

Windows Vista as Delphi Development Target & Platform



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There goes the Presentation !

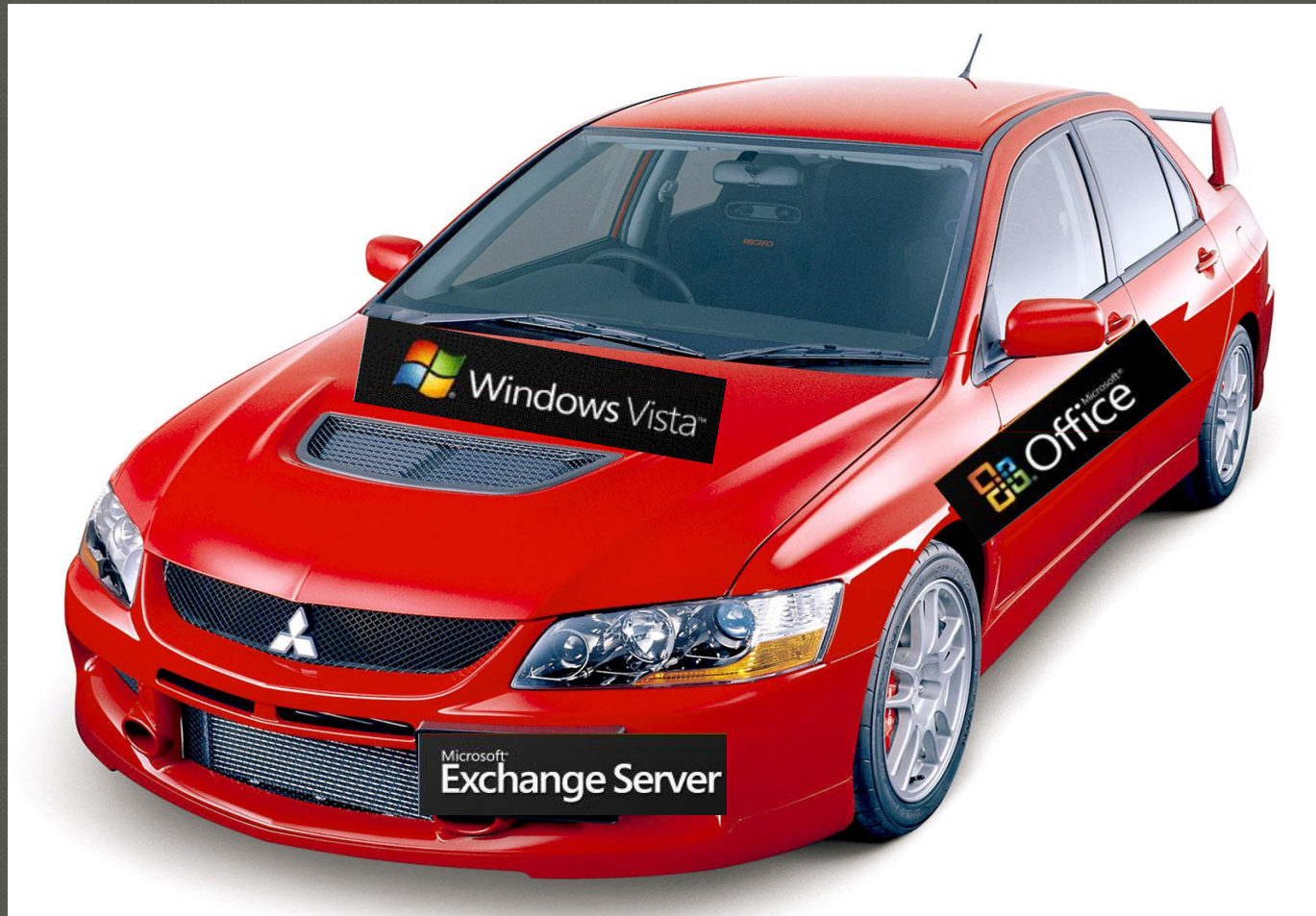
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CodeGear®

Vista Compatibility
Aero Compatibility
AJAX Internet Components

Microsoft EVO



Vista Perspectives

● Network Engineers Perspective

- More Secure
- Where have all the old applets gone ?
- User Training !!!!!!!!!!!!!!!!!!!!!!!

● Vista Editions

Vista product edition	Compare with...	x64 version?	Type
Windows Vista Starter	XP Starter Edition	No	Select countries only, with new PC purchase
Windows Home Basic	XP Home Edition	Yes	Retail
Windows Home Basic N	XP Home Edition	Yes	Retail, EU only
Windows Vista Home Premium	XP Media Center Edition	Yes	Retail
Windows Vista Business	XP Professional Edition	Yes	Retail
Windows Vista Business N	XP Professional Edition	Yes	Retail
Windows Vista Enterprise	XP Professional Edition	Yes	Volume-license only
Windows Vista Ultimate	n/a	Yes *	Retail

Vista Editions Features

- GUI Components

	Home Basic	Home Premium	Business	Enterprise	Ultimate
Windows Vista Basic UI	Yes	Yes	Yes	Yes	Yes
Windows Aero UI ("Glass")		Yes	Yes	Yes	Yes
Windows Flip	Yes	Yes	Yes	Yes	Yes
Windows Flip 3D		Yes	Yes	Yes	Yes
Live Taskbar Thumbnails		Yes	Yes	Yes	Yes
Instant search	Yes	Yes	Yes	Yes	Yes
Live content organization in Explorer windows	Yes	Yes	Yes	Yes	Yes

- OS Components

	Home Basic	Home Premium	Business	Enterprise	Ultimate
Real-time backup and recovery	Yes	Yes	Yes	Yes	Yes
Scheduled backup		Yes	Yes	Yes	Yes
Windows ShadowCopy			Yes	Yes	Yes
System image backup and recovery			Yes	Yes	Yes
Encrypting File System (EFS)			Yes	Yes	Yes
Windows BitLocker Full Drive Encryption				Yes	Yes
Windows SuperFetch	Yes	Yes	Yes	Yes	Yes
Automatic hard disk defragmentation	Yes	Yes	Yes	Yes	Yes

- Ready Boost

Vista – Features

- Vista Aero
 - Transparency
 - Design Requirements
- Flip 3-D
- User Access Control (UAC)
 - Why ?
 - Why not ?
 - Testing Your Apps – Application Verifier Toolkit
 - <http://go.microsoft.com/fwlink/?linkid=52529>
 - Use a Vista Ready Installer
- Live Search
 - Local and network drives
 - Office (SharePoint) Servers

Vista Hardware

- Vista Capable

- P3 with SVGA display

- Vista Premium Ready

- P4 Dual Core
 - Graphics Accelerator with 128 Mb (not Shared)
 - Laptop Issues
 - Nvidia Go chipsets
 - ATI Catalyst Drivers

- Vista Upgrade Advisor

- Vista Experience Index

64 v 32 bit Editions

- My own benchmark testing indicates 64bit Vista 5-10% faster
- 64 bit drivers Very limited
- But Not 'RealWorld' real performance boost as needs 64bit applications
- 64 bit compilers very limited at present
 - No CodeGear 64 bit product

Dual Boot Installations

● Disc Issues

- New Boot Loader
- System Partition
- Boot Partition
- Live Search Issues
- 'Safe' Dual Boot setup

● Data Issues

- Have observed Vista 'Setting Permissions' without being told to do so !

Virtual Machines

- VMWare

- VMWare 5 on XP can run Vista Guest
- VMWare 6 can run Vista Host & Guest
- Supports Multi-core & Dual Processors

- Virtual PC 2007

- Can run both Host and Guest
- Single & Multi-core Processor only

- VMs do not Support Aero

- Always install the 'Additions' tools

Delphi on Vista

● Health Warning –

- I am primarily an Engineer – not a Developer
- I broke several Vista \ Delphi installs trying this out !

● What Versions will run now

- Tested by compiling demos on
 - D7 Update 1
 - BDS 2006 – Trial Edition ☺

● Development Issues Delphi 7 Update 1

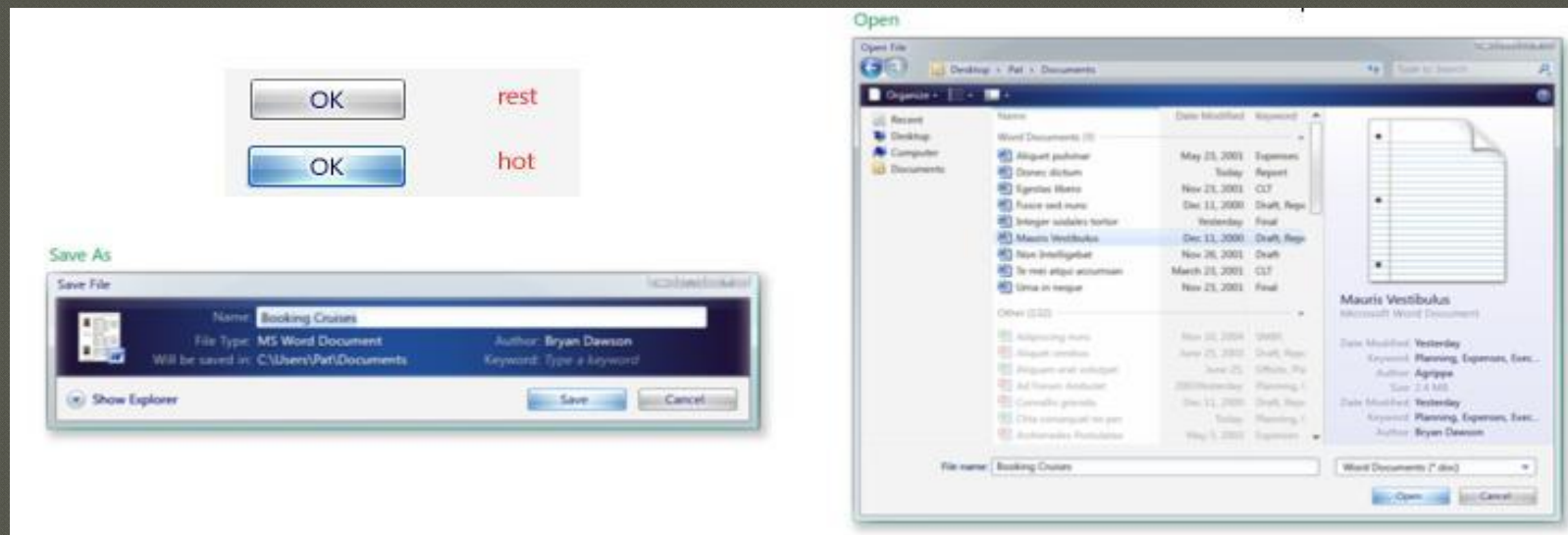
Installation – Compatibility Warning

Compilation – exe's fail to be saved (UAC)

Vista Features – Some Aero features crash

Vista Development Changes – Do's

- Use the Aero Theme and System Font (Segoe UI)
- Use common controls and common dialogs



Vista Development Changes – Do's

- Use the standard window frame, use glass judiciously
- Use icons and graphics consistent with the Windows Vista style and quality



Vista Development Changes - Do's

- Use task dialogs for new or frequently used dialog boxes and error messages
- Use Aero Wizards



Vista Development Changes – Don'ts

- Reconsider using tree view controls.
- Present choices and settings in terms of user goals, not technology

☐ Enable Internet sharing host

☐ Manual duplex

☐ Allow other network users to connect through this computer's Internet connection

☐ Print on both sides of paper

Vista Development Changes - Don'ts

- What's wrong with this control ?



- Right-align commit buttons in a single row across the bottom of the dialog box

Vista Development Changes - Don'ts

- What's wrong with this control ?



- Don't use wizard terminology on controls with simple choices – they should be dialog boxes

Example Application

- This application was compiled on Vista using BDS 2006
- It required core VCL source changes
- Referenced from Nathaniel Woolls Paper
 - <http://www.installationexcellence.com/articles/VistaWithDelphi/Original/Index.html>

Other Thoughts

- Vista Gadgets
 - Simple html controls
 - Maybe 'hook up' to Delphi web service to provide alerts and feedback from Application Servers
- Mimic Office (Windows \ Sharepoint) Services
 - Template Content feeds from Application Servers
 - EVO conceptually compliant
 - Build Office 2007 documents from snippets

Any Questions ?

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References

● Vista Hardware

- <http://technet.microsoft.com/en-us/windowsvista/aa905090.aspx>
- <http://ati.amd.com/support/drivers/vista32/common-vista32.html>

● Virtual PC 2007

- <http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=04d26402-3199-48a3-afa2-2dc0b40a73b6>

● Developing Vista Apps with Delphi – Update

- <http://www.installationexcellence.com/articles/VistaWithDelphi/Index.html>

● MSDN Links

- <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/UxGuide/UXGuide/Resources/TopRules/TopRules.asp>
- <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/UxGuide/UXGuide/Principles/TopViolations/TopViolations.asp>
- <http://msdn2.microsoft.com/en-us/library/aa480220.aspx>