

Microsoft Confidential

QuickTime / DirectX Convergence Proposal

Migration to MOV file format

- Microsoft adopts MOV files
 - Phase out WAV, AVI, MID files
 - Re-vector our ASF 2 work into MOV
- MOV becomes the media container for Windows and Mac
- Collaboration between Apple and Microsoft on MOV going forward

Codec Détente

- Cross license all of the codecs that we own between the two companies
 - Most of these codecs are old codecs that just cause our mutual customers pain
 - MPEG4 is our newest streaming video codec
- Collaboration on all future codecs
 - We have a substantial codec group and are hiring aggressively in this space
- Codec plug in model is native to platform

Internet Co-operation

- Enhancing DHTML for multimedia
 - Co-operation on synchronization tags
 - VML+ tags (Vector Graphics)
- Codecs central
- Chrome?

Run-Time

- Run-Time is DirectX on Windows, QuickTime on the Mac
- Microsoft streaming media client for the Mac is branded QuickTime
 - Built on QuickTime run-time
 - Supports Microsoft streaming media server
 - Ships with the Mac OS as the exclusive streaming media client
- We will license DirectX to Apple for the Mac if desired

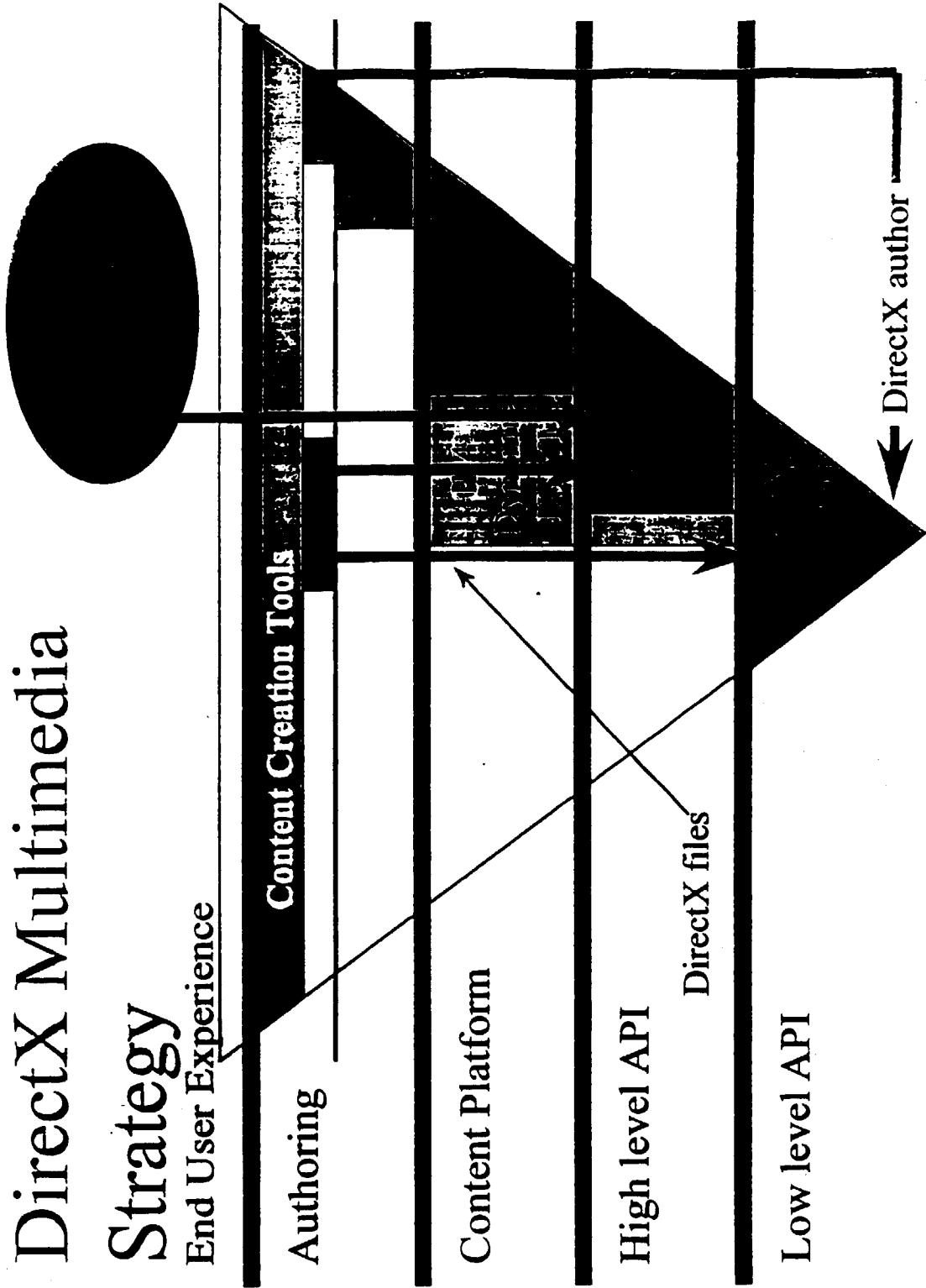
QuickTime Author

- We adopt QT video editing APIs
 - On Windows must use DirectX media run-time
- Apple adopts AAF
 - We will work with the other promoters to make Apple a promoter (we do not believe this will be hard at all)
- Apple and Microsoft work together on MPEG4 and SMPTE standards bodies
 - Get adoption of MOV and AAF technologies

PR & Attribution

- Microsoft announcements
 - Adoption of MOV as the Windows file format
 - Adoption of QT Authoring services
- Joint announcements
 - Adoption of AAF
 - Joint MPEG4 and SMPTE standards efforts
 - Collaboration/Co development of ASF2 as MOV streaming
- Display the QT logo on the Windows Media Player whenever a MOV file is playing
- SDK attribution for QT Author

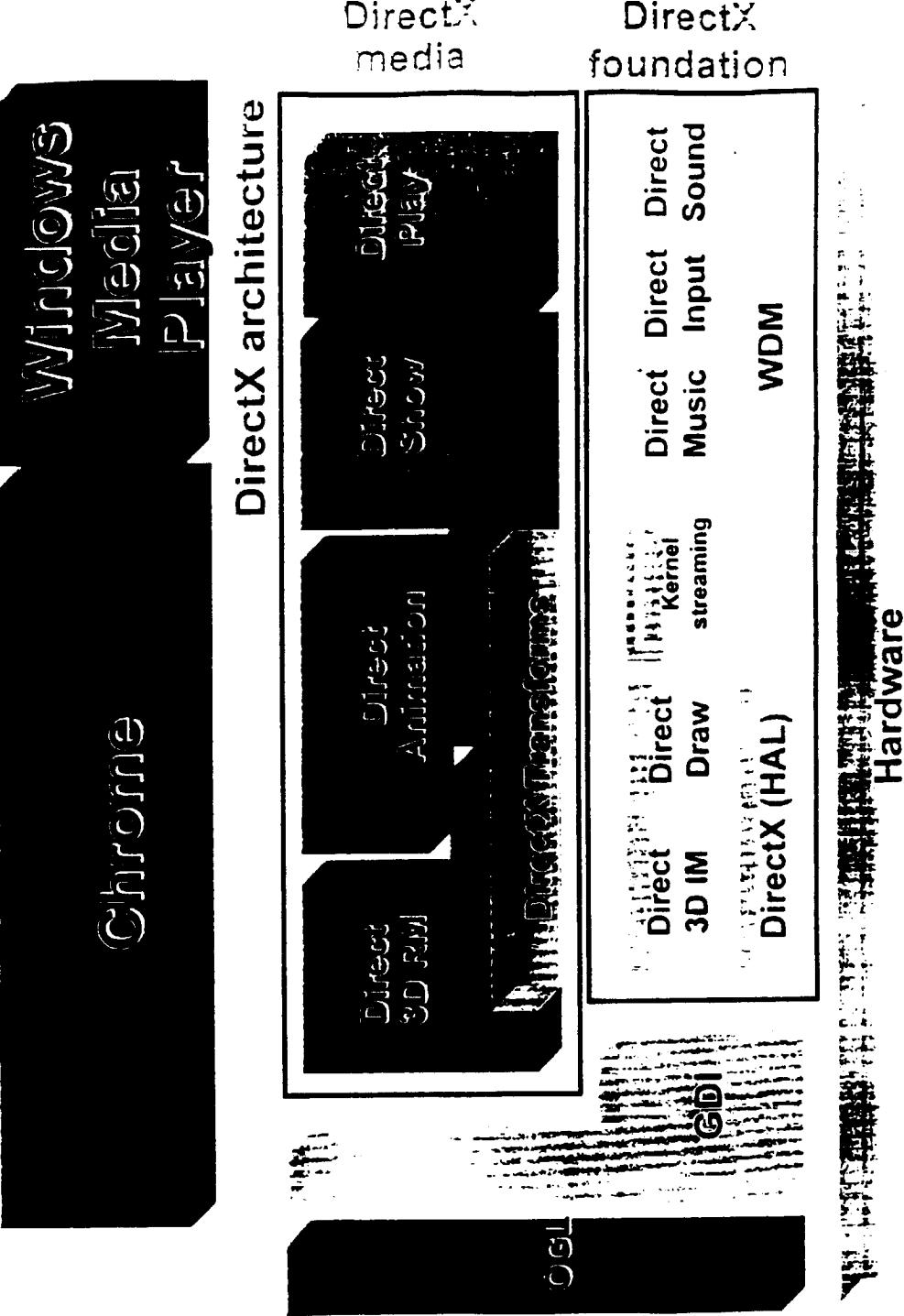
DirectX Multimedia



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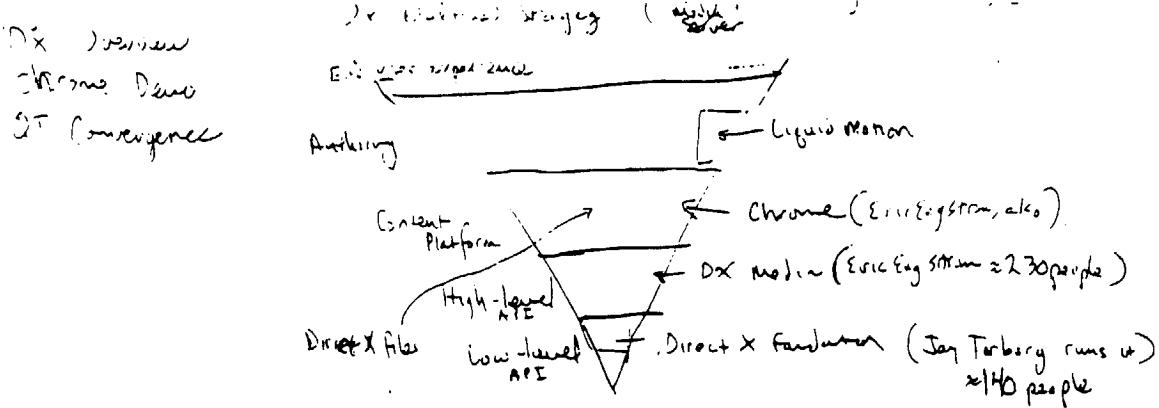
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200 people working on codecs → 400 people soon

Want Apple client to work with MS Network server

[150 people working on streaming server]

- Adopt QT file format
- Resolve Codec mess

[MS claims they have 70% of IP pool
for MPEG-4 codec]

- Can we agree on streaming formats + protocols ?

{
- Protocols
- Codecs
- XML tags}

"Build a unified run-time for Windows; use it in
Office, IE, Windows." - Engstrom

~~HTTP is to strip off windows~~

Monday, June 15, 1998 -
Geo Conf. Room

Eric Engstrom
Chris Phillips
Cristiano Pierry

Phil Schiller
Steve Jobs
Peter Hoddie

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