

DEV-7: Microsoft .NET + XAML + AppServer = Progress Application?

Frank Möllers and Sushanta Pokharel



DEV-7: Microsoft® .NET™ + XAML + AppServer™ = Progress® Application?

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Under Development

D I S C L A I M E R

- This talk includes information about potential future products and/or product enhancements.
- What we are going to say reflects our current thinking, but the information contained herein is preliminary and subject to change. Any future products we ultimately deliver may be materially different from what is described here.

D I S C L A I M E R



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Who are we

Javra Software

- Founded in 1999 in the Netherlands
- Working with Progress (from version 3) since 1986
- Software development centers in the Netherlands and Nepal
- R&D in Progress, ABL, .NET, Java™ and more
- Among the leading Progress Development centers in Asia (70 programmers)
- Visit us at booth #10



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Agenda

- What is XAML?
- Introduction to the .NET framework
- Why XAML.NET?
- .NET and AppServer interaction with XAML
- Security Issues
- More Examples
- Summary

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What is XAML

Introduction to XAML

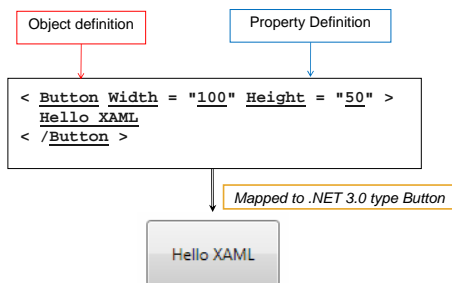
- XAML**: A language for defining GUIs
 - XAML = eXtensible Application Markup Language
- XML** based language
- Declarative** language (without flow control)
- Developed by Microsoft
 - First released along with .NET Framework 3.0
- Standard language for UI creation in .NET 3.0
- Also supported by Microsoft Silverlight™

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What is XAML

XAML Example : Simple Button



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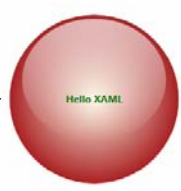


What is XAML


XAML Example : Complex Button

```
<Window>
  <Window.Resources>
    <Style x:Key =
      "RoundRedStyle">
      .
    </Style>
  </Window.Resources>
  <Button Style =
    "{DynamicResource
      RoundRedStyle}">
    Hello XAML
  </Button>
</Window>
```

Style defines shape, color etc.




Button uses the defined Style


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What is XAML


XAML Example : Watch Animation

Animated Watch Using
XAML only!
(no images are used)



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Demo

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Introduction to the .NET framework

What is .NET framework

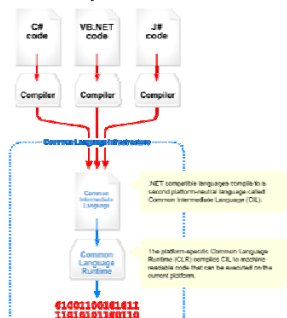
- Execution Environment for .NET programs
- Common Language Runtime: heart of .NET
 - Memory Management
 - Exception Management
 - Security
- Language and Platform independent
 - Programs Compiled to Intermediate Language
 - Mono (UNIX), .NET Compact (windows CE)

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Introduction to the .NET framework

.NET architecture simplified



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Introduction to the .NET framework

Pre-compiled solutions

- Pre-coded Libraries for simplified development / easy integration (BCL/FCL)
 - Low level operations abstraction
 - User Interface Creation
 - Database Connectivity
 - Cryptography
 - Web Application development
 - Network Communication

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Introduction to the .NET framework

Tools for Development

- Visual Studio: the standard tool
 - Microsoft's leading development IDE
 - Object / Data visualization
- Other subsidiary tools, libraries and open source tools
- Microsoft Development platform is a collection of many such tools.

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Why XAML.NET?

Windows Presentation Foundation (WPF)

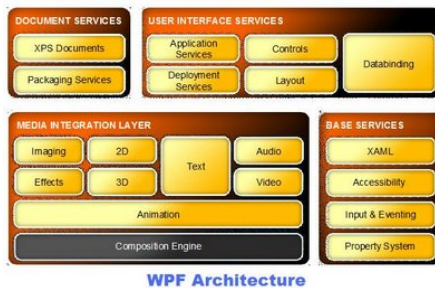
- New Presentation API in .NET Framework 3.0
- XAML for GUI development
 - Separate GUI and program logic
 - Easy coupling of program code and XAML
- Availability of specialized tools for XAML.
 - Multimedia
 - 3-D
 - Template creation

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Why XAML.NET?

Windows Presentation Foundation (WPF)



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Why XAML.NET?

XAML Browser Application (XBAP)

- XBAP = Xaml Browser Application
 - currently only in IE
 - Mozilla is expected
- WPF/XAML based application can run in an Internet Browser
- Almost all features of WPF/XAML available
- Deployment from a server to a system with a single click

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Why XAML.NET?

Tools for XAML Development

- Visual Studio: the standard tool
- Microsoft Expression, suite of products
- Aurora XAML designer
- ZAM 3D

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Demo

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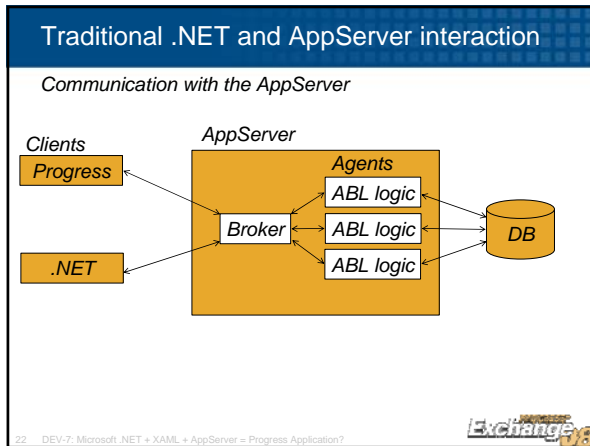
Agenda

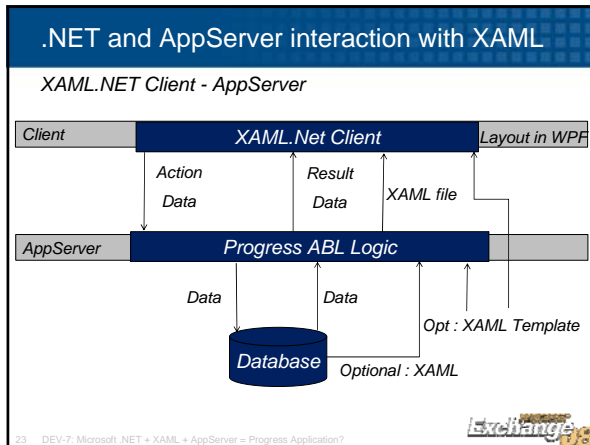
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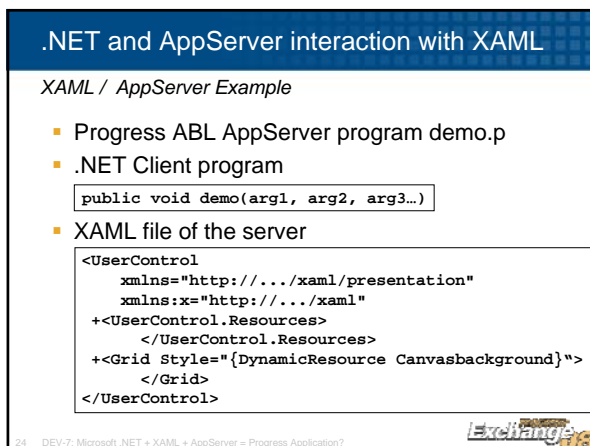
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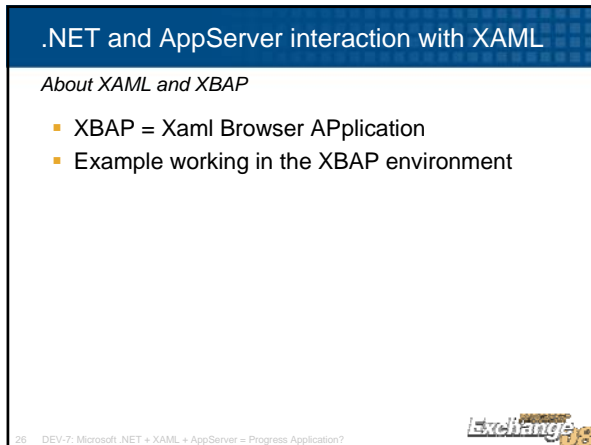
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Security issues


About XAML and .NET

- .NET program can be easily de-compiled
- Strong Named Assemblies Must be Provided
- XAML is plain text and is sniff able
- Compiled .Net code cannot be sent

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X/E files

What have we done with XAML

- Javra Software has been working with XAML since 2005 (one of the first)
- Short demo of X/E files
 - Create a screen in X/E Files
 - Show the newly created screen in Progress
 - Show the same screen in XAML.NET
- No Progress or .NET code needs to be written during the process

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Demo

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Extreme

How far do you want to go



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