



Windows Vista

- ❑ **Windows Vista Developer Story**

Application Quality – The Guidelines

- Do not assume paths to user's data
 - use the Shell's functions and CSIDL constants
 - use the Service Control Manager for NT services management
- Allow the user to recover his data after crash
 - consider implementing automatic restart of the application
 - use features of the Restart Manager
 - use the Windows Feedback
- Do not force the user to restart the system during auto-update of the application
 - Restart Manager
- Always use the manifest file

Application Quality – The Guidelines cont.

- Always check version of the system and its components
 - API: `GetVersionEx()`, `VerifyVersionInfo()`
 - .NET 3.0: `System.OperatingSystem`, `System.Version`
 - never assume the exact number of version
- Use the User Account Control (UAC)
 - do not assume that the user is an administrator
- Create multilingual applications
- Make your application 64-bits ready
 - 16-bits API functions cannot be used
 - always make tests in both 32 and 64-bits environments

The Windows Feedback

- Data transferred using the Windows Feedback are stored on Microsoft's servers
- The Corporate Error Reporting tool can be used for browsing and managing error reports
- A custom standard of error reporting can be used
- Windows Quality Online Services (WinQual)
 - Microsoft service for developers which allows to receive reports triggered by their software in user's computers

Diagnostics and Performance

- Windows Diagnostic Infrastructure (WDI)
 - a new tool for automatic diagnosis, reporting and solving of problems
- Windows Event Logging Service and Microsoft Event Tracing for Windows
 - extended possibilities for tracing applications
- Performance Counters
 - improved in Windows Vista

Speech API

- Previously a part of the Speech SDK, now it is a part of the Windows SDK and is built-in Windows Vista
- Speech synthesis – text-to-speech (TTS)
- Voice recognition
- .NET Framework 3.0:
 - System.Speech

Windows Shell

- Search, Organize and Visualization Improvements
 - Live Icons
 - Rich Preview
- AutoPlay
 - works for all modern Windows Portable Devices

Data Synchronization

- Sync Center – a new application for Windows Vista standardizing data synchronization between:
 - computers
 - computers and servers
 - computers and devices
 - computers and applications
- Synchronization Manager API

File Dialogs and Controls

- A new way of using standard file dialog boxes was introduced
 - interfaces: IFileDialog, IFileOpenDialog, IFileSaveDialog
 - easy way for customizing
- New controls built-in Windows Vista:
 - Windows Explorer
 - Namespace Explorer
 - Internet Explorer