



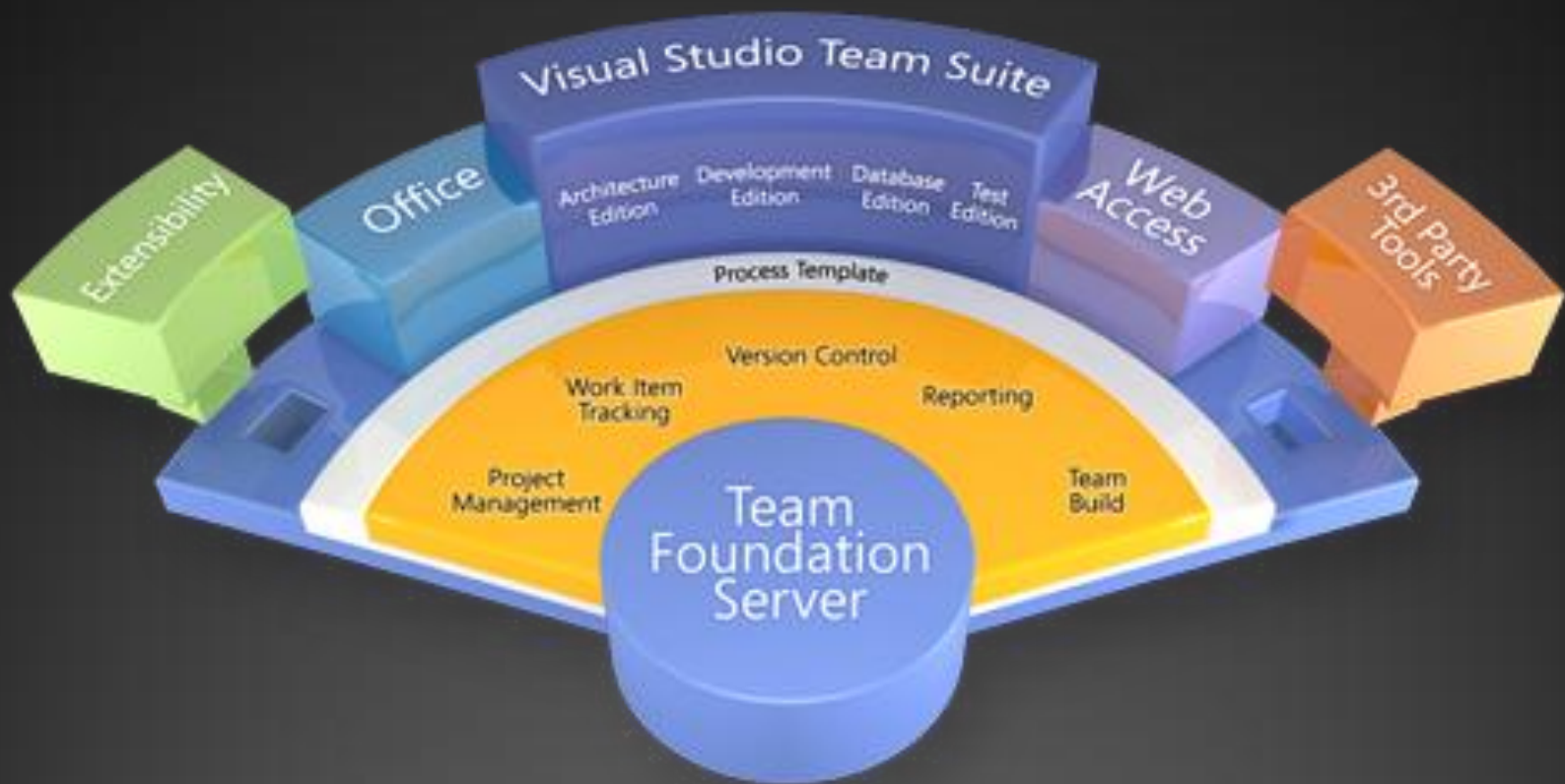
Softwareentwicklung mit
Team Foundation Server 2008

Manuel Naujoks (IB6)

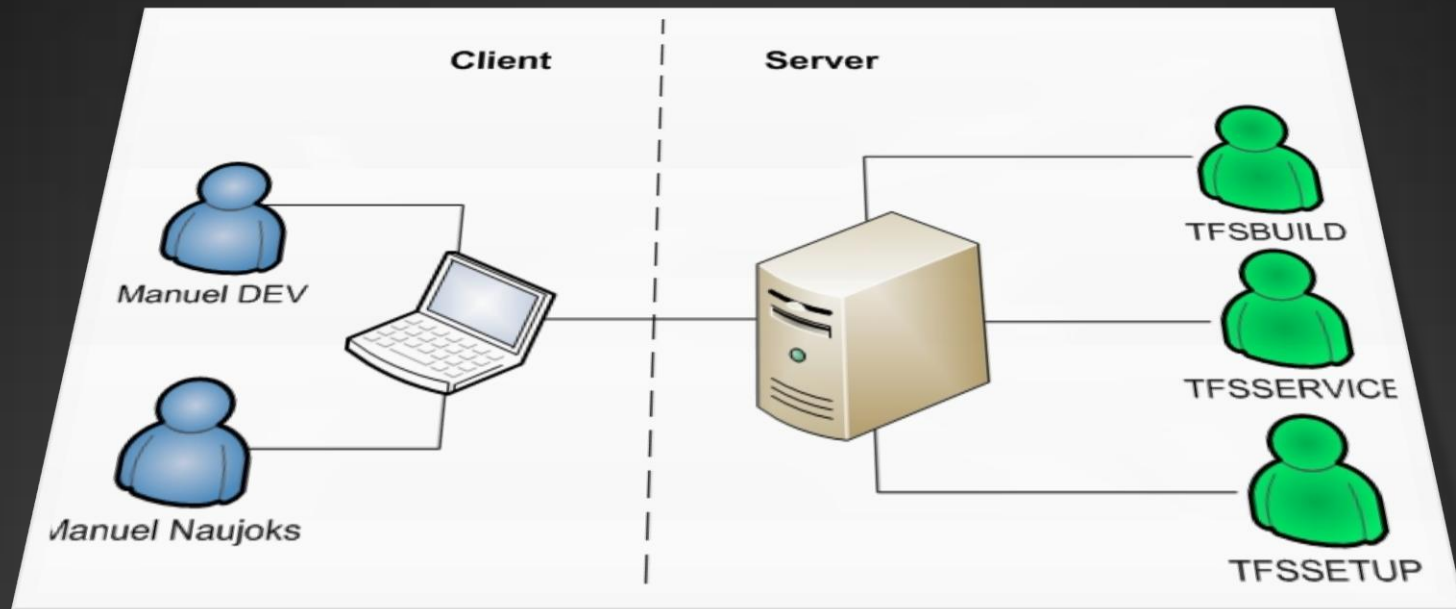
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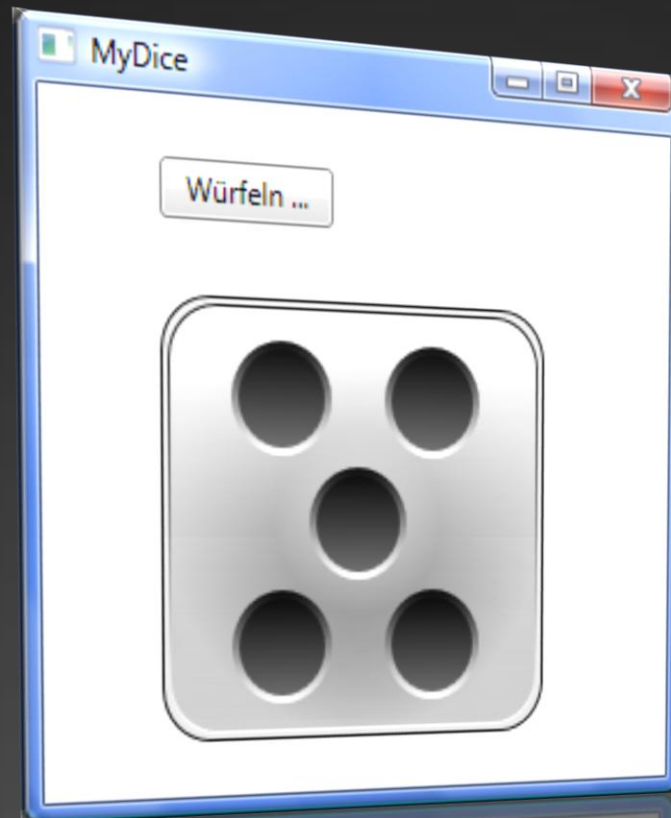
Visual Studio Team System



Projektumgebung



Szenario



Szenario/Team Projekt

- Personen
- Prozessmodell
- Areas
- Iterations
- Work Items
- Source Control
- Buildprozesse
- Berichtswesen

Szenario/Team Projekt

The screenshot displays the Microsoft Visual Studio interface. The main window, titled 'All Work Items [Results]', shows a table of 15 work items. The selected item is ID 44, 'Set up: Set Permissions'. Below the table, the details for this task are visible, including its title, discipline, area (AgileTest), and iteration (AgileTest\Iteration 0).

Team Explorer on the right shows a project structure for 'win-ild3mymfdr' with folders for 'My Favorites', 'AgileTest', 'Work Item Templates', 'Work Items', 'Team Queries', 'Documents', 'Reports', 'Builds', 'Team Members', 'Alerts', and 'Source Control'. Under 'Team Queries', various query types like 'Active Bugs', 'All Issues', and 'All Scenarios' are listed.

ID	Work Item Type	Rank	State	Assigned ...	Title
44	Task		Active	TFSSETUP	Set up: Set Permissions
45	Task		Active	TFSSETUP	Set up: Migration of Source Code
46	Task		Active	TFSSETUP	Set up: Migration of Work Items
47	Task		Active	TFSSETUP	Set up: Set Check-in Policies
48	Task		Active	TFSSETUP	Set up: Configure Build
49	Task		Active	TFSSETUP	Set up: Send Mail to Users for Installation and Getting started
50	Task		Active	TFSSETUP	Create Vision Statement
51	Task		Active	TFSSETUP	Set up: Create Project Description on Team Project Portal
52	Task		Active	TFSSETUP	Create Personas
53	Task		Active	TFSSETUP	Define Iteration Length
54	Task		Active	TFSSETUP	Create Test Approach Worksheet including Test Thresholds
55	Task		Active	TFSSETUP	Brainstorm and Prioritize Scenarios List
56	Task		Active	TFSSETUP	Brainstorm and Prioritize Quality of Service Requirements List
57	Task		Active	TFSSETUP	Set up: Create Project Structure
58	Task		Active	TFSSETUP	Create Iteration Plan

Szenario/Team Projekt

The image displays two overlapping windows from Microsoft Office. The background window is Microsoft Excel, showing a spreadsheet with a list of tasks in columns A and B. The foreground window is Microsoft Project, showing a Gantt chart for a project named 'Manuel DEV'.

Excel Spreadsheet Data:

Row	Column A	Column B
7	48 Task	
8	49 Task	
9	50 Task	
10	51 Task	
11	52 Task	
12	53 Task	
13	54 Task	
14	55 Task	
15	56 Task	
16	57 Task	
17	58 Task	
18	60 Quality of Service Requirement	1
19	59 Scenario	1
20	61 Task	1
21	62 Task	1
22	63 Task	1
23	64 Task	1
24	65 Task	1

Microsoft Project Gantt Chart Data:

Task ID	Title	Dauer	Anfang	Ende	Vorgänger	Work Item Type
7	Create Vision Stater	0 Tage?	Don 1/15/09	Don 1/15/09		Task
8	Set up: Create Proje	0 Tage?	Don 1/15/09	Don 1/15/09		Task
9	Create Personas	0 Tage?	Don 1/15/09	Don 1/15/09		Task
10	Define Iteration Leng	0 Tage?	Don 1/15/09	Don 1/15/09		Task
11	Create Test Approa	0 Tage?	Don 1/15/09	Don 1/15/09		Task
12	Brainstorm and Prior	0 Tage?	Don 1/15/09	Don 1/15/09		Task
13	Brainstorm and Prior	0 Tage?	Don 1/15/09	Don 1/15/09		Task
14	Set up: Create Proje	0 Tage?	Don 1/15/09	Don 1/15/09		Task
15	Create Iteration Plan	0 Tage?	Don 1/15/09	Don 1/15/09	14 Task	Task
16	VS Struktur anlegen	0 Tage?	Don 1/15/09	Don 1/15/09	15 Task	Task
17	Tests schreiben	1 Tag	Don 1/15/09	Don 1/15/09	16 Task	Task
18	würfeln	3 Tage?	Fre 1/16/09	Die 1/20/09	17 Scenario	Scenario
19	Würfelvorgang ir	1 Tag	Fre 1/16/09	Fre 1/16/09		Task
20	GUI designen	2 Tage	Mon 1/19/09	Die 1/20/09	19 Task	Task
21	3D Würfel	2 Tage	Fre 1/16/09	Mon 1/19/09		Task
22	Jeder dritte Wurf	1 Tag?	Die 1/20/09	Die 1/20/09	21 Quality of Ser	Quality of Ser

The Gantt chart shows a sequence of tasks starting on January 15, 2009. A red bar highlights the 'würfeln' task, which is a scenario task. The chart also shows dependencies between tasks, with arrows indicating the flow from task 16 to 17, 17 to 18, 18 to 19, and 19 to 20. The 'Manuel DEV' resource is assigned to tasks 17, 18, 19, and 20.

Szenario/Team Projekt

Project: AgileTest Server: win-1Ind3mymfdr Query: [None]

ID	Rank	Work Item Type	State	Title	Area Path	Iteration Path	Description
59	1	Scenario	Active	Würfeln	\	\Version1	Der Benutzer würfelt eine Zahl zwischen 1 und 6.
60	1	QoS Requirement	Active	Jeder dritte Wurf 6	\BusinessLogik	\Version1	Wenn der Benutzer dreimal würfelt muss der Würfel mindestens einmal 6 anzeigen.
61	1	Task	Active	GUI designen	\UserInterface	\Version1	Oberfläche mit Würfelanzeige und Button designen.
62	1	Task	Active	Würfelvorgang implementieren	\BusinessLogik	\Version1	Ergebnisbestimmung des Würfelvorgangs.
63	1	Task	Active	3D Würfel	\UserInterface	\Version1	Der Würfel soll sich drehen in 3D.
64	1	Task	Active	Tests schreiben	\Testing	\Version1	Testfälle der Programm Logik schreiben.
65	1	Task	Active	VS Struktur anlegen	\	\	Visual Studio Solution und Struktur als Basis für die Entwicklung anlegen.

Szenario/Source Control

- Visual Studio Integration
- Check-In Policies
- Shelving
- Branching
- Work Item Bezug
- Berichtswesen

Szenario/Source Control

The screenshot displays the Microsoft Visual Studio interface for a project named 'MyDice'. The 'Test List Editor' window is open, showing a list of tests with columns for 'Test Name', 'Project', and 'State'. The 'Pending Changes' window is also open, showing a list of work items with columns for 'Work Item ID', 'Title', 'State', and 'Check-in Action'. The 'Solution Explorer' on the right shows the project structure, including 'MyDiceTestProject' and its sub-items.

Test List Editor

Test Name	Project	State
<input type="checkbox"/> GetRandomResultTest	MyDiceTestProject	
<input type="checkbox"/> DiceConstructorTest	MyDiceTestProject	
<input type="checkbox"/> RollTest	MyDiceTestProject	

Pending Changes - Work Items (AgileTest/Team Queries/My Work Items)

Work Item ID	Title	State	Check-in Action
60	Jeder dritte Wurf 6	Active	
59	würfeln	Active	
61	GUI designen	Active	
62	Würfelvorgang implementieren	Active	
63	3D Würfel	Active	
<input checked="" type="checkbox"/> 64	Tests schreiben	Active	Resolve

Solution Explorer - MyDiceTestProject

- Solution 'MyDice' (2 projects)
- Solution Items
 - LocalTestRun.testrunconfig
 - MyDice.vsmmdi
- MyDice**
 - Properties
 - References
 - Logic
 - Dice.cs
 - RollResult.cs
 - App.xaml
 - Window1.xaml
 - Window1.xaml.cs
- MyDiceTestProject
 - Properties
 - References
 - Test References
 - MyDice.accessor
 - AuthoringTests.txt
 - DiceTest.cs

Szenario/Buildsystem

- Continuous Integration
- Build Agents
- Unit Testing
- Codeanalyse
- Buildreport
- Work Item Bezug
- Berichtswesen

Szenario/Buildsystem

The image shows two overlapping Windows dialog boxes. The background dialog is the 'MSBuild Project File Creation Wizard' at the 'Options' step. The foreground dialog is the 'Build Definition - MyDiceCI' dialog, showing the 'Trigger' tab.

MSBuild Project File Creation Wizard - Select build options

The build process will include the following build options.

Which build options would you like to include in the build?

- Run test (e.g. run BVTs, etc.)
Test metadata file:
Test list to run:
 MyDiceTest
- Automatically detect and run tests in the following assemblies
Semi-colon delimited list of file specifications:
- Perform code analysis according to project settings

< Previous Next > Finish Cancel

Build Definition - MyDiceCI

Team Foundation Build supports continuous integration by letting you trigger a build after a check-in.

- Check-ins do not trigger a new build
- Build each check-in (more builds)
- Accumulate check-ins until the prior build finishes (fewer builds)
 Build no more often than every minutes.
- Build every week on the following days:
 Monday Tuesday Wednesday Thursday
 Friday Saturday Sunday

Queue the build on the default build agent at:
 W. Europe Standard Time (GMT +01:00)

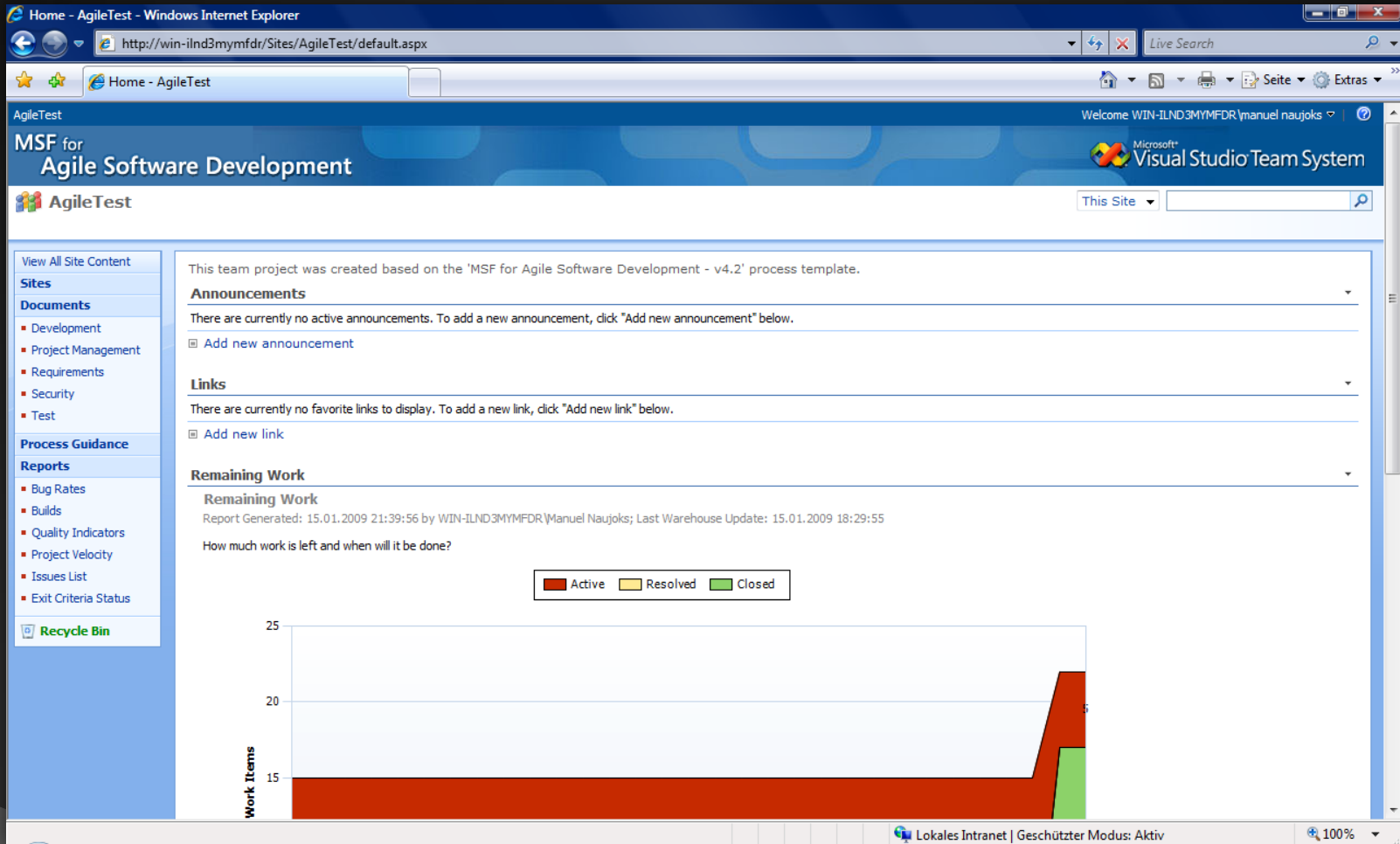
- Build even if nothing has changed since the previous build

OK Cancel

Szenario/Team Portal

- SharePoint Portal
- Diskussionsforen / FAQ
- „Schwarzes Brett“
- Kalender
- Berichtswesen
- Process Guidance
- Dokumentenablage

Szenario/Team Portal



Prozessvorlagen

- Vorinstalliert:
 - MSF for Agile Software Development – v4.2
 - MSF for CMMI Process Improvement – v4.2
- Installierbar:
 - Scrum (verschiedene Varianten)
 - RUP
 - ...

MSF (Microsoft Solutions Framework)
CMMI (Capability Maturity Model Integration)
RUP (Rational Unified Process)

Prozessvorlagen/MSF for Agile

- Kleine und kurze Projekte
- Work Item Typen
 - Risk
 - Quality of Service Requirement
 - Scenario
 - Bug
 - Task
- Dokumente für kundennahe Planung

Prozessvorlagen/MSF for CMMI

- Große und lange Projekte
- Work Item Typen
 - Requirement
 - Bug
 - Risk
 - Task
 - Change Request
 - Issue
 - Review
- Umfangreiche Dokumente für Formalität

Anpassbarkeit

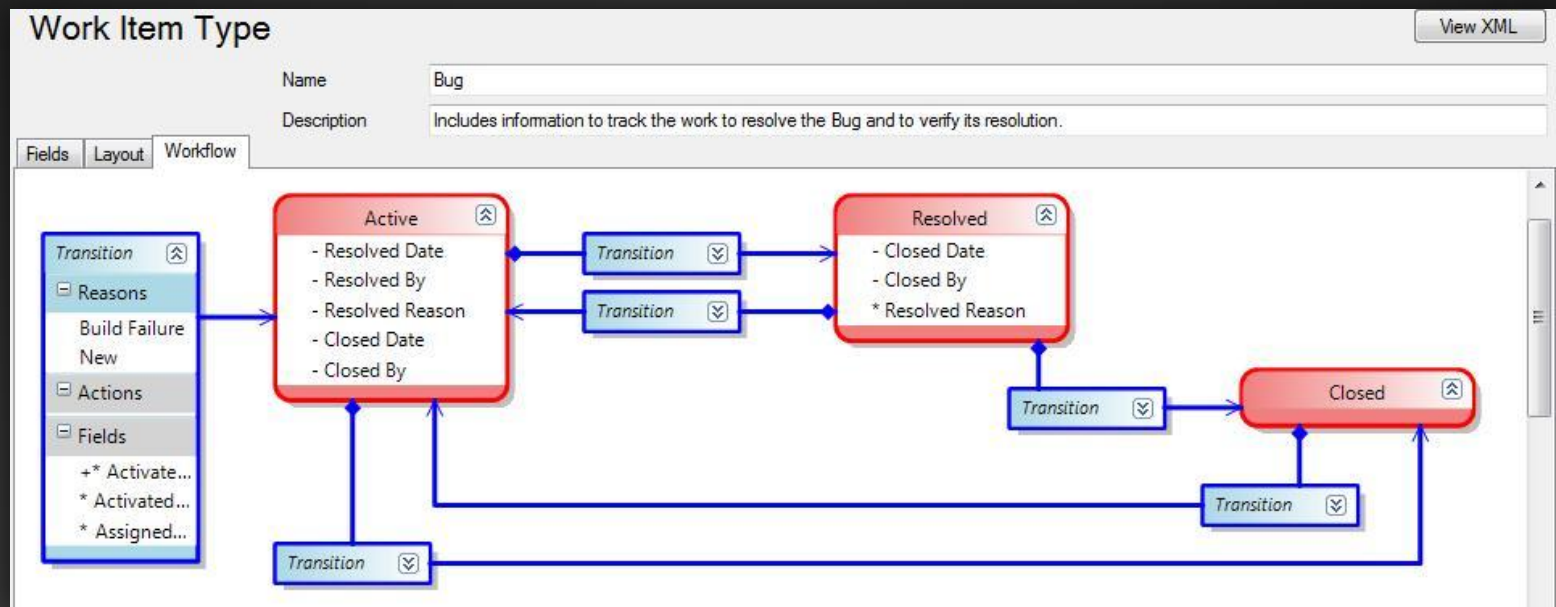
- Process Template Editor

The screenshot shows the Microsoft Visual Studio interface for editing a process template. The main window displays the 'MSF for Agile Software Development - v4.2' template. On the left, a tree view shows the template's structure, including 'Methodology', 'Work Item Tracking', 'Work Item Type Definitions', 'Areas & Iterations', 'Groups & Permissions', 'Source Control', 'Portal', and 'Reports'. The 'Methodology Detail' section shows the template's name and a detailed description. Below this, the 'Plugins' tab is active, displaying a table of wizard pages and their status.

Name	Wizard Page
Microsoft.ProjectCreationWizard.Classification	<input type="checkbox"/>
Microsoft.ProjectCreationWizard.Reporting	<input type="checkbox"/>
Microsoft.ProjectCreationWizard.Portal	<input checked="" type="checkbox"/>
Microsoft.ProjectCreationWizard.Groups	<input type="checkbox"/>
Microsoft.ProjectCreationWizard.WorkItemTracking	<input type="checkbox"/>
Microsoft.ProjectCreationWizard.VersionControl	<input checked="" type="checkbox"/>

Anpassbarkeit

- Work Item Template Editor



Zusammenfassung

- Unterstützung für Teams mit Visual Studio
- Unterstützung von Prozessmodellen
- Anpassbarkeit

Ersetzt keine Meetings und Planungen!

TFS ist eine Plattform für Entwicklungen!

Vielen Dank für die
Aufmerksamkeit

Mehr Informationen

- Visual Studio Team System 2008

<http://msdn.microsoft.com/de-de/vsts2008/products/bb964615.aspx>

- patterns & practices Team Development with TFS

<http://www.codeplex.com/TFSGuide>

- Team Foundation Server Power Tools

<http://msdn.microsoft.com/en-us/teamsystem/bb980963.aspx>

- Teamprise Plug-in for Eclipse

<http://www.teamprise.com/products/plugin/>

- Team Foundation Server SDK

<http://msdn.microsoft.com/en-us/library/bb130146.aspx>