

Cairo Plan Dependencies and Commitments

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Plaintiff's Exhibit
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Agenda

- **Schedule/Status Review**
- **Getting to Code Complete**
- **Getting to Full Product**
 - ⇨ *eliminating dependencies*
 - ⇨ *staffing dependencies*
 - ⇨ *getting there efficiently*

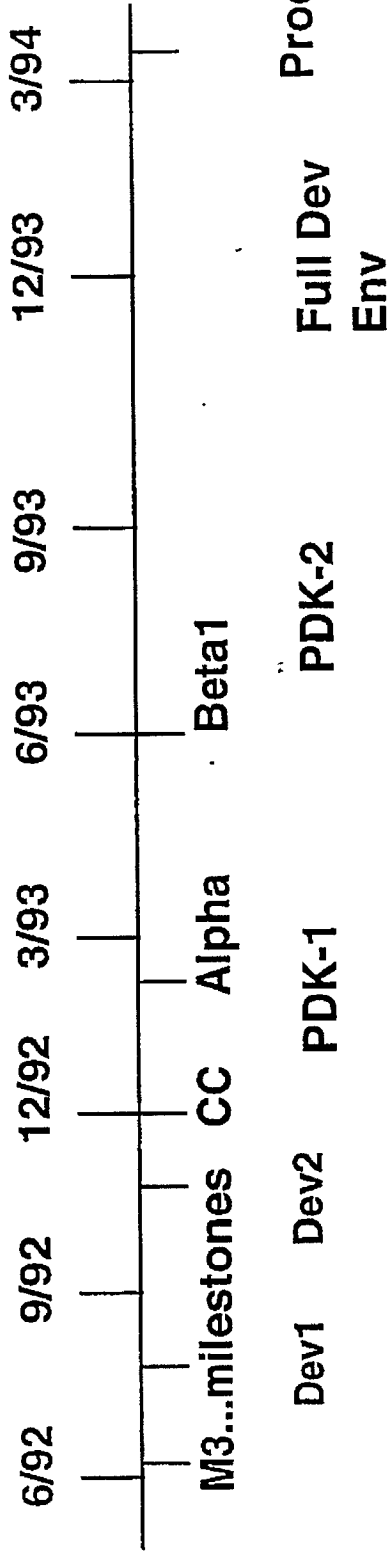
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Schedule (target dates)



- Core Code Complete 12/92 (ofs?)
- Alpha 2/93
- (external) Beta-1 6/93
- PDK-1 1Q93
- PDK-2 3Q93
- Full Dev Environment 4Q93
- PRODUCT 4/94

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Dependencies to Design and Code Complete

- **Tools**
 - Base 32 bit Tools (per NT requirement)
- **External components, Cairo integration required**
 - MacroMan
 - OB components
 - 32 bit OLE2 (note: a 16 bit OLE2 means more work for Cairo)
- **Cairo projects lacking resources**
 - Help/InfoEye
 - Applets
 - Messaging (integration with Object System, UI)

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Dependencies to Viable, Compelling Cairo Product

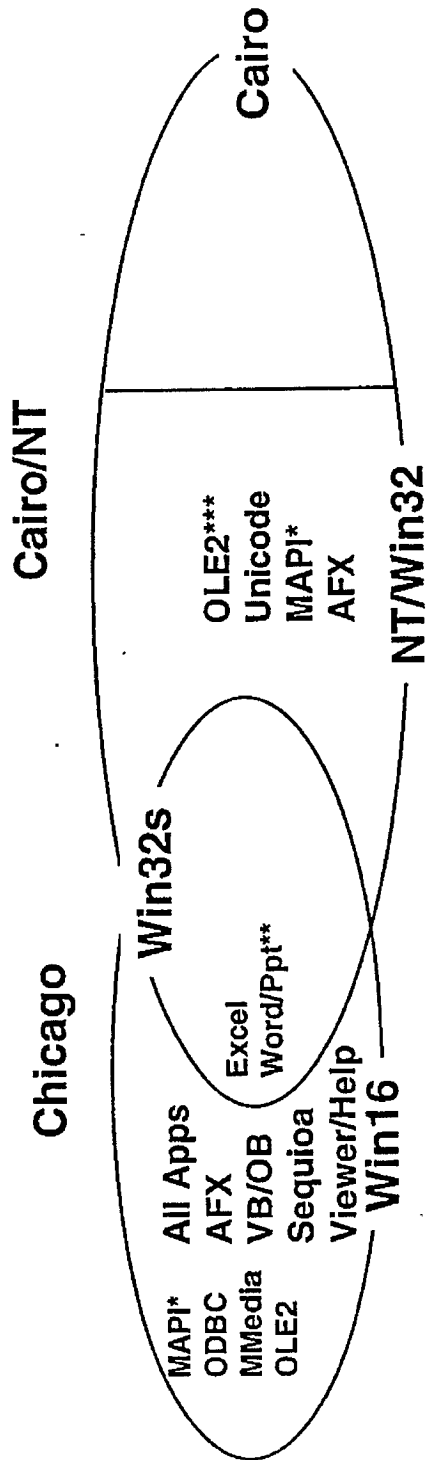
NO (NT or 32 bits) -> NO Cairo
NT Product Issues

- Complete Win32 Platform story
 - 16 bit APIs on Win32
 - » MAPI, ODBC, Licensing, Unicode...etc
 - Baseline Win32 Applications Support
-
- Programmability
 - Integrated Development Environment
 - AFX, Composer, Sequoia, VB
 - User Assistance
 - Key Cairo Compelling Applications

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The Platforms

...and what's on them



MacroMan?
Authoring Tools?

- *In Plan mid93
- **2H93 planned
- ***1993 planned

Note: This ignores the differences between win32/s and win32/s+

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Programmability

- **Macroman**
 - must be 32 bit
 - must be integrated with user interface and user interaction model of Cairo
 - no bodies assigned *anywhere* now
 - no end-user programmability without Cairo macroman
- **Visual Basic (OB based)**
 - must be 32 bit
 - must be integrated with Cairo controls (tied to OB which means tied to Cairo object model)
 - comes probably 9-12m after OB (well into '94)
 - loss of power and customizability of the system

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Integrated Development Environment

- **AFX**
 - integrates old world and Cairo
 - AFX must wrap Cairo and Windows in a consistent manner
 - simplifies writing a Cairo application by hiding Cairo environment details
- **Composer**
 - needs to be expanded to connect to Cairo NLS and Cairo user assistance
- **Sequoia**
 - should be expanded to encompass Cairo object model and user interaction
 - Sequoia (itself) needs to conform

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User Assistance

- **Standard Container Format, Viewer, and Authoring Tools**

- required for InfoBook (Cairo Assistance)
- critical for Cairo and IAYF
- it would be nice if this was Trigger (Viewer 3)
- no commitment to Cairo.

- **View Files**

- required for shell viewing
- competitive issue against Norton -- must be faster
- now targetted for win93
- no commitment to Cairo.

- **Authoring Tools**

- required for making macros, tutorials, etc.
- totally unstaffed anywhere within MS

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Compelling Cairo Applications

- Applets
 - need to increase funds planned for ext. development (given resources not becoming free for win93)
- Messaging (built-in to Cairo)
- Scheduling
- Workflow
- “Delphi” (Notes +)

- *only Delphi has any commitment to Cairo today*
- *Is prior Cairo commitment for integrated messaging impossible given Chicago???*

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Other Issues Affecting Cairo

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Limiting Cairo exposure caused by Chicago

- No new APIs
- No UI Application Style Guide changes
- No new compatibility issues

Productivity loss due to Win93 has been staggering

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The Unicode Issue

- Apps will write to win32s => no Unicode
 - e.g., Excel
- Tools are not uniformly supporting Unicode
- No significant change in sight
- Not an MS-wide, adopted strategy/requirement

Are we serious about Unicode?

Should Cairo use Unicode?

Is it Unicode *and* DBCS?

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Downlevel Support

- More research is required to understand what support should be provided on Win 3.x platforms.
 - How do we provide “DS” access to a user?
 - Is the distributed filing system important?
 - etc.
 - Additional Products for Downlevel Systems?
 - a query type application?
 - others?
- Should we have a Cairo/s ISV strategy?*

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Recommendations

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The Big Picture

- **1992/93**
 - Mainline ISV, MS Apps: Write to Win32, OLE1
 - Specialized ISV, WGA: Start with Cairo SDK
 - Core MS Apps deliver Win32, OLE2 versions
- **1993/94**
 - All MS Apps deliver 32 bit, OLE 2 support
 - Investment in Cairo versions of core MS Apps
 - Major push in Workgroup Applications for Cairo
- **1994 and beyond**
 - Full shift to Cairo Apps for ISVs, all MS Apps
 - Rollout of full workgroup product line

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Key Cairo Requests

- No new 16bit APIs -- 32bit for all new functions
(action: agreement)
- Cairo Macroman (action: assign people)
- Cairo VB/OB (action: prioritize to create Cairo version)
- Cairo messaging integration (action: assign people)
- Cairo basic development tools (action: prioritize
Composer and AFX [min] to create Cairo version)
- Workgroup apps target Cairo as main platform in 1994

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Additional Requests

- Minimal MS App/Cairo Integration (action: assign people)
- Limit Cairo Exposure due to Chicago (action: agreement)
- Target View Files at Cairo (action: prioritize)
- Unicode (action: decision)
- Sequoia focus on Cairo (action: prioritize)
- Authoring Tools for InfoEye (action: assign people/increase Cairo staffing)
- Viewer/Help projects focus on Cairo (action: prioritize)
- Applettes Budget (action: increase)

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