

Randy Williams

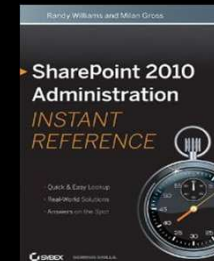
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USING VISUAL STUDIO 2010 TO BUILD SHAREPOINT 2010 SOLUTIONS

ABOUT ME

- US-West Coast Manager for Synergy Corporate Technologies
 - Based in San Diego, California
- Consultant/Trainer/Author
- SharePoint MVP
- Specialty in Architecting Solutions



AGENDA

**SharePoint Developer
Platform**

Visual Studio Templates

Solutions and Features

Debugging and Add-ins

AGENDA

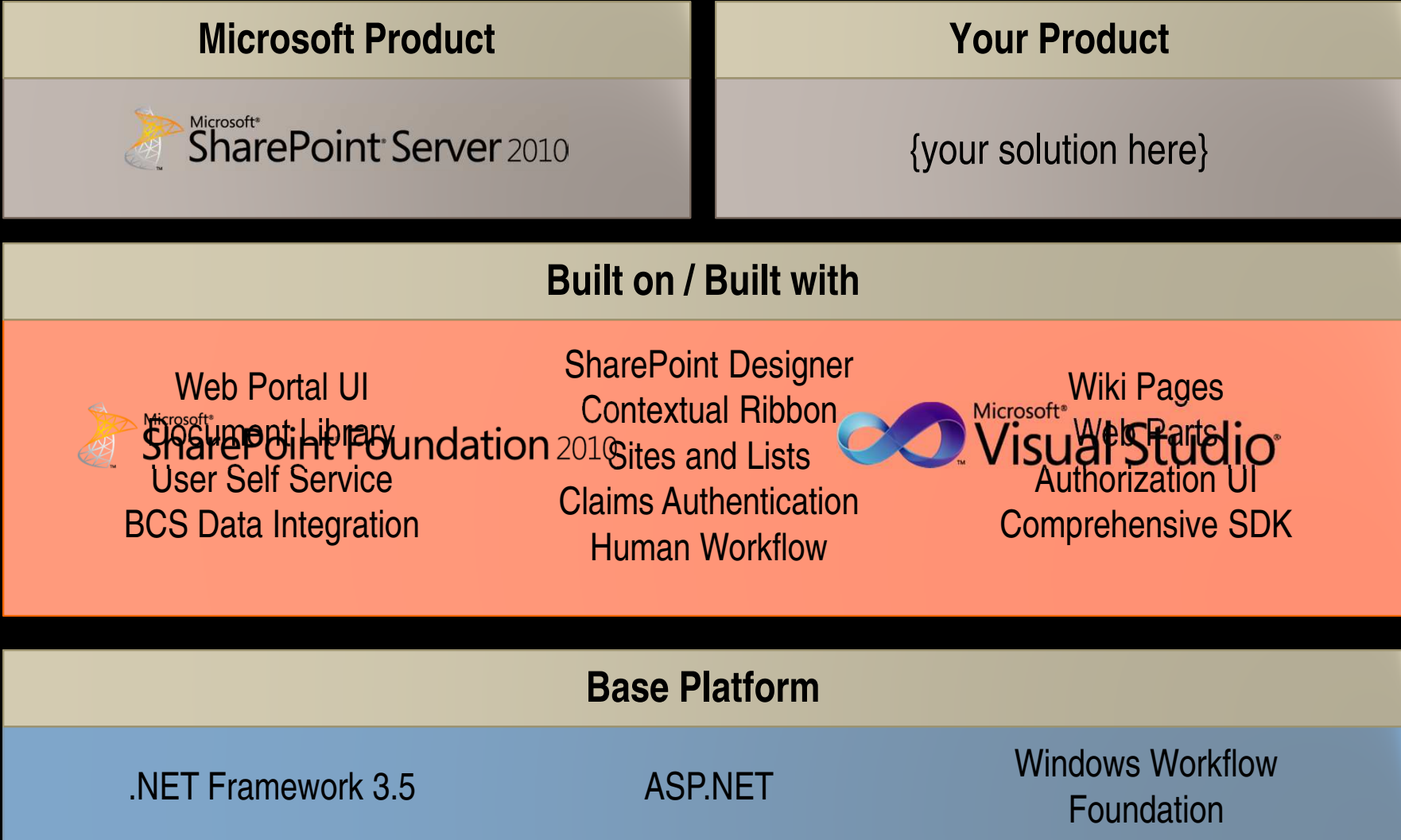
SharePoint Developer Platform

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SHAREPOINT PLATFORM AND PRODUCT



DEVELOPMENT REQUIREMENTS

- Requires x64 operating system
 - Windows 7
 - Windows Vista SP1
 - Windows Server 2008
 - Windows Server 2008R2
- SharePoint 2010 must be installed locally
 - Foundation or Server
- Visual Studio 2010

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VS TEMPLATES AND DESIGNERS

- Project and Item Templates
 - Templates for many SharePoint elements
 - Support for sandboxed solutions
- Visual Designers
 - Design web parts
 - Build Business Data Connectivity (BDC) models
 - Create Workflows
- Workflow Enhancements
 - Site level workflows
 - Templates for association & initiation forms

PROJECT TEMPLATES

The screenshot displays the Visual Studio Project Templates window. At the top, it shows the target framework as ".NET Framework 3.5" and the sort order as "Default". The left sidebar is divided into "Recent Templates" (empty) and "Installed Templates". Under "Installed Templates", the "Visual C#" category is expanded, showing sub-categories like Windows, Web, Office, Cloud, Reporting, SharePoint (with sub-items for 2010 and 2007), Silverlight, Test, WCF, and Workflow. Other categories include "Other Project Types", "Database", "Modeling Projects", and "Test Projects". The main area lists various templates, each with a C# icon and a "Visual C#" label on the right. The "Empty SharePoint Project" template is highlighted in yellow.

Template Name	Language
Empty SharePoint Project	Visual C#
Visual Web Part	Visual C#
Sequential Workflow	Visual C#
State Machine Workflow	Visual C#
Business Data Connectivity Model	Visual C#
Event Receiver	Visual C#
List Definition	Visual C#
Content Type	Visual C#
Module	Visual C#
Site Definition	Visual C#
Import Reusable Workflow	Visual C#
Import SharePoint Solution Package	Visual C#

PROJECT WIZARD

SharePoint Customization Wizard

Specify the site and security level for debugging

What local site do you want to use for debugging?

What is the trust level for this SharePoint solution?

Deploy as a sandboxed solution
Clicking this option causes the solution to be deployed as a Sandboxed solution. Sandboxed solutions can be deployed by the site collection owner and are run in a secure, monitored process that has limited resource access.

Deploy as a farm solution
Clicking this option means that users must have SharePoint administrator privileges to run or deploy the solution.

[Learn more about sandboxed solutions](#)

< Previous Next > **Finish** Cancel

Site used to deploy & debug solution

Support for sandboxed solutions

ITEM TEMPLATES


















Add New Item - WorkflowProject

Installed Templates

- Visual C#
 - Code
 - Data
 - General
 - Web
 - Windows Forms
 - WPF
 - Reporting
- SharePoint
 - 2010
 - Workflow

Online Templates

Sort by: Default

	Visual Web Part	Visual C#
	Web Part	Visual C#
	Sequential Workflow	Visual C#
	State Machine Workflow	Visual C#
	Workflow Association Form	Visual C#
	Workflow Initiation Form	Visual C#
	Business Data Connectivity Model	Visual C#
	Business Data Connectivity Resource Item	Visual C#
	Application Page	Visual C#
	Event Receiver	Visual C#
	Module	Visual C#
	Content Type	Visual C#
	List Definition From Content Type	Visual C#
	List Definition	Visual C#
	List Instance	Visual C#
	Empty Element	Visual C#
	User Control	Visual C#

SANDBOXED SOLUTIONS



Essential Agility

- Simple development model
- Easy & Rapid Deployment
- SharePoint Online

Essential Stability

- Limited API Access
- Monitored Resources
- Site Collection Quotas
- Separate Process

DEMO

CREATING A VISUAL WEB PART

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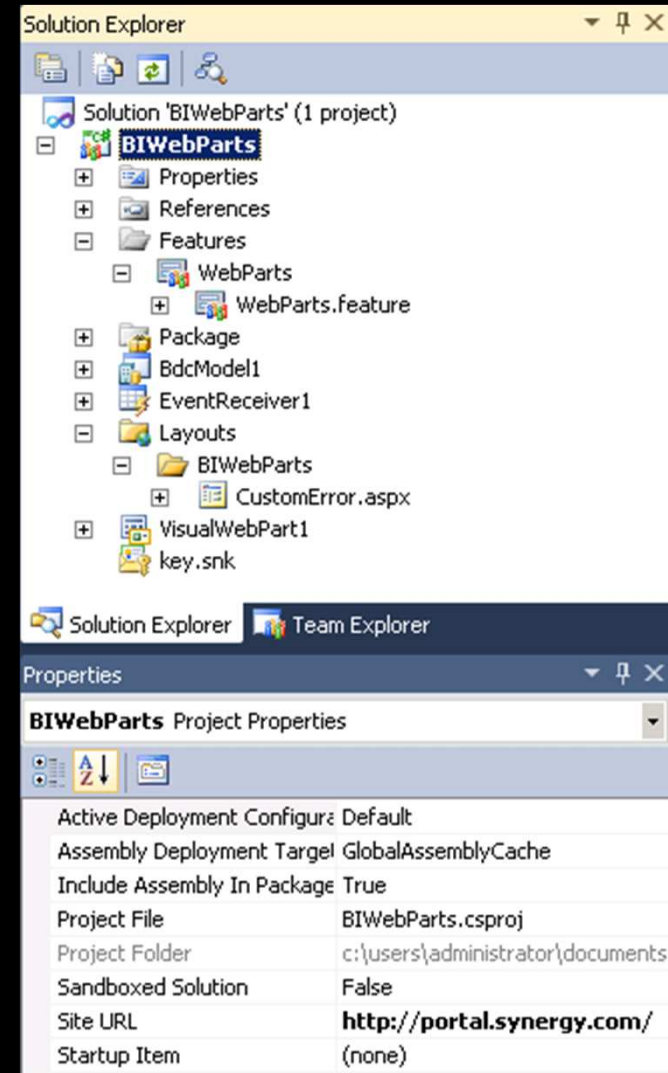
Visual Studio Templates

Solutions and Features

Debugging and Add-ins

VS SHAREPOINT PROJECTS

- Project commands
 - Package, Retract
- Project properties
 - Sandboxed, Site URL
- Features & Package nodes
- Mapped folders
- Project items & files have SharePoint specific properties

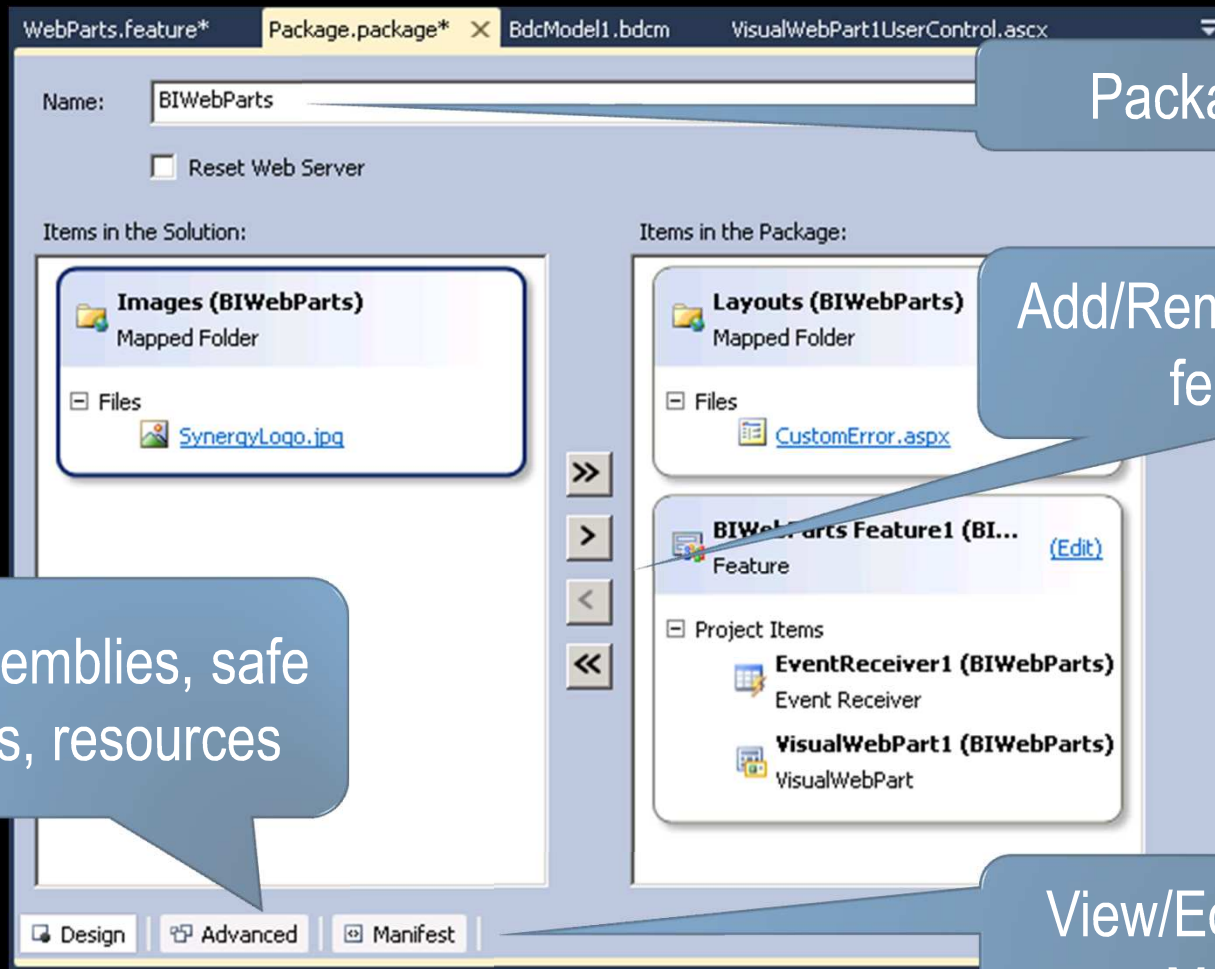


WHAT ARE SOLUTION (WSP) PACKAGES?



- Used to Deploy Code
- Contains all customized files and deployment instructions
- WSP extension
 - Internally a cabinet file
- Created by Visual Studio
- Farm or Sandboxed

PACKAGE DESIGNER



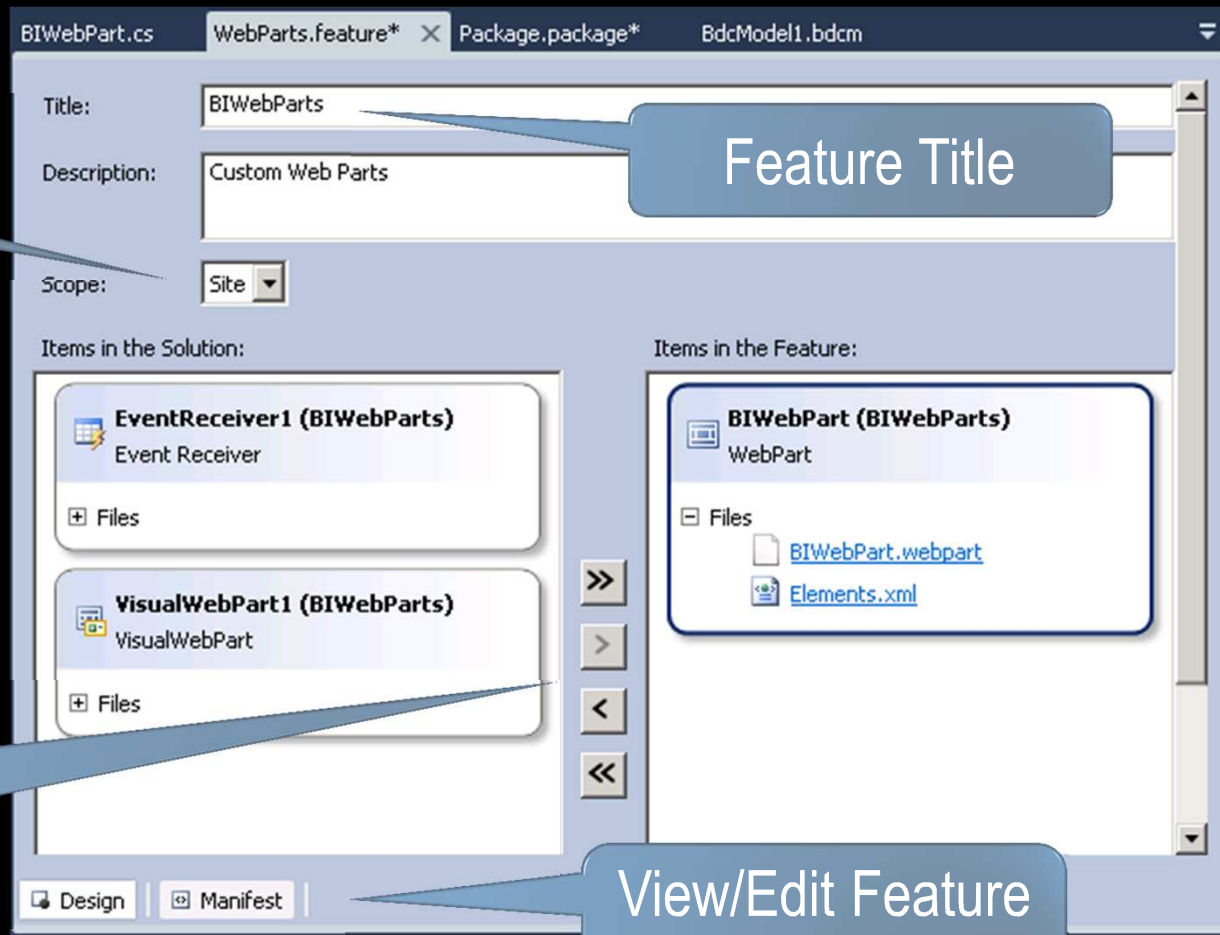
Package name

Add/Remove items & features

Add assemblies, safe controls, resources

View/Edit Package Manifest

FEATURE DESIGNER



Feature Scope

Feature Title

Add/Remove items

View/Edit Feature Manifest

DEMO

WORKING WITH FEATURES AND
SOLUTIONS

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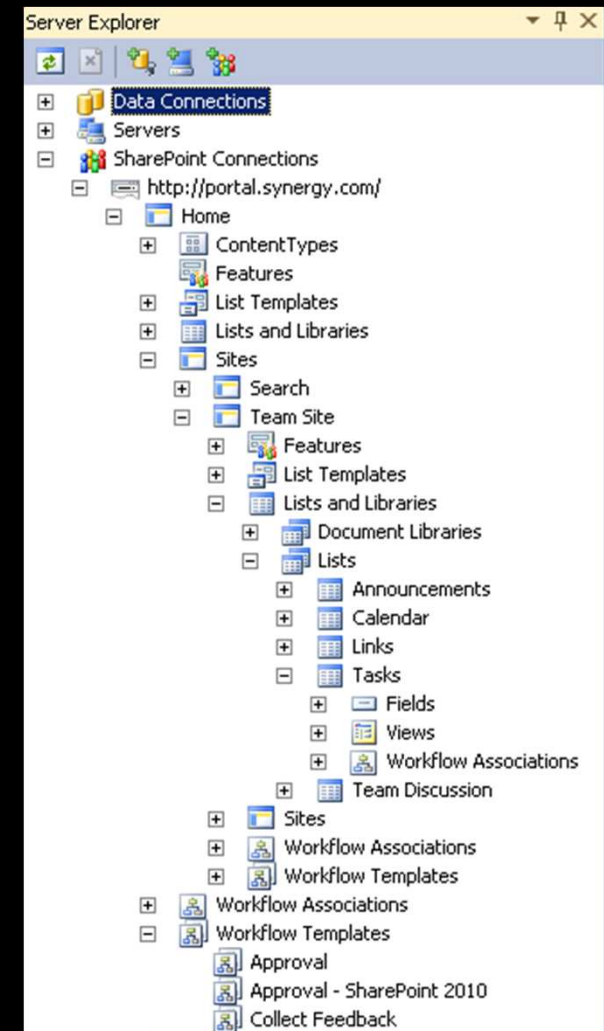
Debugging and Add-ins

VISUAL STUDIO DEBUGGING

- F5 Experience
- Web.config changes
- Can still attach to W3WP.exe process
- Developer Dashboard
 - `stsadm -o setproperty`
`-pn developer-dashboard -pv ondemand`

SERVER EXPLORER AND SHAREPOINT

- Tool window which provides view of local SharePoint sites & artifacts
- View site collections, sites, features, lists, fields, etc...
- View properties for artifacts
- Add any number of connections to different sites
- Read only



SHAREPOINT MANAGER

- Extends the concept of the Server Explorer
- Many properties can be changed
- Separate Windows Application
- Must be run on SharePoint Server
- Do not run against production server!
- Download from spm.codeplex.com

CKSDEV

- Community Kit for SharePoint Development
- Extends Visual Studio Project System
- Just a sample of the add-ins...
 - Automate call to SPMetal from Server Explorer
 - Adding SharePoint references
 - Upgrade from WSP Builder (in beta)
 - Quick Deploy
- Download from cksdev.codeplex.com

DEMO

DEBUGGING AND ADD-INS

QUESTIONS?