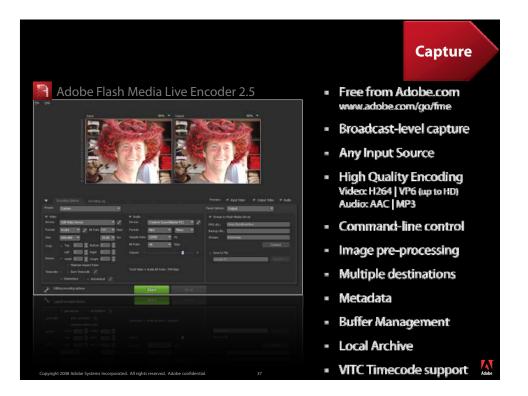


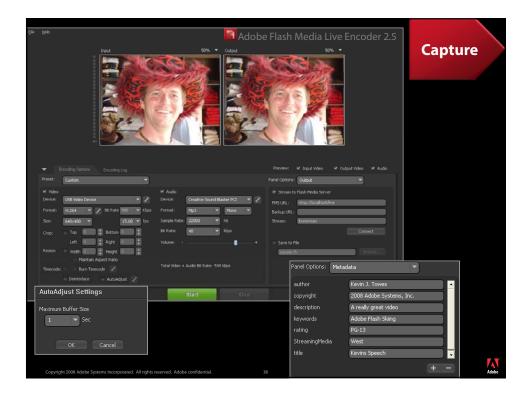












Media Players and Live Broadcasts by Kevin Towes

Adobe Flash Media Encoder – NProgram Files/Mobe/Flash Media Encoder 2.5r/NEcod /? Node (N) Flash (N) Media Encoder Command Line Utility / 2.5.0.2006 Topyright (C) 2007-2008 Adobe Systems Incorporated. All rights reserved.		ommand line	Capture
Encode from DirectX-recognized devices to Flash Video file or live stream			
/WEad (/?] WEad (/pprofile] [/log_file] [/ap auth_string] [/ab auth_string] [/t ddihismm] [/r] WEad /2 [fms_uid] WEad /2 [fms_uid]	ommands	USB Video Device 11.264	
Note: /2 Display this help message. /2 profile Specifies XML profile path. Default profile is take: /1 log_file Specifies indertisation strein for Primary Server		140-480 15-00 Грь 640-480 15-00 Грь 01-52-10-64 U1-52-10-64 U1-52-10-6 500 Кррз D1-52-164	Streaming
(t ddiffisma Specifies time interval after which FME would be res response for the specifies of the specific ddiffication of the specific /s fme_uid Stops FME instance with given identifier . Print all running FME instances if identifier is wr⊃ unspecified.	Uevice : Format : Sample Rate : Bil rale :	Creative Sound Blaster PCL Mp3 Mono 22050 Hz 48 Kbps 75 X	
/u fme_uid Un-register FME with given identifier to not to star automatically a to 3 annch. Prints all registered FME sessions if identifier is i or unspecified. where: auth.string Authentication string.	TMSURL : BackupURL : Stream Name :	livestream	
auth_string Authentication string. Format depends on authentication module. e.g. username:password. ddddbys, hinhcurs, meaninutes. Must be max two ddgits positive integer. fme_urid file_istream.rame if streaming to FMS. Output if the path if only encoding to file.		U9 i Selected video input devi 10 : Selected audio input devi 12 : Primary - Stream Status: 17 : Primary - Stream Status: 12 : Primary - Stream Status: 12 : Session Started 13 : Audio Encoding Started 13 : Video Encoding Started	co: USE Video Ucevice ce: Creative Sound Diaster PCI Success : nonFCPublish NetStream.Publish.Start
Scriptable	Time	oding Statistics Current Dit Rate Drops Frame Ra 475 kbps 0 15- 56 kbps 0	te
 Easy to deploy presets 	Total: 0:00:11	525 kbps 0 Average	
 Windows Server compliant 	Video : 0:00:11 • Audio : 0:00:11	Dit Rate Drops Frame Ra 465 khrs 0 132 47 kbps 0 512 kbps U	47
 Auto start with OS 		Server Buffer Frame Drups 0.00 Ser 0 U.UU Sec U	
Copyright 2008 Adobe Systems Incorporated. All rights reserved. Adobe confidential.	Streaming to Primary		

