| From:Chris JonesSent:Tuesday, February 22, 2000 10:58 AMTo:Desktop TeamCc:Desktop War Team; Chris Jones Staff; Chris Jones Direct Reports, BriSubject:Desktop Team Status - 02/22/00 |
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Accomplishments/Changes Last Week

- We launched Windows 2000 last week! Congratulations to everyone, your hard work has paid off and you should be incredibly proud!
- We have **completed top level Whistler planning** (priorites, major cuts, etc) and are now in execution mode with their specific plans and dev work.
- Desktop builds are still up and running. We will be driving self-host numbers this week, you should all be self-hosting unless it impacts your short term deliverables (e.g. Millennium, DX8, etc).
- We've made some **organizational changes** in the team. The DX team has "moved over" to join the Dekstop Team, XSG/OpenGL has moved to work for JayTor, and GDI/User/XSG/OpenGL test has moved to work for DMuir. In addition, the desktop UA group from the Professional product currently in Ken Western's will be joining the UA group here. Work is well underway in organizing into one cohesive group and on moving the personnel to this building starting soon and completing by mid-March. We are extremely excited by the synergy and positioning created by this desktop unification.
- We had a **hiccup on reverse integration last** week as we were not prepared to sign off from a test perspective. We will be reverse integrating this week.

Goals Next Week

- **Continue work on Millennium, DX8, and other ongoing deliverables.** These products have revenue impact and are critical for the company, so continue to be the top priority. (all)
- Reverse integrate the Desktop build back into the main NT build. (dpanko)
- Get to week by week schedules for when items go into the Whistler builds, so we can track progress. (all)
- Start Whistler feature work in earnest. (all, where there is bandwidth)
- Complete Standard/Pro plan. (johngray)
- Start thinking about Blackcomb, get Blackcomb website up. (chrisjo, cjdir likely a deliverable in 2 weeks).

Details....

Whistler Update

Well, we are finally through the Whistler planning, and we are now in execution mode. To reiterate our Whistler goals, they are:

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- Sim-ship All Windows Platform Products in Q1/01
- Deliver Consumer NT in 1Q '01
- Deliver 64-bit Early Adopter Release in 3Q '00
- Invest In Our Engineering Process
- Fix Critical Server and Client Deployment Blockers

By team, here is a summary of our Whistler commitments:

Shell Team

- Get Millennium Shell to Whistler/64-bit
- Logon & Security new friendly Logon screen & multiple-user support
- Simple Networking UI
 -new control panel for networking & simplified wizards
- Visual Redesign, Cleanup & Appearance Work
- Desktop v.2 Desktop v2 replaces the current icon metaphor
- Simple Hardware UI AutoPlay for hardware & better HW Wizard UI



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- File Associations- improved mapping of filetypes to applications
- Control Panel Framework new webview to make finding control panels easier
- Taskbar Enhancements improvements to taskbar like glomming & better notifications
- Web Publishing & Sharing one-step publishing to Web, burning to CD, or sharing on network or machine
- File Management Improvements better views of the FS (includes improvements specific to media file types --images/audio/video), simplified common tasks (move/copy) specific to media file types

Printing/Imaging

- Port WIA to Whistler/64-bit
- Port Printing to Whistler/64-bit
- Support MFP devices
- Printing managability
- Driver quality and reliability, including DDK/driver verifier and coverage

Media Team

- Get Millennium audio/dv work into Whistler/64-bit
- Get WMP into Whistler/64-bit
- Glitch-free video/audio playback
- Driver quality and reliability, including DDK/driver verifier and coverage
- Digital TV support

User & GDI Teams

- Get User/GDI/GDI+/Cicero/NLS to 64-Bit
- User, GDI and GDI+ changes to support new UI work and imaging
- Integrate Cicero into OS
- MUI and NLS work for globalization

IE Team

- Port IE 5.5 to Whistler/64-bit
- Fit in with new look and feel (controls, browser UI)

DX/Graphics Team

- Get DX 8 into Whistler/64-bit
- Get OpenGL/XSG to Whistler/64-bit
- Driver quality and reliability, including DDK/driver verifier and coverage
- Performance tuning as appropriate

Attached are the detailed spreadsheets by team:





wia in whistier.xis (76 KB)

Note that Whistler is a date driven release (see the schedule on http://windowsclient/war/schedule.htm), which means we aren't going to be able to do everything we want to do. There are a number of features that we are all passionate about which simply do not make the date and therefore are cut for Whistler. However, we will continue development in many of these areas focused on our Blackcomb ('02) release. We will also consider a select set of features for inclusion in Whistler if we get customer or partner feedback and they are low risk.

Reverse Integration

I am sure many of you are wondering about reverse integration and what's happening. Due to some issues with getting the right test coverage (mainly because test is maxxed out on other deliverables), we did not reverse integrate last week. We will be reverse integrating this Thursday -- all teams are signed up to drive this and deliver. The key for everyone is to:

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- Keep the build quality high.
- Respond to hot fixes.
- Self host, self host, self host

The Future - Blackcomb and NGWS

I thought DebBI in recent mail to her team did a good job outlining our Blackcomb challenges, so I took the liberty of stealing from her mail describing Blackcomb. You have heard of Microsoft's new strategy focused on software as a service, and the Next Generation Windows Services Platform (NGWS). While there is still plenty to figure out, at a high level NGWS is about extending the "platform" we build to be something much broader than the software that runs on single PC or within an enterprise. What is NGWS? It is the platform for creating a world-wide infrastructure of services we and our partners build. Just as Windows established a standard for graphical applications, new standards need to be established for things like:

- Locating, sharing, and exchanging information
- Accessing applications across broad ranges of devices, locations, and types of connectivity
- Accessing personal information anytime anywhere
- Setting up and receiving notifications of important events or combinations of events
- Delivering a platform that enables rich client software to connect to these services
- Delivering a UI that scales and adapts to support this
- And much more..

As with GUI, databases, security, etc., common interfaces, protocols and associated runtimes or services must to be developed to allow clients, applications, and service providers to be built in a common interoperable way. (So people don't need to carry five incompatible personal devices for communication, for example.) Some of these new interfaces and protocols will talk to software running on a PC, but many will also talk to services (directories, authentication services, data stores, etc.) across the Internet. We believe there is a great opportunity for *Microsoft* to deliver the platform - which includes establishing the standards, as well as providing the key services. We will evangelize the platform to the developers writing the new breed of Internet applications, and in doing so we will truly extend the value of the Windows platform from something that runs on your PC, to something that runs in a distributed fashion across the Internet.

As I have mentioned before, we are focused on Whistler first, and we don't have the details of Blackcomb worked out. However, from our work on Neptune, Odyssey, and other projects, we have great ideas and plans we can build from. In some areas, like application platform, there is already thinking going on (MWallent is heading up this effort). Here's a planning schedule we'll be working from:

- March => Start first planning, thinking on Blackcomb, get Blackcomb website up and running (cjdir)
- April => 3 year technical plan, present early thinking (cjdir)
- Post Millennium RTM => Start rolling resources/investments to Blackcomb (cjdir)

Keep Driving To Millennium, Get Moving Towards Whistler...

We are closing in on Millennium, DX 8, and our commitments to Office 10. We are over the hump in Whistler planning and kicking into execution mode. I and my directs will start thinking about Blackcomb in earnest over the next month.

I know we are trying to do a lot so **push back** if you think there is too much going on or if you think schedules are unrealistic. As always, if you have questions let me know.

Thanks -- Chris

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Feature Planning

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10-Feb-2000

Master Feature Template - Whistler Planning

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Why do we have to do this?

We must create a single, permal feature list and spec web site for Whistlor. One of the great breakdowns in Vendows 2010 was that there never was a single feature list or common source of information. The repeat was that the documentation team, SDK & DOK learne PSS, field, marketing and many other had to find how & where each individual group documented their features. etc.

What do we need to do? We are going to mentain 5 works dealetase on WinWeb that tracks all feetures, inits to spece, and reasted info doubt reference. In order to do this, we first need to get to a common XLS formal for feature reases. Then we will be able to mport this spread/stream for the dombase to start out a so you don't have to onter sech form reflectually. Then, WinWeb web pages with bott the reflectual features. spec web pages

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Click on the Features tab below to see the template

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Feature Flanning

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10-Feb-2000

Master Feature Template - Whistler Planning

Please use this spreadsheet for Feature Planning work. You may continue to keep your own detailed models for special purposes, but you might want to use similar columns and column orders to make copy/paste into this format easier. There are 6 required columns (two are easy - Whistler and your GM name).

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Click on the Features tab below to see the template.

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10-Feb-2000

Master Feature Template - Whistler Planning

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| Release Theme GM Team Area SubArea Feature Code Wastler It.list Works Chosio (5) Simple Hardware U My Computer webview & system Cropertise enhancements 28-Apr.00 | Work item |
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| Complete Wastler It Just Works Chosio (5) Simple Hardware U) properties enhancements 28-Apr-00 | |
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| Whistler Consumer Excitament Christo (7) Taskbar enhancemente New notification behavior i 28-Apr-00 | |
| Notification cleanup (e.g., Print dialog | |
| Whistler Consumer Excitement Chrisio (7) Taskbar enhancements to bailoon UI) 28-Apr-00 | |
| | 1 |
| Whistler Consumer Excitement Christon, (7) Taskbar enhancemente Running basks (giomming) 28-Apr-00 | |
| | |
| Vinister Consumer Excitement Consist Construction Denavior (match Oex) 20-Apr-00 | - |
| (c) Web Publishing & | |
| Consomer Excitement Contrajo Shaling Provide P | |
| Consumer Excrement Christia Sharing Burn to CD 28-Apr-00 | |
| Consumer Extension and Consuming Consuming and Consuming | |
| Consumer Excitement Chinaio Shanoo pages 28-Apr-D0 | |
| (8) Web Publishing & Generate web front end (wzard | |
| Consumer Excrement Christo Shanng pages} 28-Apr-00 | |
| t Just Works (8) Web Publishing & | |
| Chrisjo Shaning Shaning wizard 28-Apr-00 | |
| It Just Works (8) Web Publishing S Share files on homenet (wzard | |
| Chrisjo Shanng pages) 28-Apr-00 | |
| (3) Web Publishing S Share files on local machine, with | |
| It Just Works Chrisjo Sharing other users (wizard pages) 28-Apr-00 | |
| Expose common folder and file tasks | |
| (9) File Management dynamidally in Wedrwew (media | |
| Consumer Excitament Unrisjo improvements folders are print 28-Apr-00 | |
| (9) File Waragement Dynamic Outre Flaces list for 29 Apr 20 | |
| ourisiume Exaterne n. Ourisiu improvements ease martigatum 2004/04/00 | <u> </u> |
| (9) Ete Management III (includes increasing the imbaal | |
| Consumer Existement Christia Improvements siza) 28-Apr-00 | |
| (9) File Management New Ties view (icon on left text on | |
| Consumer Excitement Christo Improvements nght) (listview) 28-Apr-00 | |
| (9) File Management | |
| Consumer Excitement Chrisjo Improvements Better sorting and order feedback 28-Apr-00 | |

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| Release | Theme | ĢM | Team Area | SubArea | Feature | Code Complete | Work Item |
|--------------|---|--------------------|---------------------------------------|---------|---|------------------------|---------------------------------------|
| | Consumer Excitement | Chrisjo | (9) File Management Improvements | | New folder thumbnails with 4 min previews Changes to Open/Save dialog | 28-Apr-00 | |
| L | Consumer Excitement | Chrisjo | (9) File Management Improvements | | Moniker support (Save I o support for web, ftp and zip-includes legacy apps like NotePad) | 28-Apr-00 | |
| : : | Consumer Excitement | Chrisjo | (9) File Management Improvements | - | respect view states, thumbnails preferred | 28-Apr-00 | · · · |
| | Consumer Excitament | Chrisjo | (9) File Management | | Population of related apps for special media folders (use open with) | 28-Apr-00 | |
| | Consumer Excitement | Chinsjo | Improvements | | content within webview) | 28-Apr-00 | |
| | Consumer Excitement | Chrisjo | Improvements (9) File Management | P | pictures folder My Video folder on par w/My | 28-Apr-00 | |
| | Consumer Excitement Address the Basics | Chrisjo Chrisip | (10) Architecture | | Pictures folder Slow network/threads/async | 28-Apr-00 28-Apr-00 | |
| | Address the Basics | Chrisjo | (10) Architecture | | Side-by-side of key components (uxctidil) | 28-Apr-00 | |
| | Address the Basics | Chrisjo | (10) Architecture | | General refinements to the shell, other work, TBD | 28-Apr-00 | <u> </u> |
| | Address the Basics | Chrisip | (10) Architecture | | conf UI, error handling, and preflighting) | 28-Apr-00 | |
| | Address the Basics | Chinsjo | (10) Architecture | | Improve thumbnall perf | 28-Apr-00 | |
| | Address the Basics | Chansjo | (10) Architecture | | templates and componentizing | 28-Apr-00 | · · · · · · · · · · · · · · · · · · · |

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Page 3

10-Feb-2000

Master Feature Template - Whistler Planning

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Click on the Features tab below to see the template.

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Feature Planning

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|--------------------|---------------------|-------------------|--------------|--------------|---------------|---|---------------|-----------|
| | | жөда | Kead | Regd | lopt | Regd | Regd | opt |
| Refease | Theme | ĢM | Team | Area | SubArea | Feature | Code | Work Item |
| Vhist er | Cons Excite | ChrisJo | USER | Win32 User | | UI Beforsh for the position (1) | Complete | |
| Vhistler | R just works | ChrisJo | USER | Win32 User | | HIQ Server Integration | | <u> </u> |
| Vhistler | Basics | ChrisJo | USER | Win32 Liser | | Mindow chan service Europe | 31-Mar | |
| Vhistler | Deployment | ChrisJo | USER | Win32 Lse | | Potest surger 1 | 31 Mar | <u> </u> |
| Vhietler | Besics | ChrisJo | USER | Win32 Liser | | Par for | 31-War | <u> </u> |
| /histler | It just works | Christo | USER | Win32 kor | | Bug lixes paspalled from winza | post 3.01 | |
| /histler | t just works | Chrs.lo | USER | | | Hung app Bucpen | 31 Mar | |
| /histler | Basios | Chr.s.lo | USER | Win32 User | | | 3t-Mar | |
| hist er | Deployment | Checks | | willioz User | | Composited pairting | 31-Mar | i |
| histor | Carping man | Carea la | | | | Dynamic Keyboard layout switching | 31-Mar | |
| histor | Ceptoyr Inn | | USER | VVin32 User | | Remove rebool for enabling IMM/ME | 31 Mar | F |
| nister bister | Lepioyment | | USER | Win32 User | | Ut in CPL for cursor blink rate to be sumed off | 31 Mar | |
| nisuer | Liepioyment | ChinsJo | USER | Win32 User | | High resolution monitor support | - 21 Mar | + |
| butter | l | Christo | USER | Win32 User | · · · · · · · | | | |
| nisuel Linelini | II JUST MORE | ~ | | | | Windows User Switching (Code reviewing TS teams v | PMD 0001371 | |
| instier - | It just works | Christo | USER | Win32 User | 1 | Implement Millennum's intelligent features | 31 Mo- | <u> </u> |
| nistier | Basics | Chr s.lo | USER | Win32 User | | Return report that veloces a 2MD minute | | |
| | 1 | Christio | USER | Win32 Jser | | Comment Drame and all the party | 1-Mar | |
| | | | | | | An resistability international works. Zowieks and access to | | |
| SISTER | Deployment | | | | | (his) | | |
| ustler | Deployment | Christia | USER | Win32 User | | Mone II stongs from knowl to user made the Util | 3 8/19/ | |
| istler | It just works | ChrisJo | USER | Win321 ser | ·· | Touch among strong and the to use mode for two | <u>51 Mar</u> | |
| stler | 8 just works | ChrisJo | ÎĜDI - | Win32 GEL | | Todarsa Ber suppor | S1-Mar | <u> </u> |
| stler | I List works | Christo | an | · ////// | | Improve TrueType restenzer robustness for bad fonts | 31-Mar | |
| stier | Winey serily | Chuelo | CDH | | | Remove report requirements for language packs | 81-Mar | 1 |
| stier | Other | Cherento | | WIID2 GDI+ | | Integrate Millennium (maging of support | 15-Feb | 1 |
| otion | | Onrsao | <u>1901+</u> | Win32 GDI+ | | GDIPlus engine | 31-Mar | ſ |
| ISUEI Istici | | ChrisJo | Cicero | Win32 Jaer | | New reput frammrork for FE | 31-Mar | · |
| ister | It just works | ChrisJo | Cicero | Win32 User | | New nout desktop management Lit | 3 1-Adar | I |
| iat er | It just works | ChrisJo | Cioero | Vvin32 User | | New york on | 21 Mai | |
| stler | Deployment | ChrisJo | MUL | MU | | Shell Factors & Constants (Mill another) | 3 1-10187 | |
| nstier | Deployment | Chre.Jo | MUI | MUI | | Control Devide Victor (No. 1990) | 31 Mar | · |
| stler | Deployment | Christio | MUI | | | Contrast Conserver Motorey and 22 Bits MUT | 31 Mer | |
| stler | Deployment | Christin | MU | | | Move U strings in vanszk sys cut of barnel mode | S1-May | |
| stier | If such anotes | Christo | MUI . | - MOI | | No UI simgs in registry for new components | ongoing | |
| stler | It is not according | Christe | MU | | | No rebool for arising langpack - GO (font link CS) | 31 Mar | |
| etiar - | Course | Office Ja | | MUI | | No reboot for adding langpack - USER (IMM) | 21 Feb | |
| oter . | DENG | | | MUI | | Fix postponed bugs | post 3/3 | |
| stier | It just works | ,ChrisJo | MU | MUF | | Admin tool for instal/UI restriction | 11 Mar | |
| ster | Bases | Chris.lo | MUL | MU | | Pul loca drivendoc into MUI | 31-Mar | |
| stier | it just works | ChrisJo | MPUI | MU | | CHSICHT font license for language | 31 Mar | |
| | | ChrisJo | | | | | The Miller | |
| ster | Win8x Parity | | N_S | INLS | | Integrate Millemaum region APts with NLS behaviors | 31 1007 | |
| | | Christo | | | | Integrale Millennium Regional Options, costrol pane | | |
| suea - | Min92 Panty | | NUS | NLS | | changes | St Mar | |
| ster | il just works | ChrisJo | NLS | NLS | | Add Geero UI to Regronal Options control nanel | | |
| (| | Chr sJo | | | + | Add support for the rest of the Index localize (for Office | 2 | |
| | | | | | | 10) Puntaci Gularell, Ortva Telucu, Kanasda Renosti | | |
| ster | Cther | · | NLS . | NLS | | Malayalam & Assamese | 31-Mar | |
| t or | | ChrisJo | | | | Add support for the old Hangal characters for Korean | | |
| | <u>Officia</u> | - | ula | <u>NLS</u> | | sorting (for Office 10) | 28-Apr | |
| 94 CI 14 14 14 | Oaler | ChrisJo | NLA | | | Add support for the Galician and Firstan locals | 31-Mar | |
| stier | Basica | ChrisJo | NLS | NLS | | Fix prefix and postponed bucs | nost 361 | |
| ottor | | ChrisJo | | | | Incorporate suggestions from the performence team to | - past 5-5 - | |
| suer | BEALCS | | N_S | NLS | | improve NLS performance | pps 3/31 | |
| ther | 79k | ChrisJo | | | | Add support for additional locales of the CIS. Kirnhiz | 1 100 | |
| 5001 | | | NLS | NLS | | Mongolian (Cyrillic) Taek & Tunonen | 31-Mar | |
| <u>suer</u> | 68.905 | Chr s.lo | NLS | NL8 | | Add support for an invariant locale | 11.Mar | |
| | | Chan a la | | | | | W F Price | |

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10-Feb-2000

Master Feature Template - Whistler Planning

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Feature Planning

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| | Whistler | Basics Re-engineering | ChrisJo | Imaging | Digital Imaging | Re-engineering | Win2k STL postooned & bughun | 1.Mar.00 | · · · · · |
| L | Whistler | Basics Re-engineering | ChrisJo | Imaging | Diortal Imaging | Re-encineenno | Triace and address all Prefix bury | 15 Mar 00 | <u></u> - |
| | Whistler | Basics Re-engineering | ChrisJo | Imaging | Digital Imaging | Platform requirement | Security and SCM support | 10-Mar-00 | · |
| | Whist er | Basics Re-engineering | Chris.Jo | Imaging | Dirutai Imegion | Platform manyropoot | NT Event lagrage intervention | 10-Mar-00 | |
| | | | | | | - acon requirement | Wine 4 - With Environment and a second | 15-Mar-00 | |
| 1 | Whistler | Basics Re-engineering | ChrisJo | ilmaoino | Digital Imagen | Platform (equirement | No TWAIN entroyed when Loury | 0 (1) 00 | |
| | Whistler | Basics Re-engineering | Chris Jo | maging | Digital Imaging | Pietform for aromost | Marga Mita L Citanud and statistics | ST-Mar-00 | |
| - T - | 1. 11 | | 1 1 | 1 | Signal in Hughing | | THINGH - MOA CI (INIZAIO, app bialogs) | 31-Mar-00 | |
| | Whistler | Millennum Bort | Ohnela | 10000 | In the second | | | | |
| - I | Whetlar | Milennum Part | Chinsda | - in teaching | Uignar Imaging | WIA Architecture | STI Kernel mode drivers for US3 & SCS1 | 28-Feb-00 | |
| -+ | V TI BOLICI | | Christo | imaging | Digital Imaging | WIA Installer | Class installer programming interfaces | 28-Feb-00 | |
| | Wibistian | Millennum Port | Christia | Income | Dentel Income | | | | |
| | Whietlan | Milennum Bert | Ohristo Ohristo | maging | Lugitar Imaging | VVIA Drivers | One scanner and one camera dover functional | 1-Mar-00 | |
| <u> </u> | Without I | | Chrisuo | Imaging | Digital Imaging | WIA Architecture | M cro-driver for flatbed scanners | 15-Mar-00 | |
| - | vvniscier | Milennium Port | ChrisJo | Imaging | Digital Imaging | WIA Scripting | Scripting for device drivers | 15-Mar-00 | |
| ⊢ -f | vunistier | Millennium Port | ChnsJo | imaging | Digital Imaging | WIA Namespace | Camera & Scanner explorer extensions | 31-Mar-00 | |
| I, | A.I | 1 | | | | | Scenner, Streaming Camera and still camera Common | | |
| | wriistier | Millennium Port | ChnsJo | Imaging | Digital Imaging | WIA App Dialogs | Dialogs | 31-Mar-00 | |
| l f | Whistler | Milennium Port | ChnsJo | Imaging | Digital Imaging | WIA App Dialogs | Common spen dialog camera integration | 31-Mar-00 | (|
| 1 | Whistler | Millennium Port | ChrisJo | Imaging | Digital Imaging | WIA Wizard | Scanner and Camera wizard | 31 Mar 00 | ·· |
| '1 | Whistler | Millennium Port | ChrisJo | Imaging | Digital Imaging | "My Pictures" toldor | "My Pictures" folder integration | 31-Mar-00 | |
| 1 | Whister | Millennium Port | Chus. lo | Imeging | Digital Imaging | Screepenver | My Debute Concerning and | 31-Mar-00 | |
| r | Athistler | Millennum Port | Chasle | Imaging | Distal Imaging | | Hy Houres Screersaver | 31-Mar-00 | |
| | Albistiar | Millennium Port | Chansle | magnig | Digital Imaging | Wis Paint | MS Paint enhancements to support WIA | 31-Mar-00 | |
| - | Alberter | Milleonning Dest | Christo | imaging | Digital Imaging | VVIA Drivers | PTP 15740 (dr.verless model for cameras) | 31-Mar-00 | |
| | Albertien | Willemson Port | Christo | Imaging | Digital Imaging | WIA TWAIN Compat | TWAIN compatibility layer for applications | 15-Apr-00 | |
| -P | vriistier | infilemum Pon (DRIVERS) | ChrisJo | Imaging | Digital Imaging | WIA Drivers | Port relevant Millannium drivers | 28-Apr-00 | |
| | CR | Consumer Excitement | Cheelo | Imagina | Dendad Jaco and | 1 | Imaging applet replacement - end user features | | , , |
| | | | Cillisoo | maging | Digital imaging | imaging | (not programmatic) | 30-Jun-00 | |
| | 8. Harris I | M | a | I <u>.</u> | | | SDK - update samples, documentation, etc. as | ongoing | |
| | vnistier | Millennium Port | ChrisJo | Imaging | Digital imaging | WIA SCK | needed | maintenance | |
| | | | | | | | DDK - update samples documentation atc. as | ongoing | |
| | Whistler | Millernium Port | ChrisJo | Imaging | Digital Imaging | WIA DDK | needad | maintenance | |
| - 24 | - John A | ကိုပဲနိုင်ခြင့်ရှိနှင့်နှင့် ကြောင့်နေသည်။ | શ્ર - ગા | Sec. Sec. 7 | and set of the | صربا المأجوا مهاجيرة | was a sume and and the second of a | | المعلى في التي التي ال |
| | N | lura a | I | | | | 1 | | 395 26 22 235 260-34 2 4 |
| - 1 | Vhistler | MEP Support | ChrisJo | šmaging | Digital imaging | WIA Architecture | Instalier - support for MFP scanner component | 31-Mar-00 | |
| | Alberther | | | | | | | | · · · |
| -6 | Vriistier | MFP Support | ChrisJo | Imaging | Digital Imaging | WIA Architecture | DOT4 integration (bi-directional comm for MEPs) | 15-Apr-00 | (|
| | vnistier | MFP Support | ChrisJo | Imaging | Digital Imaging | WIA Wizard | Add ADF UI (needec for MFPs) | 28-Apr-00 | |
| U | Vhistler | MFP Support | ChrisJo | Imaging | Digital Imaging | WIA Wizard | Scan to fait from "Scan Wizard" (for MEPs) | 28-Apr-00 | |
| U | Vhistler | MFP Support | ChrisJo | Imaging 🗍 | Digital Imaging | WIA Architecture | Scroll-fed scanner support (MFP support) | 28 4 4 5 00 | · <u> </u> |
| | | | | + | | + | | x0-op-to | |
| V | vhistier | Device Coverage | ChrisJo | limaging | Digital Imaging | WIA Drivers | Add drivers for new scanners, cameras, and MEPs | naveao | |
| ार | | వేష్టికి క్రశారంగ | 11 (L | | | and the second | the state of the second st | | |
| C | SUT I | Re-engineering | ChrisJo | Imaging | Digital Imaging | Platform requirement | WMI internation | 38 4 | e sincher a ser |
| 7 | UT | Consumer Excitement | ChnsJo | Imaging | Dioital Imaging | WIA Namesna-a | Integration with new shall (II (menaned | 20-Apr-00 | |
| c | UT | Millennium Parity | Chrs.in | Imaging | Digital Imaging | 10/10 Design | h Keyl alloa Mut new snell Of tramework | 28-Apr-00 | |
| -16 | ;ut i | New device class | Chus.in | Imacing | Dioital Imaging | MUA Drivers | n name camara support | 28-Apr-00 | |
| 1 | | | | mayng | neren unschulf | WIN UTWERS | mash memory WIA driver | 28-Apr-00 | |
| c | :UT | It just works | Chris.lo | Imaging li | Digitat Imaging | MIA Architecture | m cro-cinver enhancement for consumer scanner | | |
| 1 | | · | | | | Aleniequie | uniter dream? | 30-Apr-00 | |
| _'c | UT | New device class | ChrisJo | Imagino II | Digital Imaging | WIA Drivers | Flach memory card interit potriest es | 00.0-00 | |
| C | ur – | MEP Support | Chris lo | Imaging | Sental Imanuna | AllA Monard R. deale | Careful Sections of Insert notification integration | 30-Apr-00 | |
| ō | UT | Consumer Excitement | Chaste | longing i | | VYUT VVIZARO & CIAIOGS | acrosses schners support (MFP support) | 15-May-00 | |
| - , ~ | | | ,0,11800 | maging | nitirai imading | VVIA I FOUDIOSNOOler | Troubleshabter integration | 30-May-00 | |
| 6 | ur l | New device class | Charles In | | Nr. 1 11 | www.wvizard, dialogs, | | | |
| | <u>.</u> | HOTE GEVICE CINES | OUSUU | imaging | vigitai Imaging | and architecture | Support for photo scanners & transparency units | 31-May-00 | |

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