MICROSOFT – 11/9/95

- Gill
- Maurer
- Anastas
- Weinrib
- Dave Haight
- Landsman

→ Maritz
→ Marshall Brummer
→ Brian Moran — IHPC Pgm Mgr
→ Craig Frebig —

→ Gill: Operating Principles, etc.

→ TOP 5 (Platform)
- → RT services in Win '96/NT
- → 3D
- → DMI
- → USB
- → Video Capture

→ Top 5 (Inet/Apps)
- → RT Protocols
- → App Sharing
- → Data Security
- → Bcast Internet
- → AOAC (& MSN)
- → ISDN

→ App Sharing → *Maritz – will disturb them
get them to be more
Internet – centric
→ ProShare on NT –

→ RT Protocols

→ RTP → Focused on multicast – have we done anything to optimize f/Point-Point?

→ We'll do Indeo 4.1 to make sub-band codec available

→ Planning to implement RSVP & RTP implementations "next year" → "roughly middle of the year"
→ interested in pushing in Multicasting
→ important for cable & satellite

→ NDIS 4.0 work is proceeding → DDK w/ Cairo (late '96)
→ [illegible] for Interactive TV etc.

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GOVERNMENT EXHIBIT 564
PENGAD-Bayonne, N.J.

(A2) Abel W to get together w/ Dave Thompson

→ {Rashid@microsoft.com} * Craig Mundie → Rick Rashid → * Paul Leach → CSD - Technology f/ Broadband, etc

Win/NT engr mgr (network)

→ * Tiger going out w/ Real-time stuff on the Internet next month

→ uses custom protocol (for audio.)

→ Don't want to use RTP for video
→ No vested interest in RTP-like stuff

Maritz: Internet Overview

→ "We're threatened by the Internet"
→ Approach
→ Embrace / Extend / Change (the nature of the Internet experience)

"Clone unashamedly"

→ Client
→ "Clone everything of importance"
→ "Keep [the browser] a commodity"
- no loyalty in users, they'll flip browsers
- "Netscape is nothing but proprietary extensions" — MS will copy everything → "Live Script - Yes"

- Unify Browser w/ Shell/OS
- have common viewers/browsers part of Windows
- common framework for multiple servers/services
- bundle viewers/runtime w/ Windows
- HTML [illegible] + "Office" Viewers

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- use OLE to pull in related viewers
- → View-only apps available free
- "Co-opt 'page-view' as standard view for local and remote info"
- Framework
  - name resolution/access
  - service/security
  - services
- → Had meeting last week w/ all browser vendors except Netscape

HTML page-like view for file mgmt, etc

- → Releases every 4-6 months
  - IExplorer 2 — now
  - " 3 Q1/Q2
  - " 4 - Q2/Q3
- → "Standards"
  - Framesets — "Left Pane/Right Pane"
  - Livescript — "Co-opt Java" → inline code inside a page
- → Value-Added Extensions
  - OCX hosting
  - DOC Obj
  - Shell Integration
  - VB scripting / Sandboxing
  - Secure Download
  - Conferencing / Phone → Data sharing / App Sharing / IPhone
  - RTF extensions in HTML → "Kill HTML by extending it" → 100 or so new
- → Later: Forms Runtime

Looking @ Sandboxing of binary code

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* Server — "Gibraltar"

- MS extensions
  → Blackbird Store, Office Doc Mgmt, SQL, Exchange, ... (Connectors)
- Std Protocols
  → FTP, HTTP, Audio/Video
- Base Server
  → All on top of NT Server / Back office

- Electronic Retailing Services (STT)

→

* Tools

- Redirect authoring environments to "*ML"
  → ex "Forms 3" project — HTML H

→ (only presented 9 of 12 foils)

2 more foils

* Change the Internet Experience

→ Object models
→ Beyond HTTP/URLs — Hyper-G
→ Integration w/ voice/video/telephony
→ 3D
  → Will be taking Talisman to standards bodies, etc.

* "Platform Battle - will fight with both Apps and Systems crews"

"Will fight Internet battle w/ MS content as well as Windows as Platform"

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Maritz →
→ Joint efforts — voice/video/telephony
→ we should follow-up on this

* Java — Maritz

- 2 uses:

• Netscape → small experiments w/in LiveScript in Netscape 2.0

• Sun → Java OS to replace both Win and Netscape

→ Decent development environments (like Vis Basic) needed

→ May need to clone Java, but

→ Need to get OCXs implemented

→ Battle will be:

• Netscape LiveScript vs. VB } → and putting it on Mac

• Sun Java vs. OCXs

→ Maritz: "Can't deny Java"

→ 80-person Developer's Conference last week
→ Intel didn't get invited

* Maritz
→ "Java component model — we should try to keep it from getting established"

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★ Gill → Intel feels Java has potential, going to invest in it

→ a private lab activity

★ Maritz → "We should do it with VB instead ... but don't know how we could help"

"Also help evangelising OCX work"

★ Maerz → ~~Inter~~Web Server

→ Gill: frustration over not being able to get OEM NT license

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★ Intercast

→ Maritz: Direct TV PC w/ Gateway

→ MS would get access to B/W (6 Mb/sec)

→ General-purpose infrastructure for broadcast data

→ handed to content group

→ Re-use of protocols

→ MS will do stack f/ Direct TV

→ Intel can do VBI stack

→ Get capability into Internet explorer

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→ Backend Server / Sequencers

→ Have discussion about MS doing this

★ Bryan → • Server

• Evangelize PC as receiver of video services

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★ → InterCast → Intel + MS decide what to do along Plug-n-Play model

Brian Moran ⟷ Mike Richmond

Checkpoint w/ Moritz & Gill in ~ 1 month

→ IHPC: Gateway i ~ $3K price-point w/ 35" monitor & DBS — breakthrough — w/o satellite "early next year"

→ Hope to ship next year — in time for Xmas

→ Direct TV engagement

→ Combine into video + web experience

→ Building generalized "policy list" implementation
- → SW download
- → Stock tickers
- → Web [illegible]
- → subscriber mgmt
- → security

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* DOJ Deposition / Discovery — 10/31

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