

What's New in .NET Compact Framework 3.5, Visual Studio 2008 for Devices and Windows Mobile 6 SDK

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WHOIS?

Mark Arteaga

- Device Application Developer MVP
- Professionally coding for about 10yrs
- Partner with OpenNETCF Consulting
- Windows Mobile Enthusiast



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Visual Studio 2008 for Smart Devices Overview

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Unit Testing for Devices

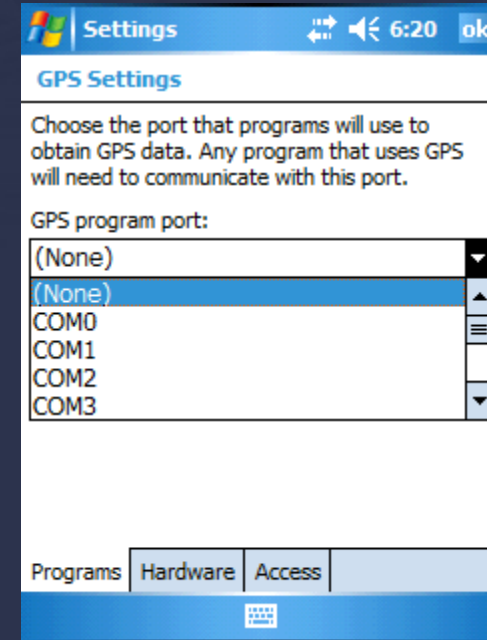
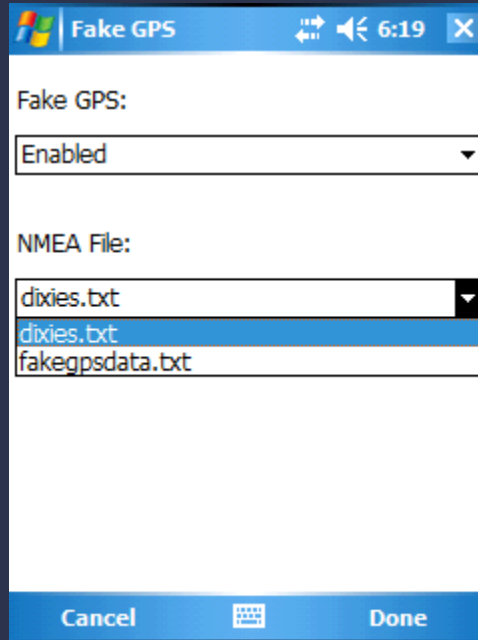
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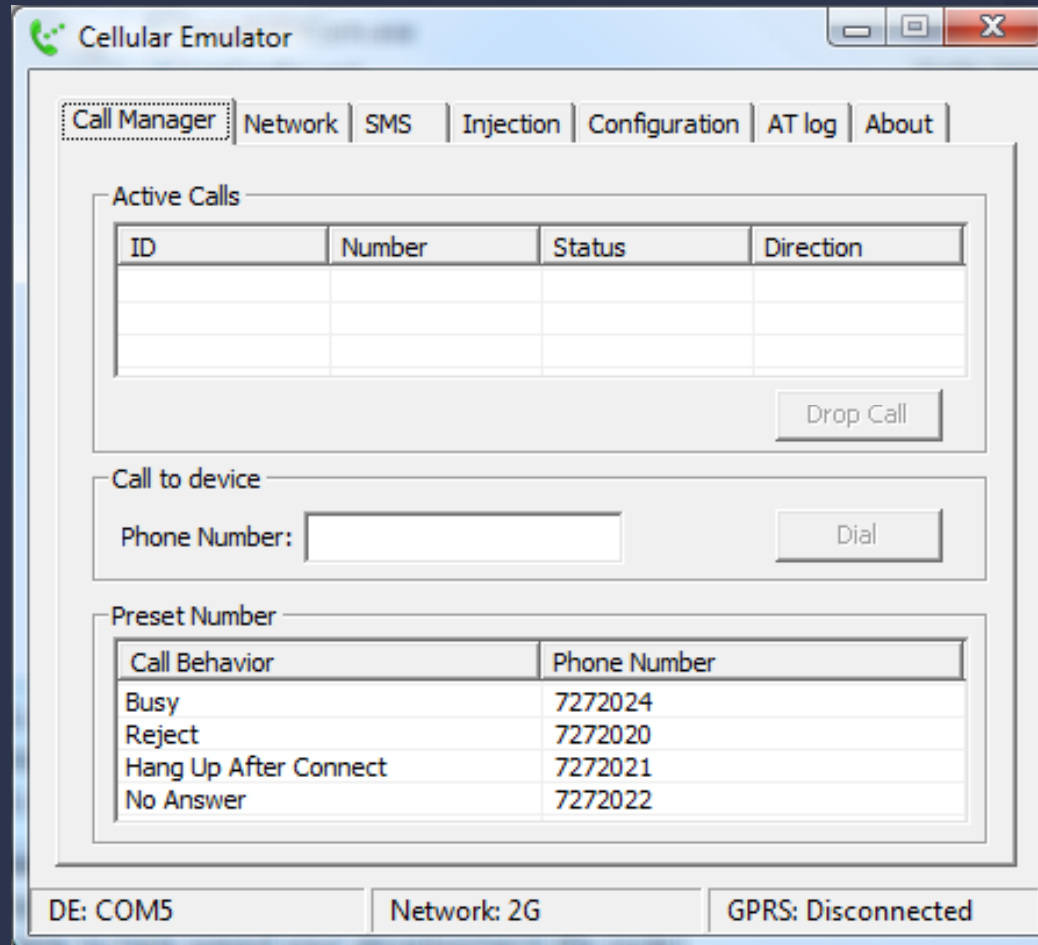
Windows Mobile 6 SDK Tools

- Fake GPS



Windows Mobile 6 SDK Tools

Cellular Emulator



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.NET Compact Framework 3.5

- SoundPlayer, SystemSound, SystemSounds
- Compression
- Logging Enhancements
- Runtime Tools – CLR Profiler, Remote Performance Monitor
- C# 3.0
- Subset of LINQ
- Subset of WCF

C# 3.0 for .NET CF 3.5

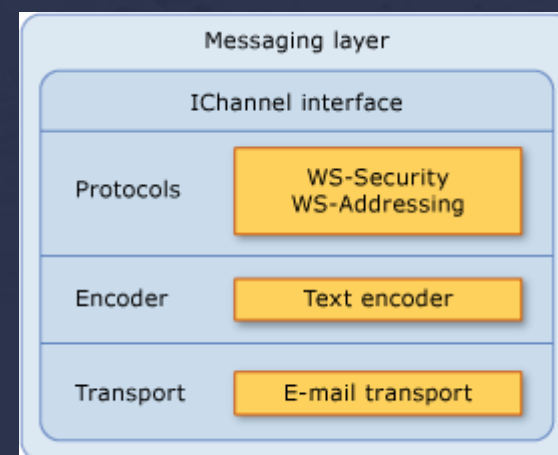
- Auto Implemented Properties
- Extension Methods
- Anonymous Types
- Implicitly Typed local variables
- Implicitly type arrays
- Objection Initializers
- Collection Initializers
- Lambda Expressions
- Query Expressions (aka LINQ)

LINQ for .NET CF3.5

- Supported LINQ to
 - Objects
 - Xml
 - Datasets
- Not Supported LINQ to
 - SQL

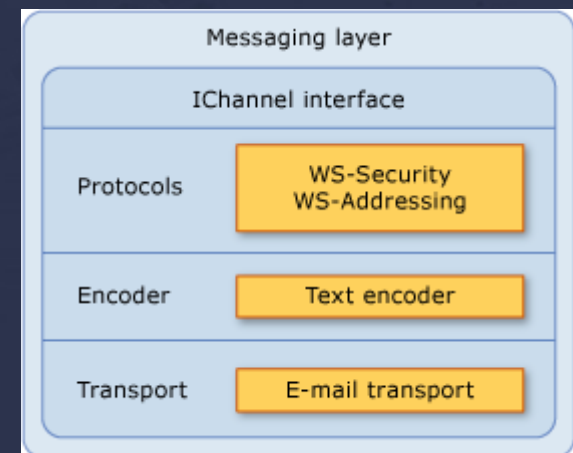
WCF for .NET CF3.5

- Bindings
 - BasicHttpBinding
 - CustomBinding
 - WindowsMobileMailBinding
 - ExchangeWebServiceMailBinding
- Transports Supported
 - HttpTransportBindingElement
 - HttpsTrasportBindingElement
 - MailTransportBindingElement
- Not Supported
 - MSMQ
 - TCP
 - NamedPipes



WCF for .NET CF3.5

- Mail Transport Requirements
 - Windows Mobile 5.0+
 - Exchange 2007 for Desktop Application
 - Exchange 2003 SP1 for no desktop
 - .NET CF 3.5
- Tips
 - Service E-Mail folder
 - NoDataContractSerializer



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WCF for .Compact Framework

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Windows Mobile Managed APIs

- Integrating application with Pocket Outlook
 - Contacts
 - Email
 - SMS
 - Appointments
 - Tasks
- SMS Interception
(Microsoft.WindowsMobile.PocketOutlook.MessageInterception)
- Make a Call (Microsoft.WindowsMobile.Telephony)

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SMS Interception

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Get Notified!

State and Notification API or SNAPI

Provides events to state changes on the device such as connection changes, battery level changes etc.

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SNAPI

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Take a Pic!

- Using Microsoft.WindowsMobile.Forms
 - Take Pictures with your camera phone
 - Select contacts from your contact list
 - Select pictures already on your device

WISPLite

- WISP == Windows Ink Service Platform
- Only available to Native developers

OpenNETCF Mobile Ink Library

- Articles on Use – community.opennetcf.com
 - Using the OpenNETCF Mobile Ink Library for Windows Mobile 6
<http://tinyurl.com/3bhxpf>
 - Sharing Windows Mobile Ink with the Desktop
<http://tinyurl.com/377f9u>



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DEVTEACH 

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WISPLite

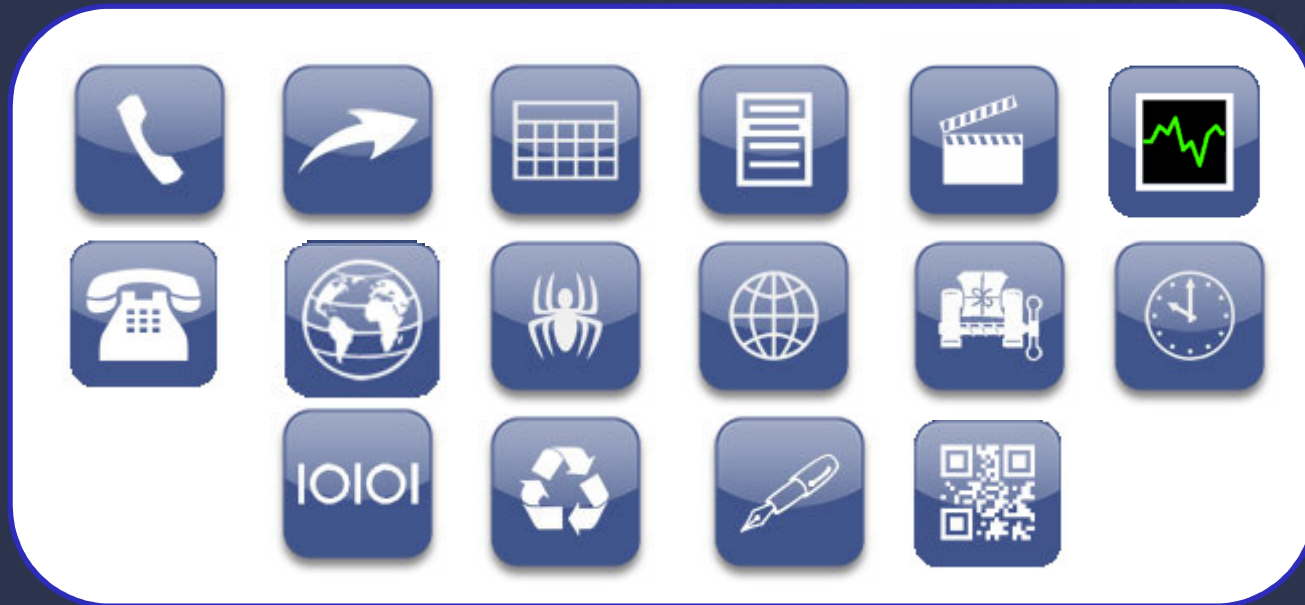
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OpenNETCF Products

Enabling developers to easily write Windows Mobile application by letting them concentrate on their core software instead of platform intricacies.



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Thank You and Useful Links!

My Blog - blog.markarteaga.com

Company Website - www.opennetcf.com

Open source products - www.opennetcf.com/opensource.ocf

Forums, technical articles etc - community.opennetcf.com

Windows Mobile Developer Center

msdn2.microsoft.com/en-us/windowsmobile/default.aspx

Windows Mobile (Canadian Version) - www.windowsmobile.ca

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