Microsoft Mobility Overview

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Overview

- Microsoft Mobility Strategy
- Pocket PC 2002
- Windows Powered Smartphone 2002
- Microsoft Mobile Information Server (MMIS)
- Microsoft Mobile Developer Tools
- References

Microsoft Mobility Strategy

- Mobility Vision
- Mobile Workforce Challenges
- Mobility Strategy
- Mobile Device Family

Mobility Vision

Vision in 1975

"A computer on every desk and in every home"

Vision Today

"Empower people through great software any time, any place and on any device"

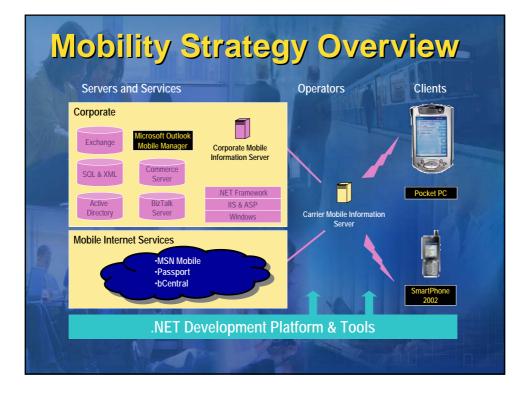
Mobile Workforce Challenges

User Needs:

- Access to the right information anywhere, anytime
- Help service customers faster
- Make the experience seemless with intelligent management of communications

Enterprise / IT Require:

- Maintain high-level of security
- Manageability of devices on the network
- Smooth integration with existing systems
- Reliable infrastructure for 24 x 7 availability





Goals of Pocket PC 2002

A Better Pocket PC

- Incorporate customer requests
- Evolve (not overhaul) Pocket PC

The Best Enterprise Device

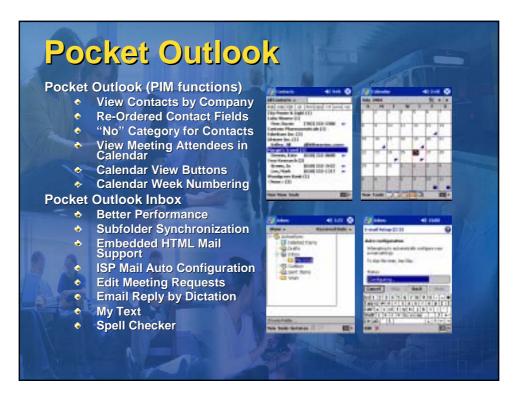
 Deliver new functionality targeted to biz users

The Most Connected PDA

- Offer the most connectivity choices
- Provide the best platform for wireless communications



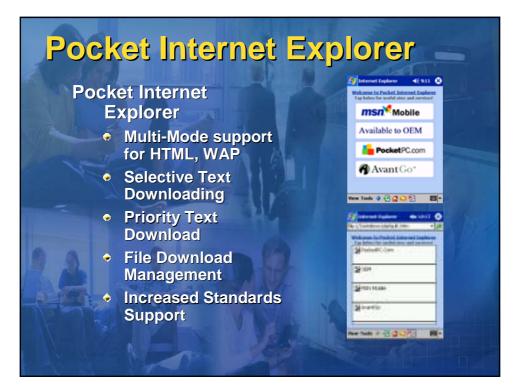


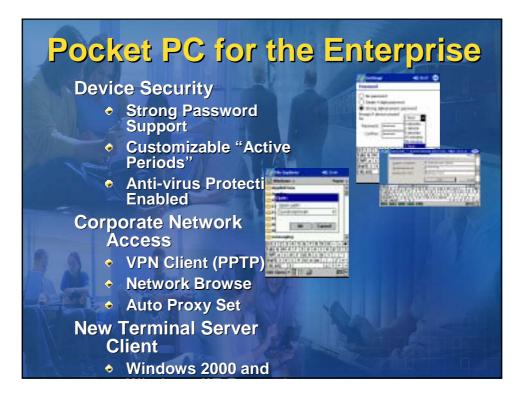


















What is a Smartphone 2002?

Vision

Smartphone 2002 is the best device for verbal and text communication while mobile

Smartphone 2002 excels at accessing up-todate PIM and personally relevant Internet content

Goals

- Be A Great Phone First
- Remote Control for Communications
 Management
- Up and Running in 5 minutes with No Support
- Over-the-Air Device Management from Web with No Support
- PIM and Mail Synchronization

Home Screen

Home screen is the device focus

- Operator and user information
- Device network and hardware status
- Call progress
- Updates: new messages, web links, etc.

Central access point

- Minimize steps from here
- Data no more than two clicks away

Customisable

- Customers are different:
 - businessman / student
- Carrier can adapt home screen to suit customer
 - Code plug-ins, layout is configurable



Smartphone 2002 Applications

Pocket Outlook

- Contacts
- 🔹 Calendar
- Tasks
- Inbox (email, vmail, sms)
 IMAP 4, POP 3

Telephony

- Integrated phone dialling
- Profiles
- Microsoft Smartphone 2002 Shell
 - Win32 API platform
 - One-handed navigation

Instant Messenger

Internet Explorer

- Scripting support
- XML
- HTML 3.2/WAP 1.2.1

ActiveSync

- Desktop ActiveSync
- Server ActiveSync

Media Player

Game

Device & Application Management

Mobile Information Server 2002

Extends Reach of .NET based Enterprise Applications Launched Q1 2002 Make Your Organization Mobile Outlook Mobile Access Extensible Architecture for Developers

Mobile Enable the Enterprise

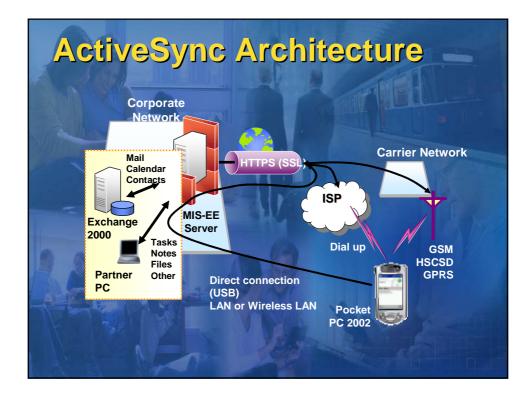
Mobile Gateway Functionality Notification Routing High Security Internet and Wireless Standards Support Mobile Device Support Integration with Windows 2000 Enhanced Security International Support

Outlook Mobile Access

Ships with MIS Enterprise Edition Out
of the Box ProductivityTight Integration with ExchangeRich Browsing from Mobile DevicesPush NotificationsMicrosoft Server ActiveSyncVoice Call OptionWorldwide Support2 Calendar
3 Contacts

4 Tasks 5 Configuration

Inbox



Mobile Solutions and Services

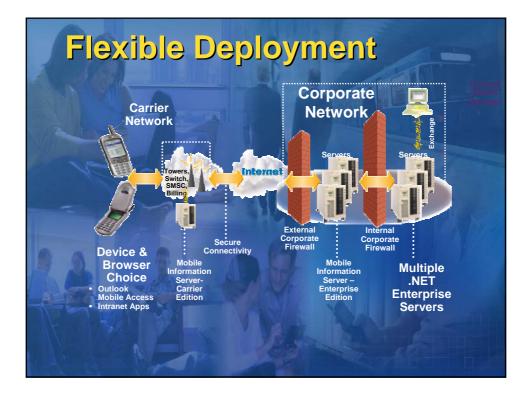
Access Mobile Web Forms Securely Scalability and Performance Management Tools Administrative Tools Updated Software Development Kit

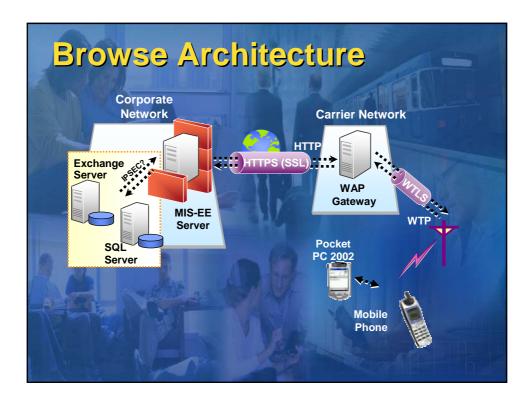
Outlook Mobile Manager

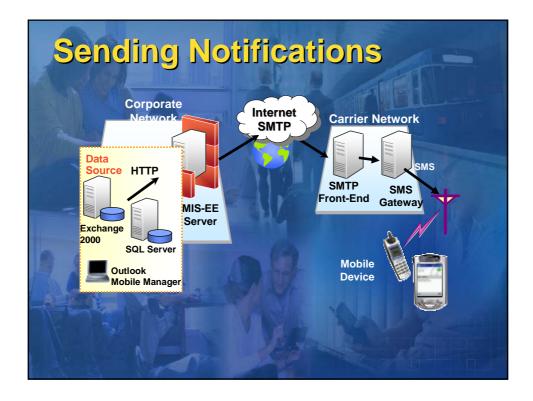
Desktop add-in for Outlook Extends MIS Notification functionality

- Daily Summaries
- Meeting Reminders
- Intellishrink'
- Prioritised message delivery
- Personal profiles Work, Home, OOF etc









Using Notifications

Exchange 2000 Required

- Uses an Exchange Event Source to fire notifications
- User sets rule in Outlook to move items to a special folder

MMIS-Carrier Edition role

- Using MMIS-CE, notifications sent as HTTP/SSL
- If no MMIS-CE available, notifications are SMTP

SMTP

- Notifications are clear text mail sent over internet
- SMTP Header consumes valuable space in SMS payload

Mobile Information Server Summary

MIS is a platform for applications

- Outlook Mobile Access for Exchange
- Notifications from server applications
- Direct Synchronisation for Pocket PC

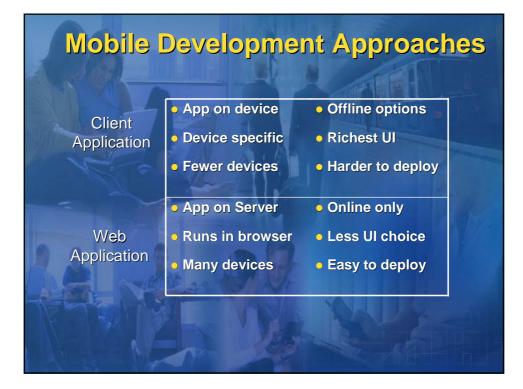
Best experienced with

- Exchange 2000
- Your carrier's MIS-CE offering
- Pocket PC 2002

Developing Mobile Applications

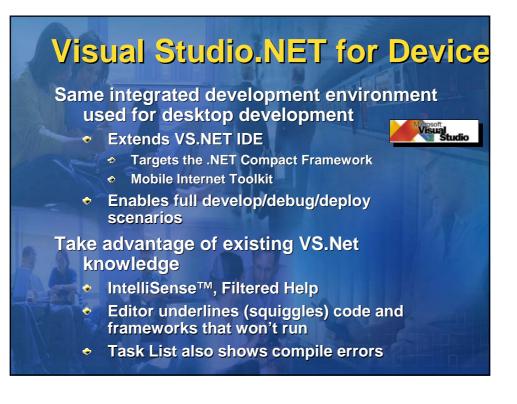
Mobile Development Approaches Development Tools

- Embedded Visual Tools
- Visual Studio.NET for devices
- .NET Compact Framework
- Microsoft Mobile Internet Toolkit



Desktop development environment for creating applications and system components for Windows® Powered devices Dotter Development Kits (SDK) available for environment for creating between environment for cre

- Low cost Tools are FREE, Web download, or order from Web.
 - Also ships FREE with Platform Builder 3.0.



Debugging, Visual Studio.NET

Same user experience as desktop

Supported features include

- File copy and run (F5) Emulation/Deployment mode
- Source code breakpoints & single-step
- Stack trace
- Variable inspection

Device Emulation

- Robust, accurate device emulation
- Runs Windows® CE operating system on Windows XP
- Emulates localized versions of the operating system
- Multiple device transports
 - TCP/IP, IrDA, Bluetooth, Serial ...

.NET Compact Framework

.NET Framework for smart devices Optimized for resource economy Compatible:

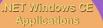
- Same programming model
- Same binary file format

Device, CPU, OS independent

Platform Abstraction Layer (PAL)

Enable rich client Web Services and line of business applications

Target devices without being a device guru



NET Desktor

,NET elidoM Phone Abolicatio

Microsoft Mobile Internet Toolkit

Write-once mobile web pages

- From a single code base target multiple devices
- Separate code from presentation layer
- Support for a variety of devices • Web enabled Cell Phones, PDAs and Pagers Support multiple mark-up languages • WML1.1 (WAP); cHTML 1.0, and HTML 3.2 Customizable and extensible framework • Add new controls and support for new devices Integrates with Visual Studio.NET
 - World-class development tool

Review

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- Microsoft Mobile Information Server (MMIS)

Microsoft Mobile Developer Tools References

References

General sites

- http://www.microsoft.com/mobile/
- http://www.microsoft.com/mobile/developer/default.asp
- http://msdn.microsoft.com/vstudio/device/overview.asp
- http://www.microsoft.com/business/mobility/

Microsoft Mobile Internet Toolkit

http://msdn.microsoft.com/library/default.asp?url=/library/e n-us/mwsdk/html/mwstartpage.asp

Microsoft Mobile Information Server

http://www.microsoft.com/miserver/

Germany

- http://www.microsoft.com/germany/ms/netserver/miserver/default.htm
- http://www.microsoft.com/germany/ms/mobile/