

1.– 4. September 2014
in Nürnberg



Herbstcampus

Wissenstransfer
par excellence

8 Jahre Team Foundation Server

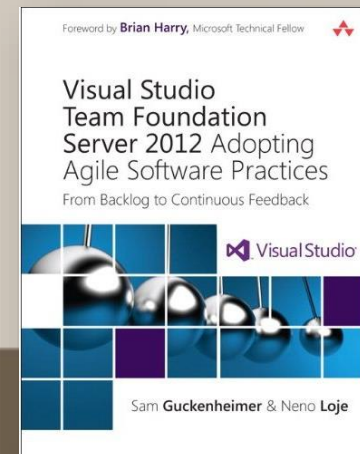
Beginn: 11:20

Neno Loje

Team Foundation Server (TFS) Application Lifecycle Management (ALM)

Moderne Softwareentwicklungsmethoden (Scrum)

Basierend auf:



TFS – Historie

- TFS 2005 – Transparent Foundation
 - SP1
- TFS 2008 – Transparent Foundation
 - SP1
- TFS 2010 – Testers, Architects
 - SP1
- TFS 2012 – Stakeholders, Operations
 - Update 1
 - Update 2
 - Update 3
 - Update 4
- TFS 2013

Continuous Value Delivery

Define

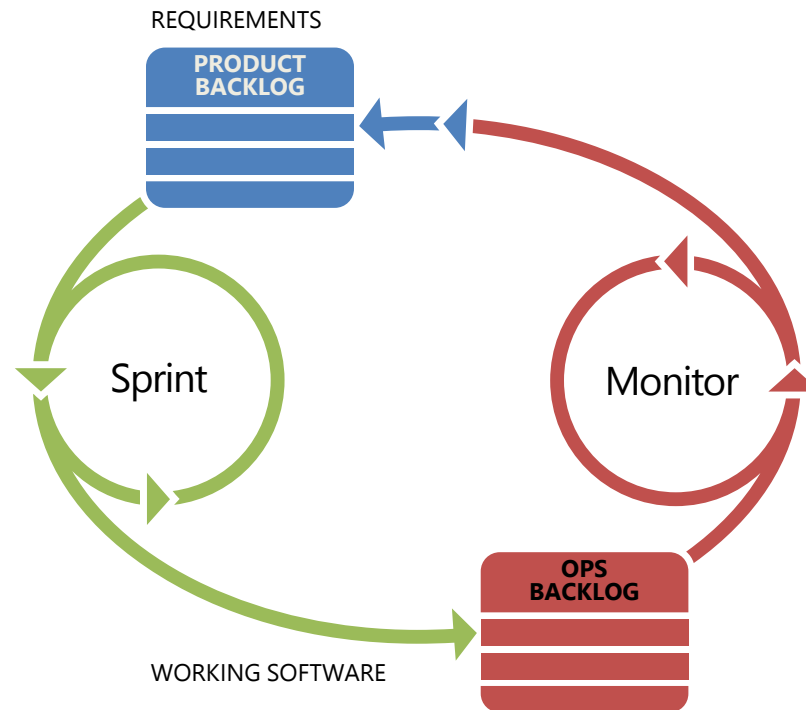
Ideation

Develop

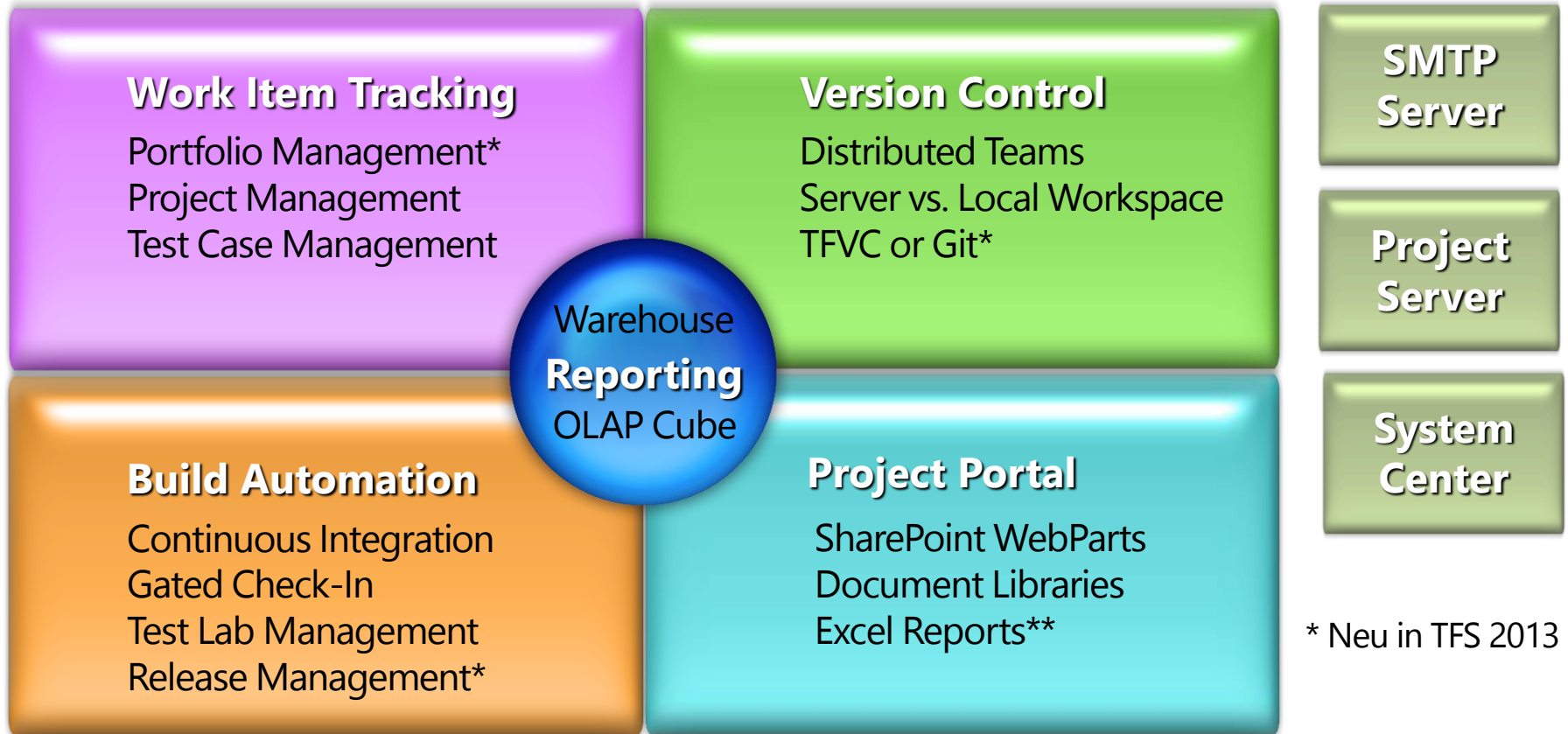
Idea to working software

Operate

Deployment to feedback

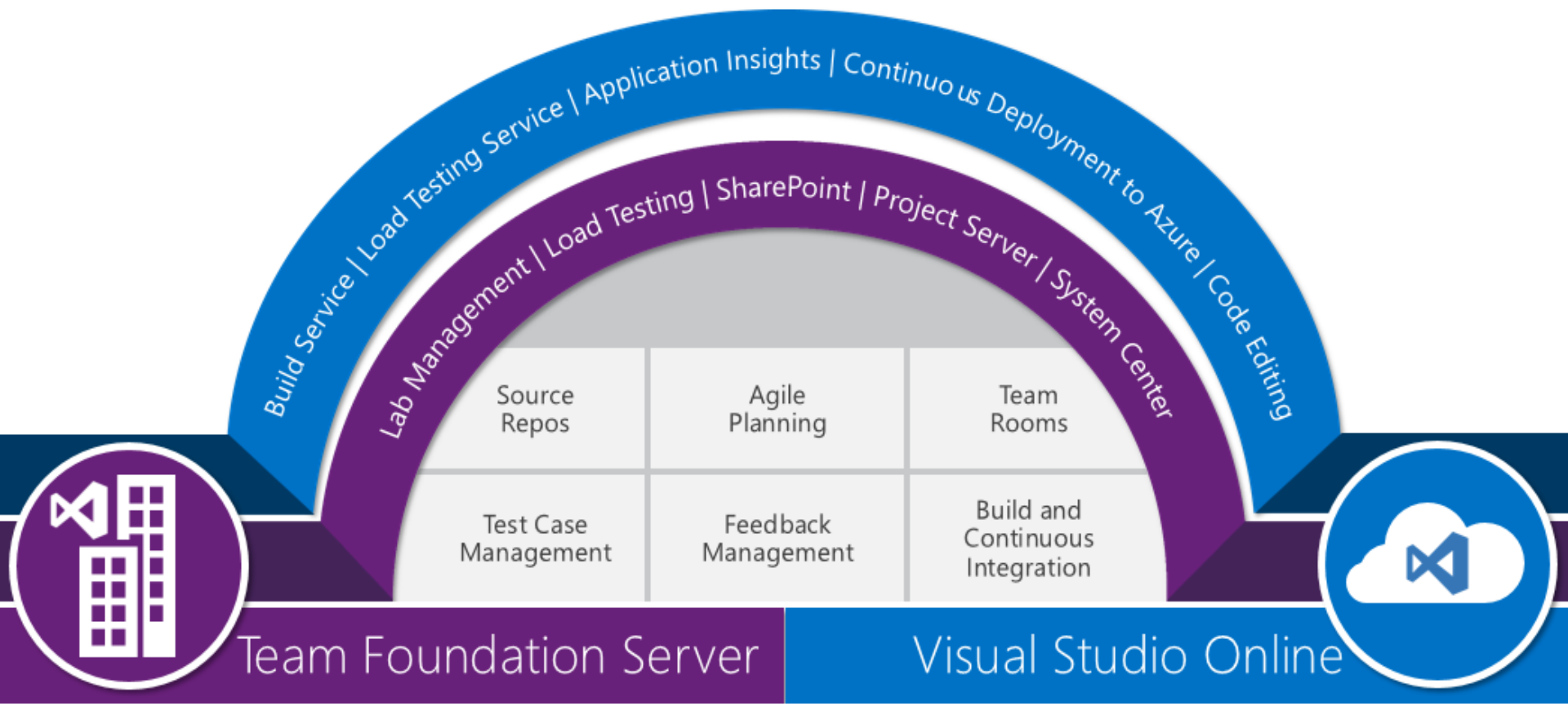


Team Foundation Server (TFS)







* Neu in TFS 2013

ALM your way



Welcher Team Foundation Server ist für Sie?

<p>TFS</p> 	<p>TFS on Desktop</p> 	<p>TFS Express</p> 	<p>Visual Studio Online (VSO)</p> 
<p>In MSDN-Abo inklusive</p>	<p>Ohne Windows Server</p>	<p>Kostenfrei bis 5 User</p>	<p>Cloud-Lösung</p>

Compare TFS Versions

	Express	Server	VSO
Work Items, Source Control, & Build			
Agile Product/Project Management			
Test Case Management			
Heterogeneous Development			
Installation and Setup			
Collaborate with anyone, from anywhere			
Data stays inside your network			
SharePoint Integration			
Data Warehouse & Reporting			

Slide taken from Microsoft Corp.

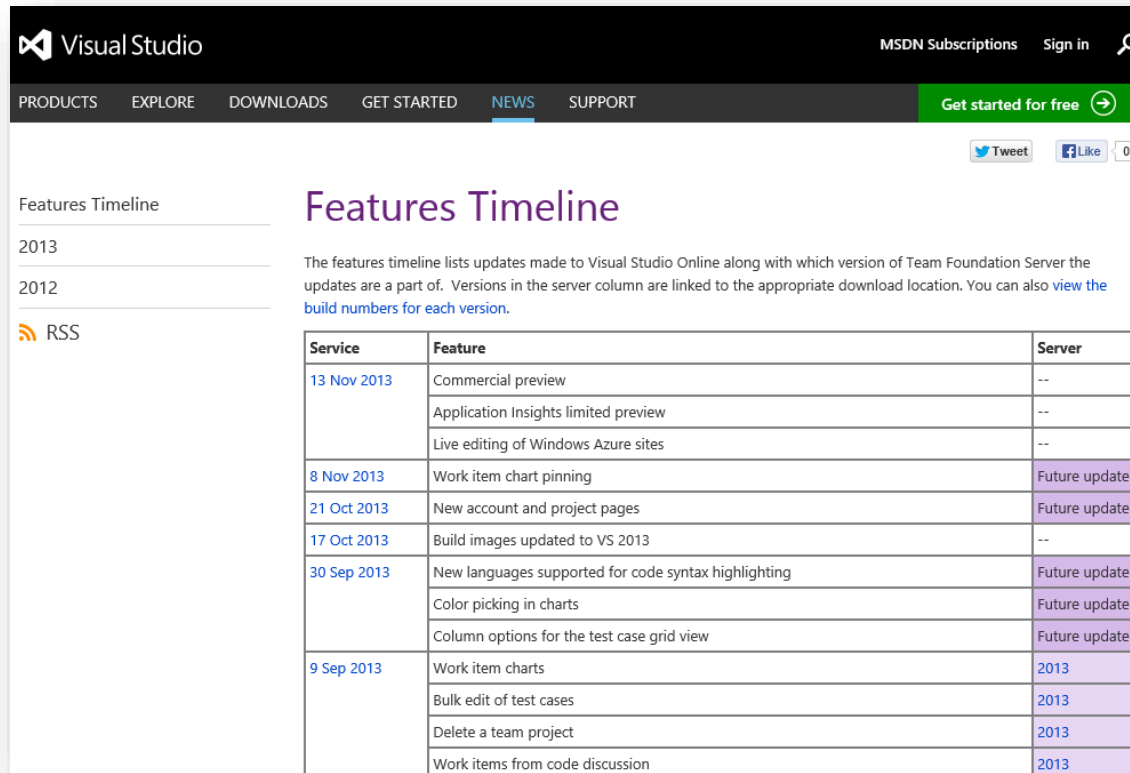
Stand: September 2014

TFS Shipping Cadence

- Cadences
 - 12-18 month vision
 - 6 month planning
 - 3 week sprints
 - Patch Monday
 - Daily hotfixes
- Conclusion
 - Visual Studio Online updates every 3 weeks
 - Visual Studio Client updates quarterly
 - Team Foundation Server updates more frequent than every 2 years

Source: <http://blogs.msdn.com/b/bharry/archive/2012/08/28/tfs-shipping-cadence.aspx>

Visual Studio Online – Features Timeline



Visual Studio

MSDN Subscriptions Sign in

PRODUCTS EXPLORE DOWNLOADS GET STARTED **NEWS** SUPPORT

Get started for free

Tweet Like 0

Features Timeline

2013

2012

RSS

Features Timeline

The features timeline lists updates made to Visual Studio Online along with which version of Team Foundation Server the updates are a part of. Versions in the server column are linked to the appropriate download location. You can also [view the build numbers for each version](#).

Service	Feature	Server
13 Nov 2013	Commercial preview	--
	Application Insights limited preview	--
	Live editing of Windows Azure sites	--
8 Nov 2013	Work item chart pinning	Future update
21 Oct 2013	New account and project pages	Future update
17 Oct 2013	Build images updated to VS 2013	--
30 Sep 2013	New languages supported for code syntax highlighting	Future update
	Color picking in charts	Future update
	Column options for the test case grid view	Future update
9 Sep 2013	Work item charts	2013
	Bulk edit of test cases	2013
	Delete a team project	2013
	Work items from code discussion	2013

Link: <http://www.visualstudio.com/en-us/news/release-archive-vso>

TFS-Nutzung bei Microsoft

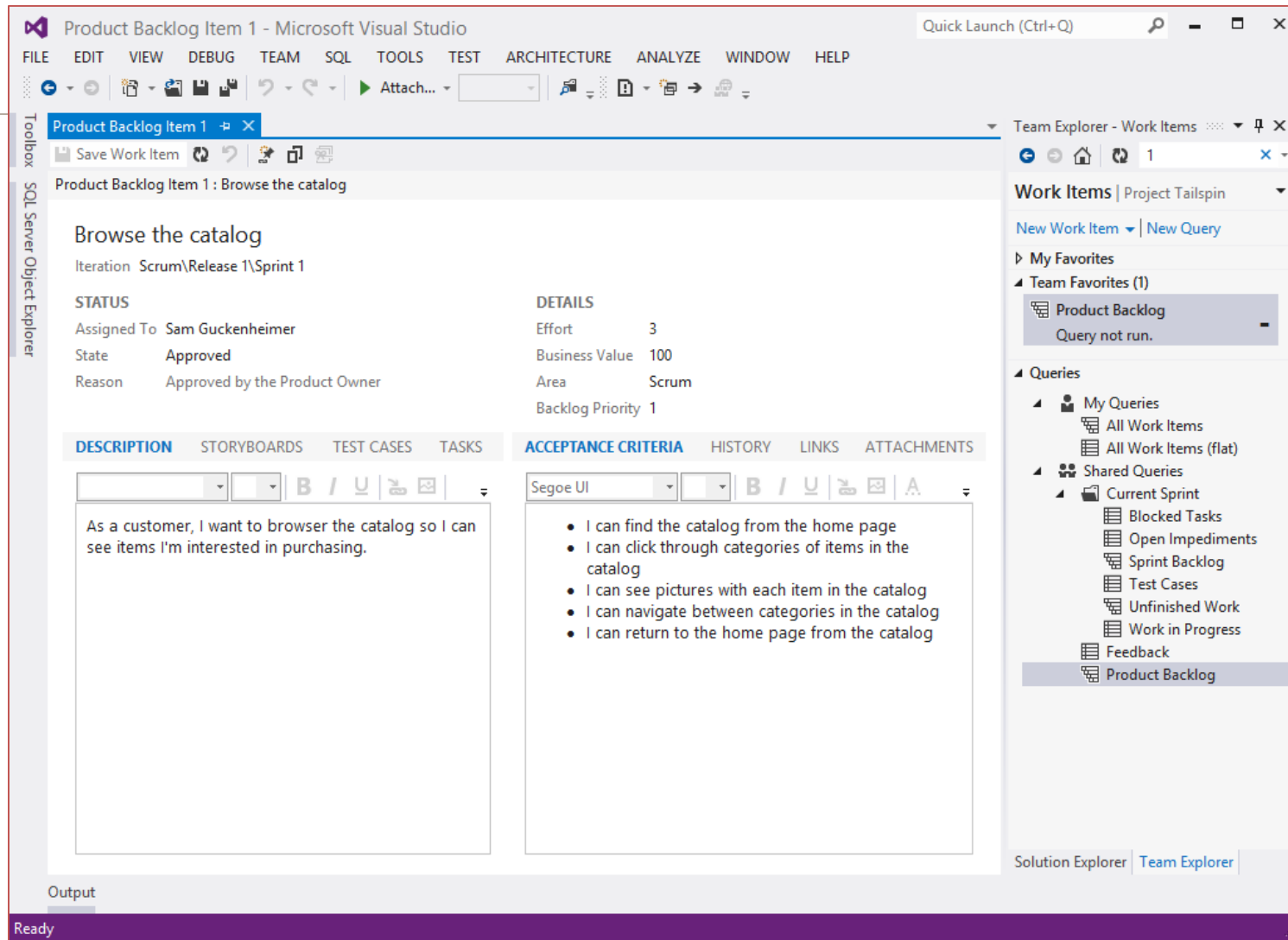
- 68 TFS-Instanzen

	Current	30 day growth
Unique users	62,553	7,256
TPCs	788	46
Projects	15,581	187
Work items	42,088,748	5,572,355
Source files	320,224,466	11,959,935
Builds/month	568,190	109,764
Test cases	9,483,760	1,172,495

Quelle: Daten vom April 2014, <http://blogs.msdn.com/b/bharry/archive/2014/07/07/tfs-adoption-at-microsoft-july-2014.aspx>

Product Backlog Item

- Title
- Assigned To
- State/Reason
- Area (= folder)
- Iteration (or sprint)
- Description
- Acceptance Criteria
- Effort
- Business Value
- Storyboards
- Attachments
- Links (to docs or other work items)



Product Backlog Item 1 - Microsoft Visual Studio

Quick Launch (Ctrl+Q)

FILE EDIT VIEW DEBUG TEAM SQL TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Product Backlog Item 1 - Browse the catalog

Save Work Item

Product Backlog Item 1: Browse the catalog

Iteration Scrum\Release 1\Sprint 1

STATUS

Assigned To Sam Guckenheimer

State Approved

Reason Approved by the Product Owner

DETAILS

Effort 3

Business Value 100

Area Scrum

Backlog Priority 1

DESCRIPTION STORYBOARDS TEST CASES TASKS

As a customer, I want to browse the catalog so I can see items I'm interested in purchasing.

ACCEPTANCE CRITERIA HISTORY LINKS ATTACHMENTS

Segoe UI

- I can find the catalog from the home page
- I can click through categories of items in the catalog
- I can see pictures with each item in the catalog
- I can navigate between categories in the catalog
- I can return to the home page from the catalog

Team Explorer - Work Items

Work Items | Project Tailspin

New Work Item | New Query

My Favorites

Team Favorites (1)

Product Backlog

Query not run.

Queries

My Queries

All Work Items

All Work Items (flat)

Shared Queries

Current Sprint

Blocked Tasks

Open Impediments

Sprint Backlog

Test Cases

Unfinished Work

Work in Progress

Feedback

Product Backlog

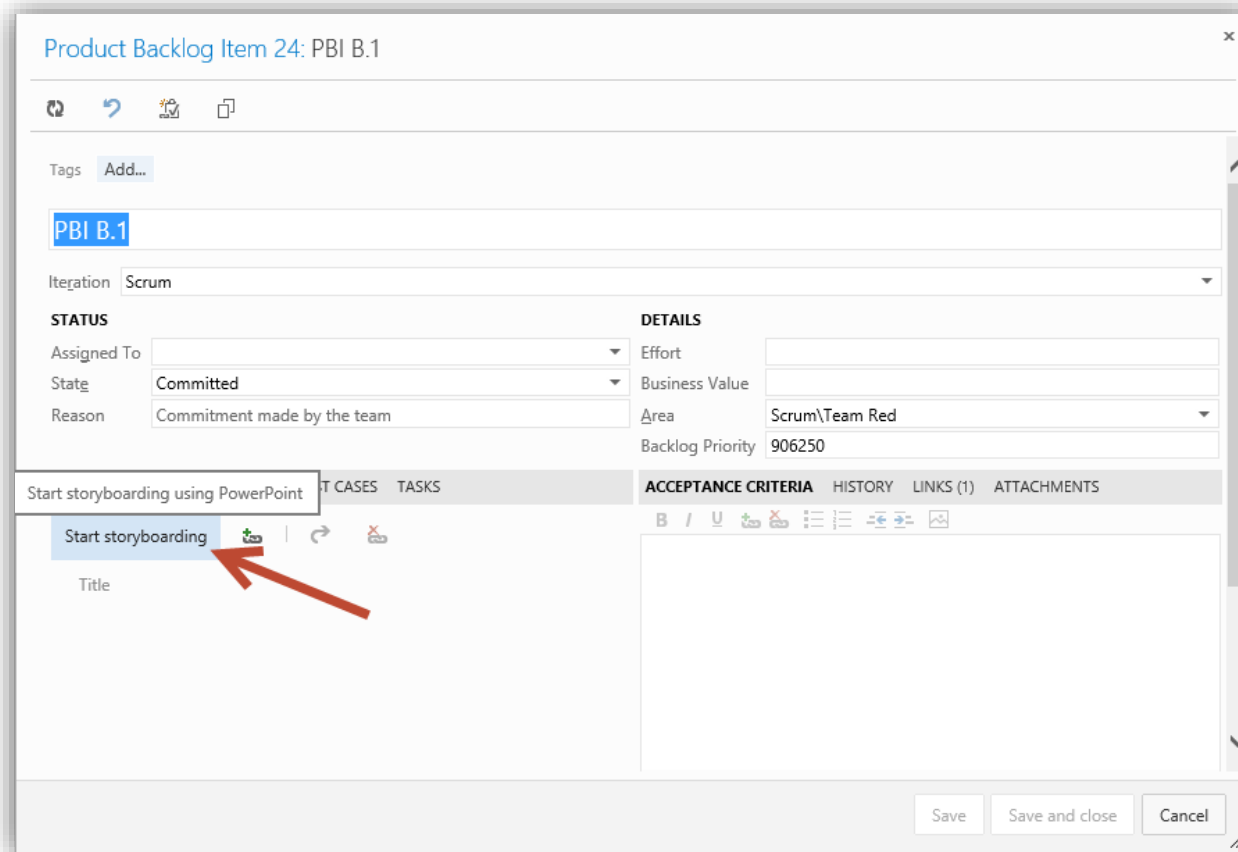
Solution Explorer | Team Explorer

Output

Ready

Create Storyboards to refine ideas

Test Pro
Premium
Ultimate



Product Backlog Item 24: PBI B.1

Tags [Add...](#)

PBI B.1

Iteration **Scrum**

STATUS

Assigned To

State **Committed**

Reason **Commitment made by the team**

DETAILS





Effort

Business Value

Area **Scrum\Team Red**










Backlog Priority **906250**

Start storyboarding using PowerPoint | CASES | TASKS

Start storyboarding |  |  |  | 

Title

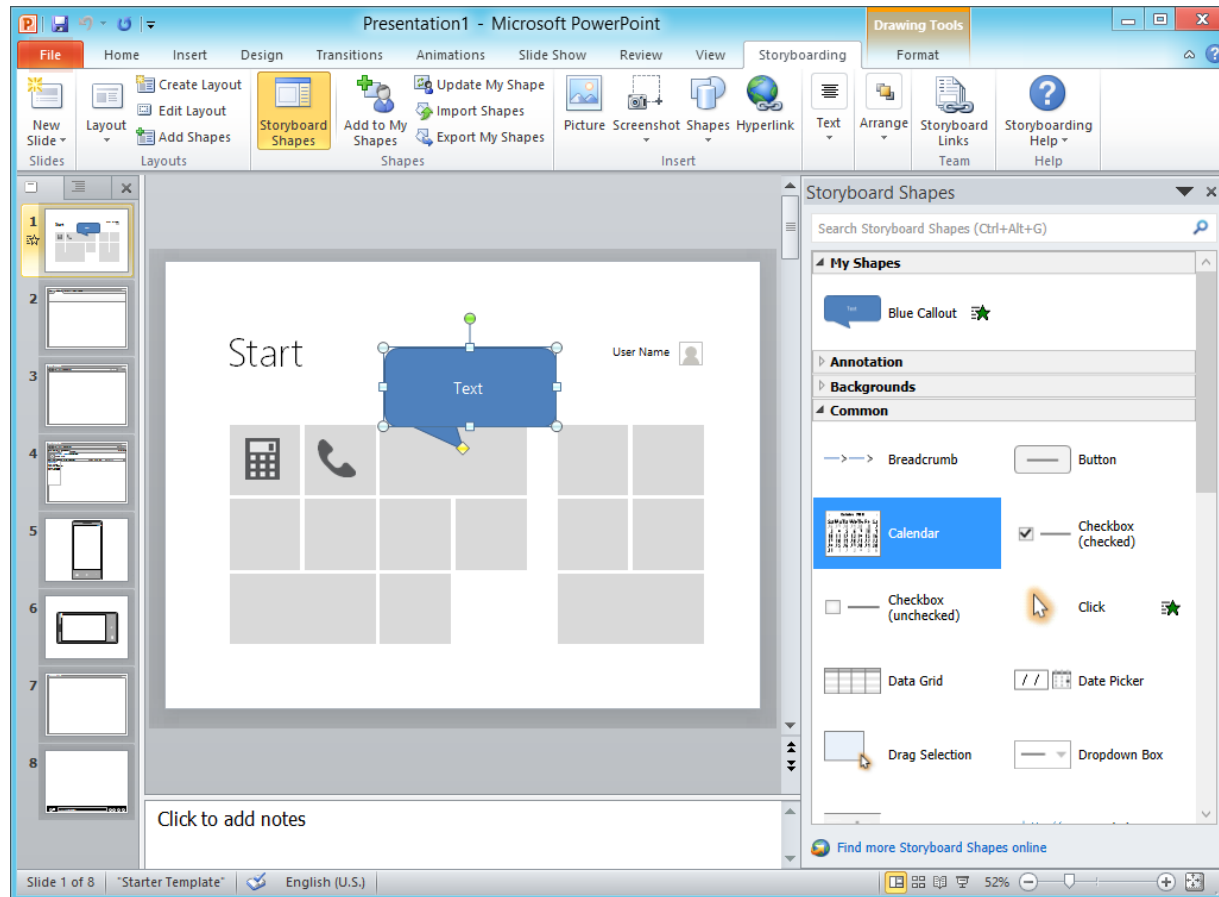
ACCEPTANCE CRITERIA | HISTORY | LINKS (1) | ATTACHMENTS

B / U         

Save Save and close Cancel

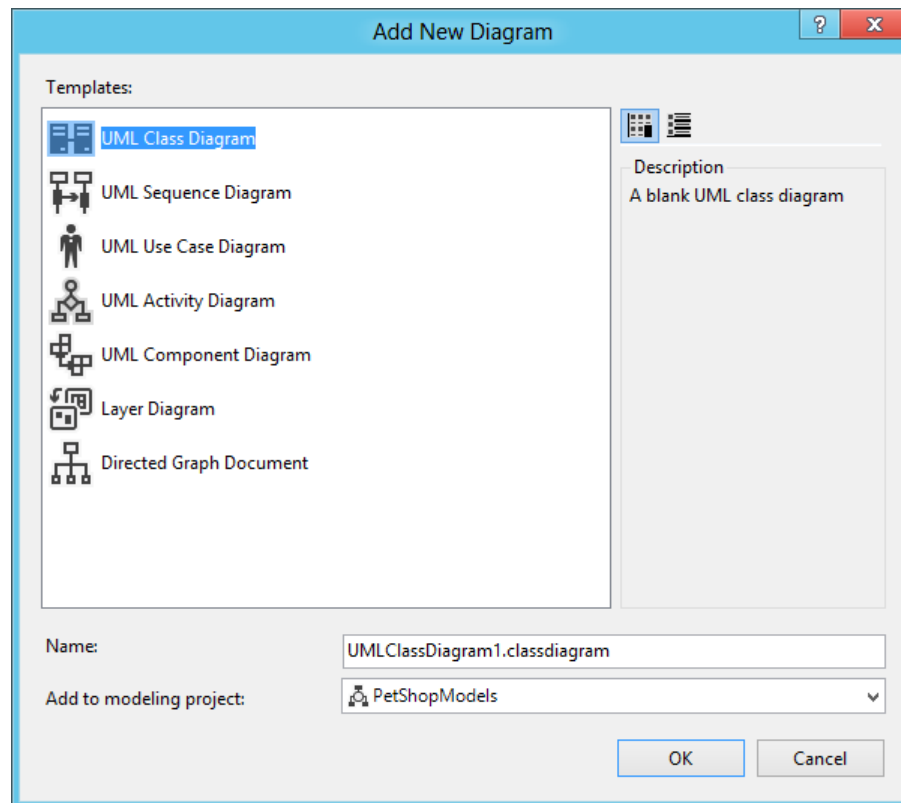
PowerPoint Storyboarding

Test Pro
Premium
Ultimate



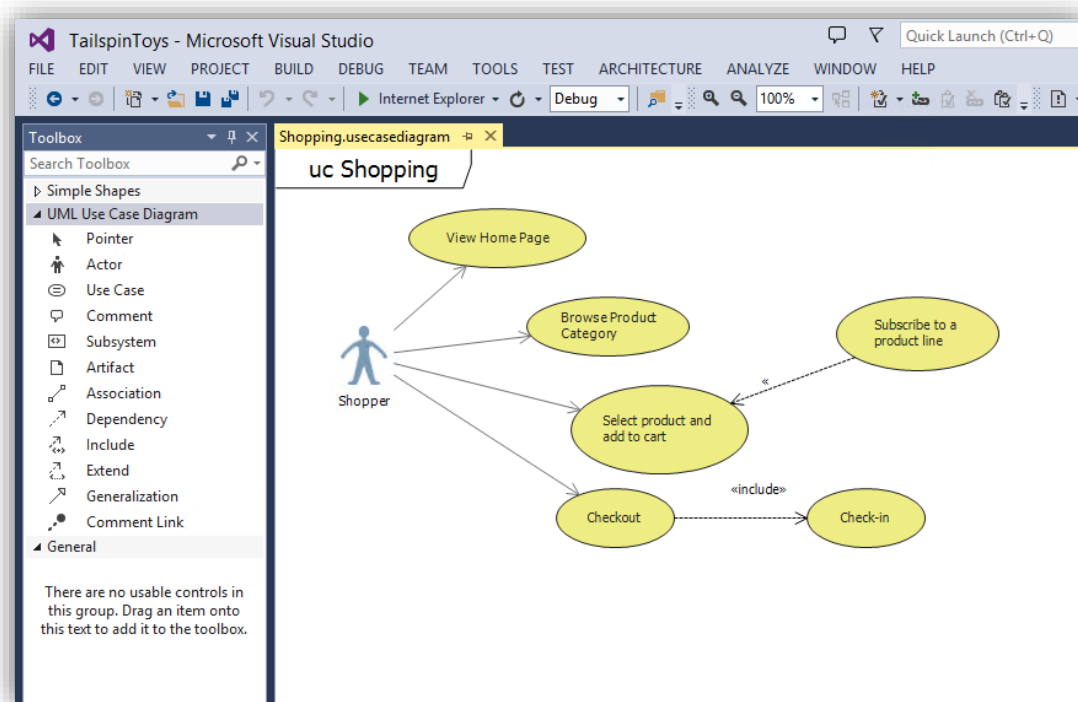
UML Diagrams

Ultimate



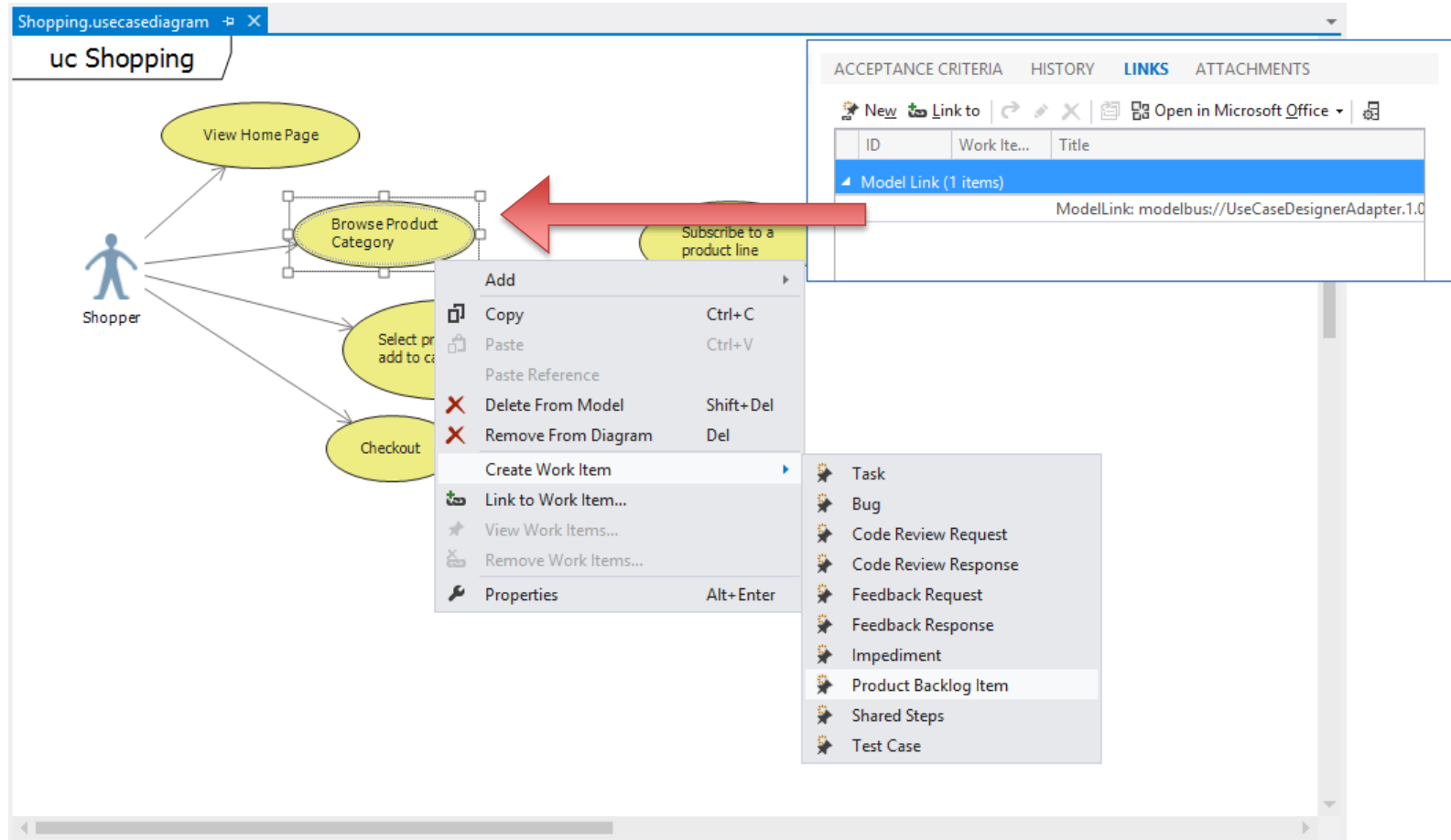
UML Use Case Diagram

Ultimate



Link UML Diagrams to Work Items

Ultimate

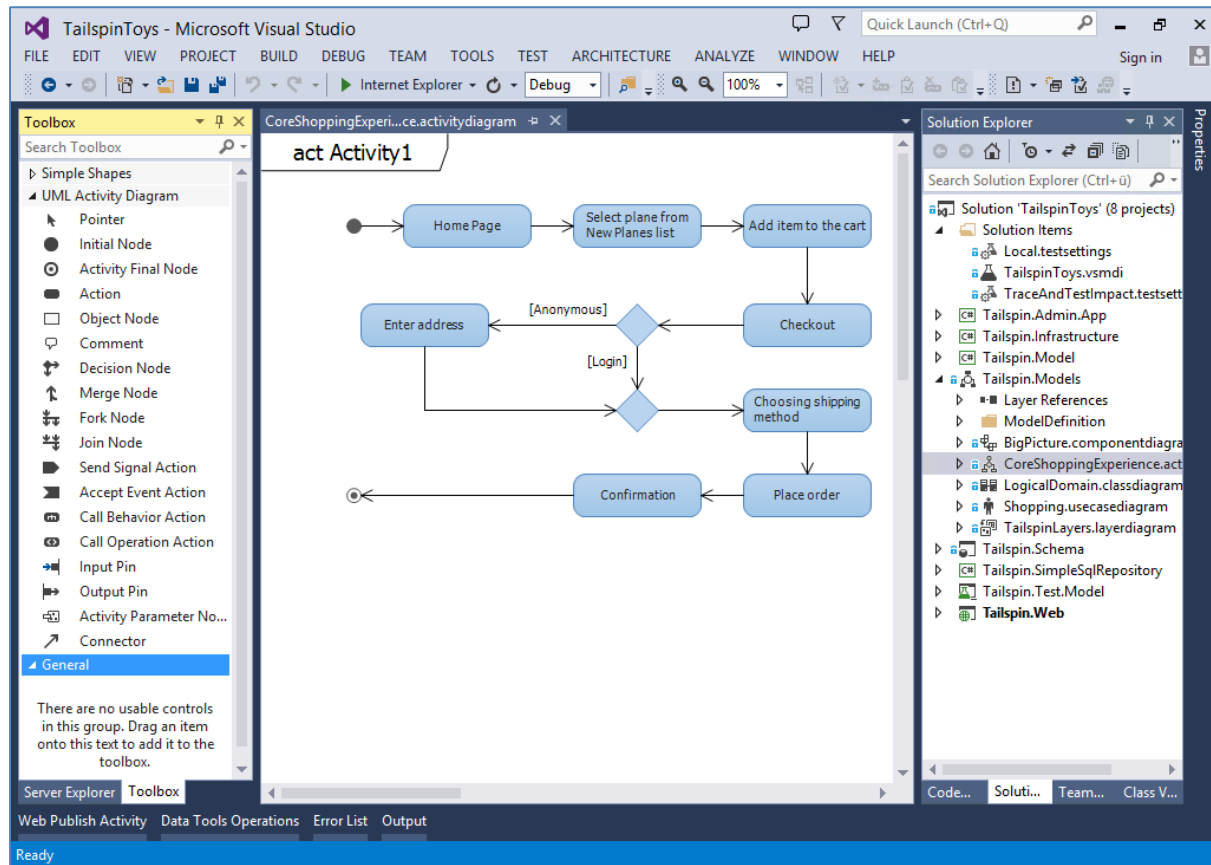


The screenshot shows a UML Use Case Diagram for a shopping application. The actor 'Shopper' is connected to several use cases: 'View Home Page', 'Browse Product Category', 'Select product and add to cart', and 'Checkout'. The 'Browse Product Category' use case is currently selected, and a context menu is open over it. The menu includes options such as 'Copy', 'Paste', 'Delete From Model', 'Remove From Diagram', 'Create Work Item', 'Link to Work Item...', 'View Work Items...', 'Remove Work Items...', and 'Properties'. The 'Link to Work Item...' option is highlighted, and a sub-menu is visible showing various work item types like 'Task', 'Bug', 'Code Review Request', etc. A red arrow points from the 'LINKS' panel on the right towards the 'Browse Product Category' use case. The 'LINKS' panel shows a table with one entry: 'Model Link (1 items)' with a title 'ModelLink: modelbus://UseCaseDesignerAdapter.1.0'.

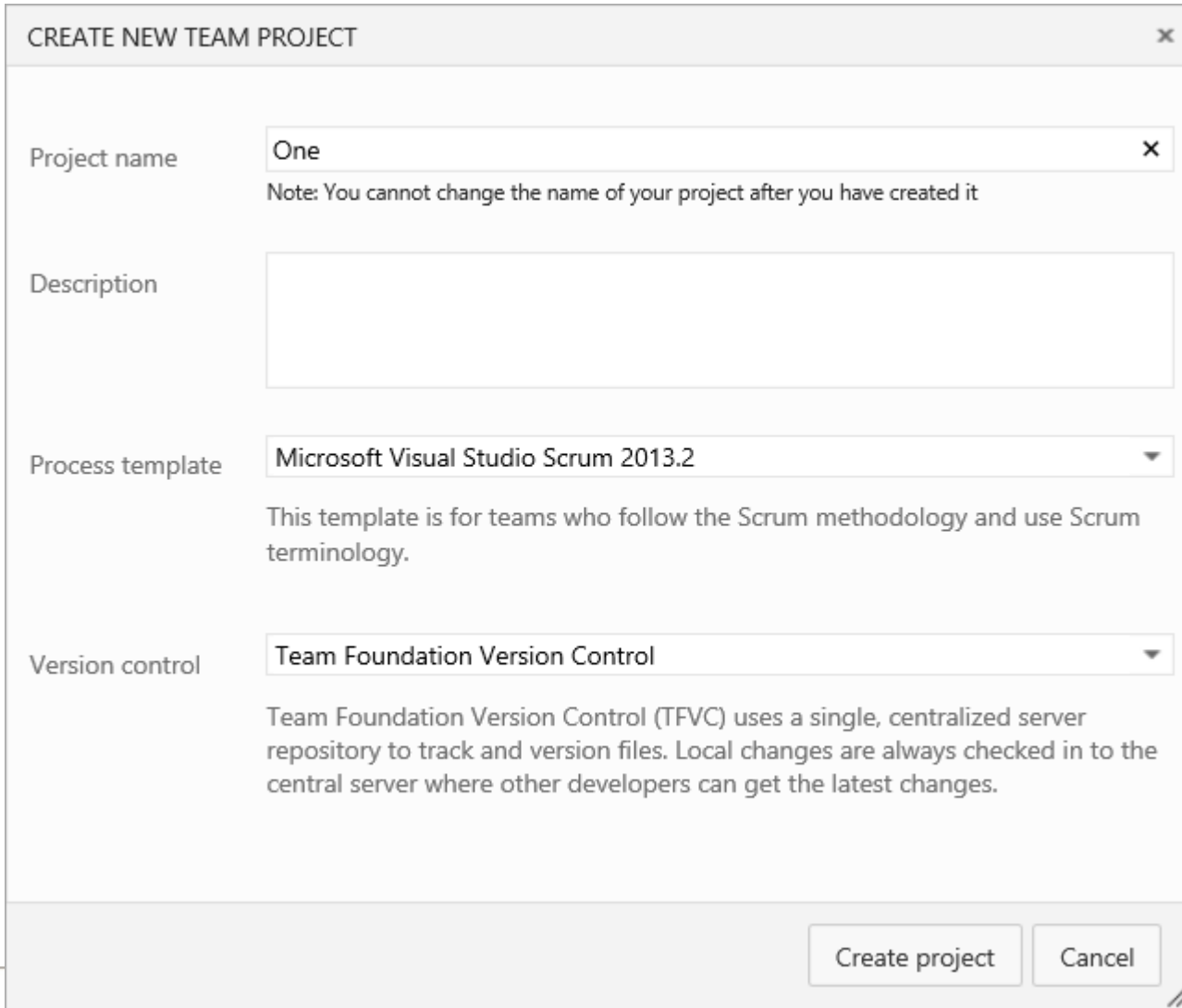
ID	Work Ite...	Title
Model Link (1 items)		
		ModelLink: modelbus://UseCaseDesignerAdapter.1.0

UML Activity Diagram

Ultimate



Bevor man loslegen kann



CREATE NEW TEAM PROJECT

Project name ×
Note: You cannot change the name of your project after you have created it

Description

Process template ▼
This template is for teams who follow the Scrum methodology and use Scrum terminology.

Version control ▼
Team Foundation Version Control (TFVC) uses a single, centralized server repository to track and version files. Local changes are always checked in to the central server where other developers can get the latest changes.

- 4 wichtige Entscheidungen:
 - Projektname
 - Prozessvorlage
 - TFVC vs. Git
 - Projektgröße

Product Backlog Management

Team Foundation Service / TechEd

HOME CODE **WORK** BUILD* TEST*

Backlogs Queries

Search work items

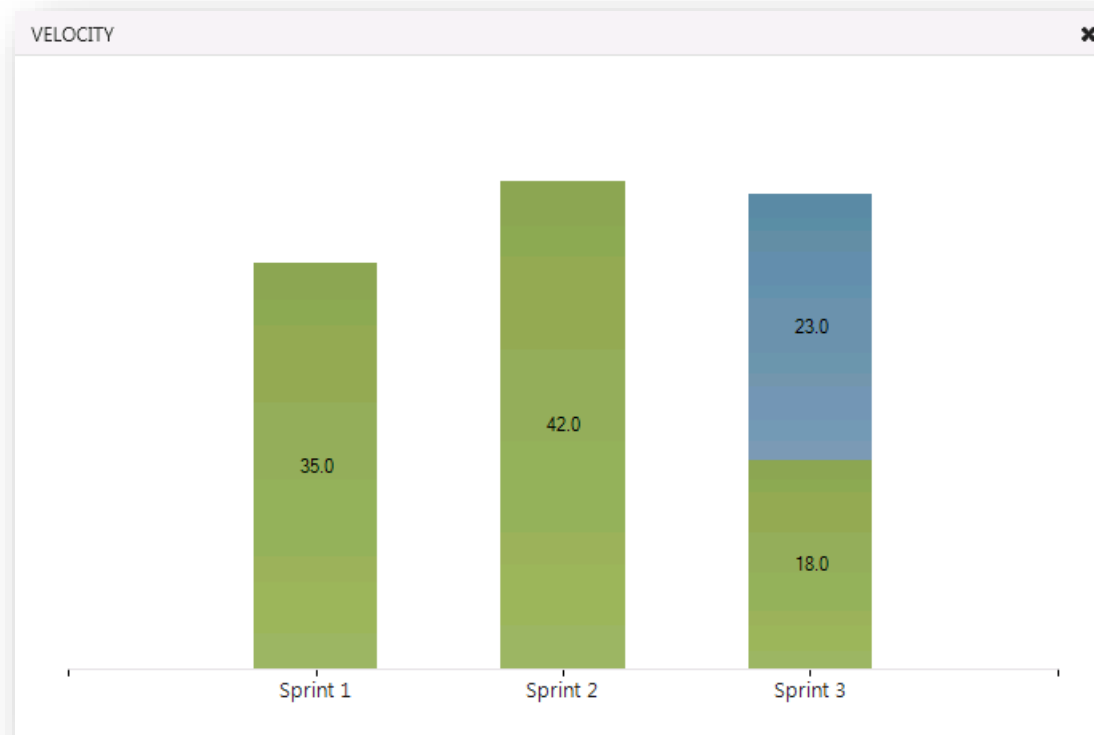
Forecast Off Mapping Off View Backlog items

Backlog Board

New [grid icon] [list icon] | Create query | Column options | [mail icon]

Order	Title	State	Effort	Iteration Path	Tags
1	Login with home page landing	Approved	3	TechEd\Release 1\Sprint 1	High Impact
2	Browse the catalog	Approved	3	TechEd	
3	View item details	Approved	5	TechEd	
4	Placing orders crashes Browser	New	4	TechEd	Blocked
5	Login cookies - silent login	Approved	3	TechEd	Analysis required, Blocked
6	Find orders	Approved	11	TechEd	
7	Logoff	Approved	5	TechEd	
8	RSS feeds	Approved	8	TechEd	
9	Customer search	New	2	TechEd	
10	View order details	New	4	TechEd	
11	Payment by credit card	Approved	7	TechEd	
12	Priority ordering - preferences	New		TechEd	
13	See related items	Approved		TechEd	
14	Add shipping details	New		TechEd	
15	Track shipments	New		TechEd	
16	Preferences remembered for future orders	New		TechEd	
17	Order history search	New		TechEd	

Velocity-Diagramm



Prognose-Funktion ("Forecast")

Team Foundation Service / TechEd Neno Loje

HOME CODE **WORK** BUILD* TEST* Search work items

Backlogs Queries

Features *
Backlog items

Current
Sprint 1

Future
Sprint 2
Sprint 3
Sprint 4
Sprint 5
Sprint 6

Backlog items

Backlog Board Forecast On Mapping Off View

New | Create query | Column options |

Forecasting based on velocity of 10

Forecast	Order	Title	State	Effort	Iteration Path	Tags
	1	Login with home page landing	Approved	3	TechEd\Release 1\Sprint 1	
Sprint 2	2	Browse the catalog	Approved	3	TechEd	
	3	View item details	Approved	5	TechEd	
	4	Placing orders crashes Browser	New	4	TechEd	
Sprint 3	5	Login cookies - silent login	Approved	3	TechEd	
Sprint 4	6	Find orders	Approved	11	TechEd	
Sprint 5	7	Logoff	Approved	5	TechEd	
	8	RSS feeds	Approved	8	TechEd	
	9	Customer search	New	2	TechEd	
Sprint 6	10	View order details	New	4	TechEd	
	11	Payment by credit card	Approved	7	TechEd	
	12	Priority ordering - preferences	New		TechEd	
	13	See related items	Approved		TechEd	
	14	Add shipping details	New		TechEd	
	15	Track shipments	New		TechEd	
	16	Preferences remembered for future orders	New		TechEd	
	17	Order history search	New		TechEd	

Begriffe

(basierend auf der Visual Studio Scrum-Vorlage)

Portfolio backlog

Feature

Backlog

Product Backlog Item

Task

Kundenwünsche

passen in ein Release

Backlog Items

einzeln implementier- und testbar
passen in einen Sprint

Tasks / Aufgaben

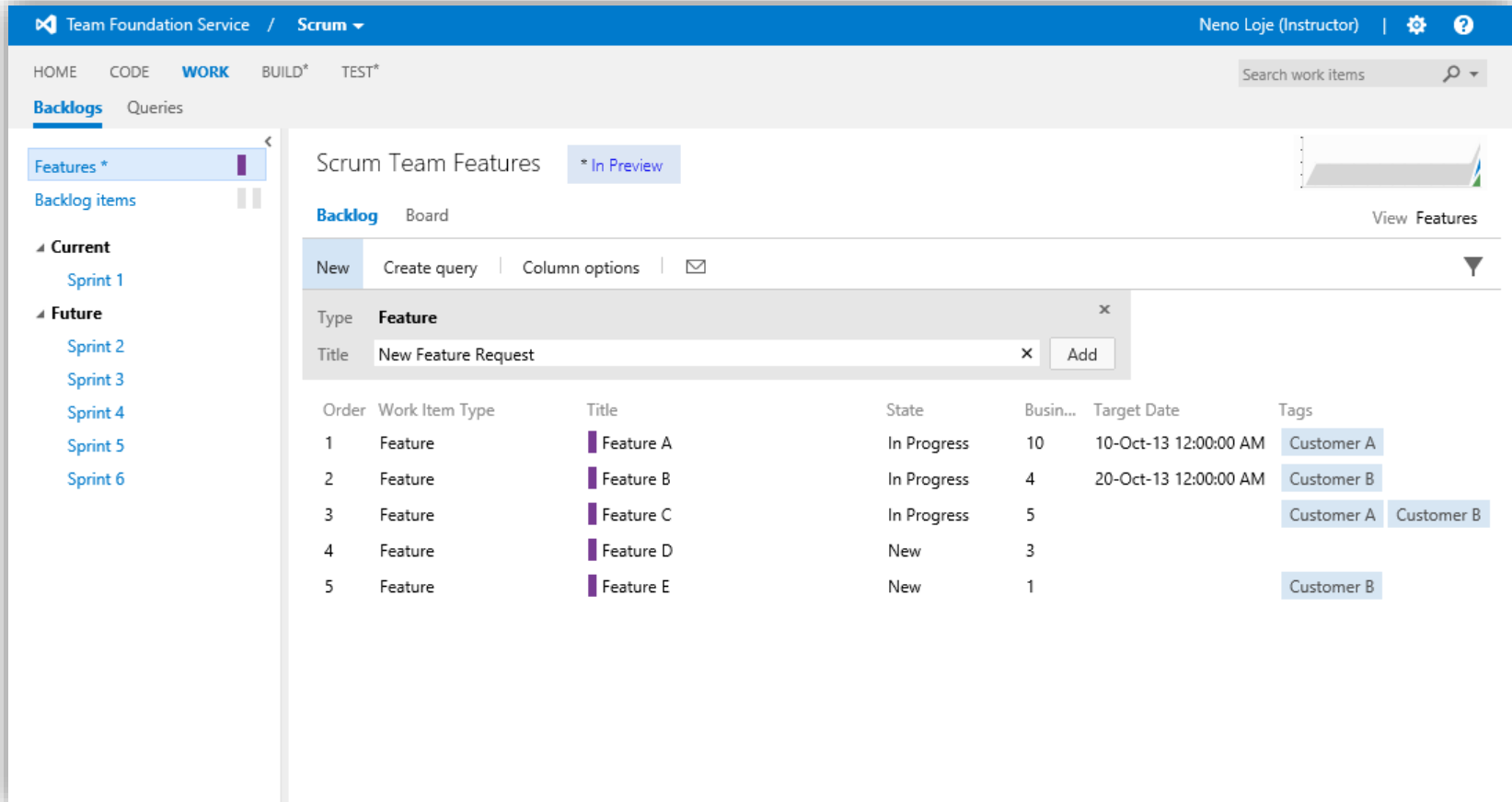
einzelne Arbeitsschritte
passen in einen Arbeitstag

Add Ideas as Features

Test Pro

Premium

Ultimate



The screenshot shows the Team Foundation Service interface for a Scrum team. The main view is the 'Scrum Team Features' backlog, which is currently in a 'Preview' state. A modal dialog box is open for adding a new feature, with the title 'New Feature Request'. Below the dialog, a table lists existing features with their order, type, title, state, business priority, target date, and tags.

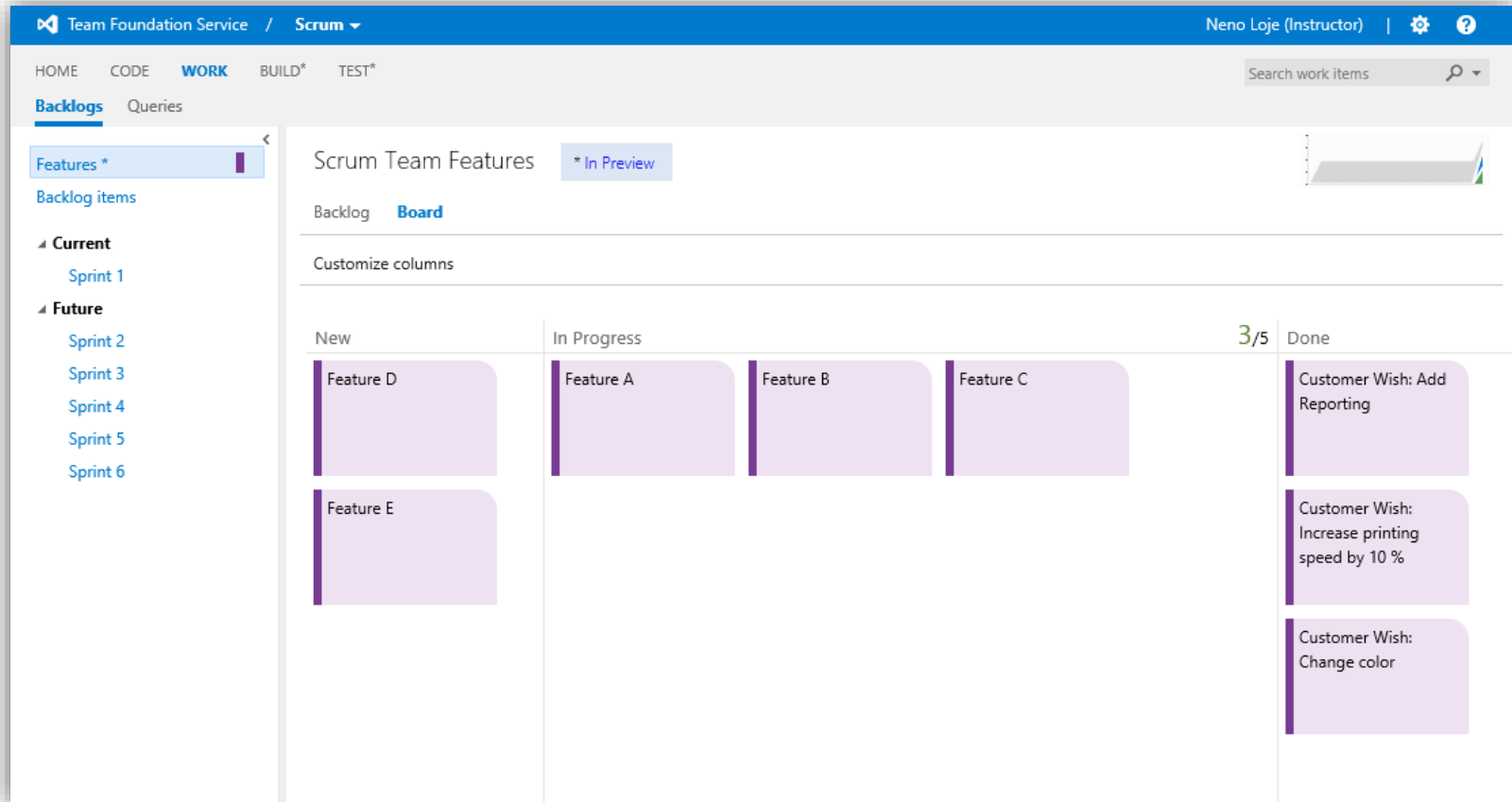
Order	Work Item Type	Title	State	Busin...	Target Date	Tags
1	Feature	Feature A	In Progress	10	10-Oct-13 12:00:00 AM	Customer A
2	Feature	Feature B	In Progress	4	20-Oct-13 12:00:00 AM	Customer B
3	Feature	Feature C	In Progress	5		Customer A Customer B
4	Feature	Feature D	New	3		
5	Feature	Feature E	New	1		Customer B

View Feature Progress on Board

Test Pro

Premium

Ultimate



The screenshot displays the Microsoft Team Foundation Service (TFS) Scrum interface. The top navigation bar includes 'Team Foundation Service / Scrum' and the user 'Neno Loje (Instructor)'. The main area shows a Scrum Board for 'Scrum Team Features' in 'In Preview' mode. The board is divided into columns: 'New', 'In Progress', and 'Done'. The 'In Progress' column is currently selected, showing 3 items out of 5 total items in the column. The items are represented by purple cards with a vertical progress bar on the left.

Column	Item	Progress
New	Feature D	Low
	Feature E	Low
In Progress	Feature A	Medium
	Feature B	Medium
	Feature C	Medium
Done	Customer Wish: Add Reporting	High
	Customer Wish: Increase printing speed by 10 %	High
	Customer Wish: Change color	High

Add details via Feature form

Test Pro

Premium

Ultimate

Feature 17: Feature A
✕

Tags

Customer A ✕

Add...

Feature A ✕

Iteration Scrum

STATUS

Assigned To

State In Progress

Reason Implementation started

DETAILS

Priority 2

Business Value 10

Target Date 10-Oct-13 12:00:00 AM 📅

Area Scrum

DESCRIPTION

IMPLEMENTATION (2)

📎
📎
↻
✖

ID	Title
↳ Child (2)	
19	PBI A.1
20	PBI A.2

ACCEPTANCE CRITERIA HISTORY LINKS (2) ATTACHMENTS

B / / U 📎 ✖ ☰ ☰ ↔ ↔ 🖼

Save
Save and close
Cancel

Features to Backlog Items

Test Pro

Premium

Ultimate

Team Foundation Service / Scrum

Neno Loje (Instructor)

HOME CODE WORK BUILD* TEST*

Search work items

Backlogs Queries

Features *
Backlog items

Current
 Sprint 1
Future
 Sprint 2
 Sprint 3
 Sprint 4
 Sprint 5
 Sprint 6

Scrum Team Features to Backlog items owned by any team * In Preview

Backlog Board

Create query | Column options |

Work Item Type	Title	State	Busin...	Target Date	
Feature	Feature A	In Progress	10	10-Oct-13 12:00:00	
Product Backlog Item	PBI A.1	Done			
Product Backlog Item	PBI A.2	Done			
Feature	Feature B	In Progress	4	20-Oct-13 12:00:00 AM	Customer B
Product Backlog Item	PBI B.1	Committed			
Product Backlog Item	PBI B.2	Committed			
Product Backlog Item	PBI B.3	Approved			
Feature	Feature C	In Progress	5		Customer A Customer B
Product Backlog Item	PBI C.1	Committed			
Product Backlog Item	PBI C.2	Approved			
Feature	Feature D	New	3		
Product Backlog Item	PBI D.1	New			
Feature	Feature E	New	1		Customer B

View Features to Backlog items

- Features
- Features to Backlog items
- Features to Tasks

Decompose into Backlog Items

Test Pro

Premium

Ultimate

Team Foundation Service / Scrum

Neno Loje (Instructor)

HOME CODE **WORK** BUILD* TEST*

Search work items

Backlogs Queries

Features *
Backlog items

Current
Sprint 1

Future
Sprint 2
Sprint 3
Sprint 4
Sprint 5
Sprint 6

Scrum Team Features to Backlog items owned by any team * In Preview

Backlog Board

View Features to Backlog items

Create query | Column options

Work Item Type	Title	State	Busin...	Target Date	Tags
Feature	Feature A	In Progress	10	10-Oct-13 12:00:00 AM	Customer A
Bug	PBI A.1	Done			
Product Backlog Item	PBI A.2	Done			
Feature	Feature B	In Progress	4	20-Oct-13 12:00:00 AM	Customer B
Product Backlog Item	PBI B.1	Committed			
Product Backlog Item	PBI B.2	Committed			
Product Backlog Item	PBI B.3	Approved			
Feature	Feature C	In Progress	5		Customer A Customer B
Product Backlog Item	PBI C.1	Committed			
Product Backlog Item	PBI C.2	Approved			
Feature	Feature D	New	3		
Product Backlog Item	PBI D.1	New			
Feature	Feature E	New	1		Customer B

Agile Portfolio Management

Test Pro

Premium

Ultimate

Team Foundation Service / Scrum

Neno Loje (Instructor)

HOME CODE WORK BUILD* TEST*

Search work items

Backlogs Queries

Features * Backlog items

Current Sprint 1

Future Sprint 2 Sprint 3 Sprint 4 Sprint 5 Sprint 6

Scrum Team Features to Tasks owned by any team * In Preview

Backlog Board View Features to Tasks

Create query Column options

Work Item Type	Title	State	Busin...	Target Date	Tags
Feature	Feature A	In Progress	10	10-Oct-13 12:00:00 AM	Customer A
Feature	Feature B	In Progress	4	20-Oct-13 12:00:00 AM	Customer B
Product Backlog Item	PBI B.1	Committed			
Task	Create database	To Do			
Task	Review architectural design o...	Done			
Task	Design implementation of fe...	To Do			
Task	Create UI for feature	In Progress			
Task	Design test cases	In Progress			
Task	Execute test cases	To Do			
Product Backlog Item	PBI B.2	Committed			
Product Backlog Item	PBI B.3	Approved			
Feature	Feature C	In Progress	5		Customer A Customer B
Feature	Feature D	New	3		
Feature	Feature E	New	1		Customer B

Board – Customizable Columns

2012.2

CUSTOMIZE COLUMNS

Title

WIP limit

Backlog items

State

Bug

Product Backlog Item

Team Foundation Service / Scrum / Team Blue

Neno Loje (Instructor)

HOME CODE **WORK** BUILD* TEST*

Search work items

Backlogs Queries

Team Blue Backlog items

Backlog **Board**

Customize columns


New	Approved 1/5	In Development 1/5	In Test 0/3	Done
	PBI C.2	PBI B.2		PBI A.2

Work Item Tags

2012.1

Scrum Team Features * In Preview


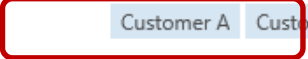
Backlog Board View Features

New Create query | Column options | 

Type **Feature** ×

Title × Add

Order	Work Item Type	Title	State	Busin...	Target Date	Tags
1	Feature	Feature A	In Progress	10	10-Oct-13 12:00:00 AM	Customer A
2	Feature	Feature B	In Progress	4	20-Oct-13 12:00:00 AM	Customer B
3	Feature	Feature C	In Progress	5		Customer A Customer B
4	Feature	Feature D	New	3		
5	Feature	Feature E	New	1		Customer B

Iteration Planning

Visual Studio Online / TechEd Neno Loje | ⚙️ ?

HOME CODE **WORK** BUILD TEST Search work items 🔍

Backlogs Queries

Features
Backlog items

Current
Sprint 1
 Future
 Sprint 2
 Sprint 3
 Sprint 4
 Sprint 5
 Sprint 6

TechEd Team Sprint 1 No iteration dates
[Set dates](#)

Backlog Board Capacity

| Create query | Column options |

Title	State	Assigned To	Rema...
<ul style="list-style-type: none"> New customer Testing of validation Exploratory Testing Customer validation after receiving email Save to database Email informing customer of credentials Verify user details - validation New user screen 	<ul style="list-style-type: none"> Committed In Progress To Do Done Done Done Done Done 		<ul style="list-style-type: none"> 12 2 10
<ul style="list-style-type: none"> Login options - username and password Build the login authentication mechanism Login validation Build the database auditing Login visuals Exploratory testing Logging to track multiple failed attempts 	<ul style="list-style-type: none"> Done In Progress In Progress In Progress To Do To Do 		<ul style="list-style-type: none"> 21 5 5 6 3 2

Work details On

Work

Team (33 h)

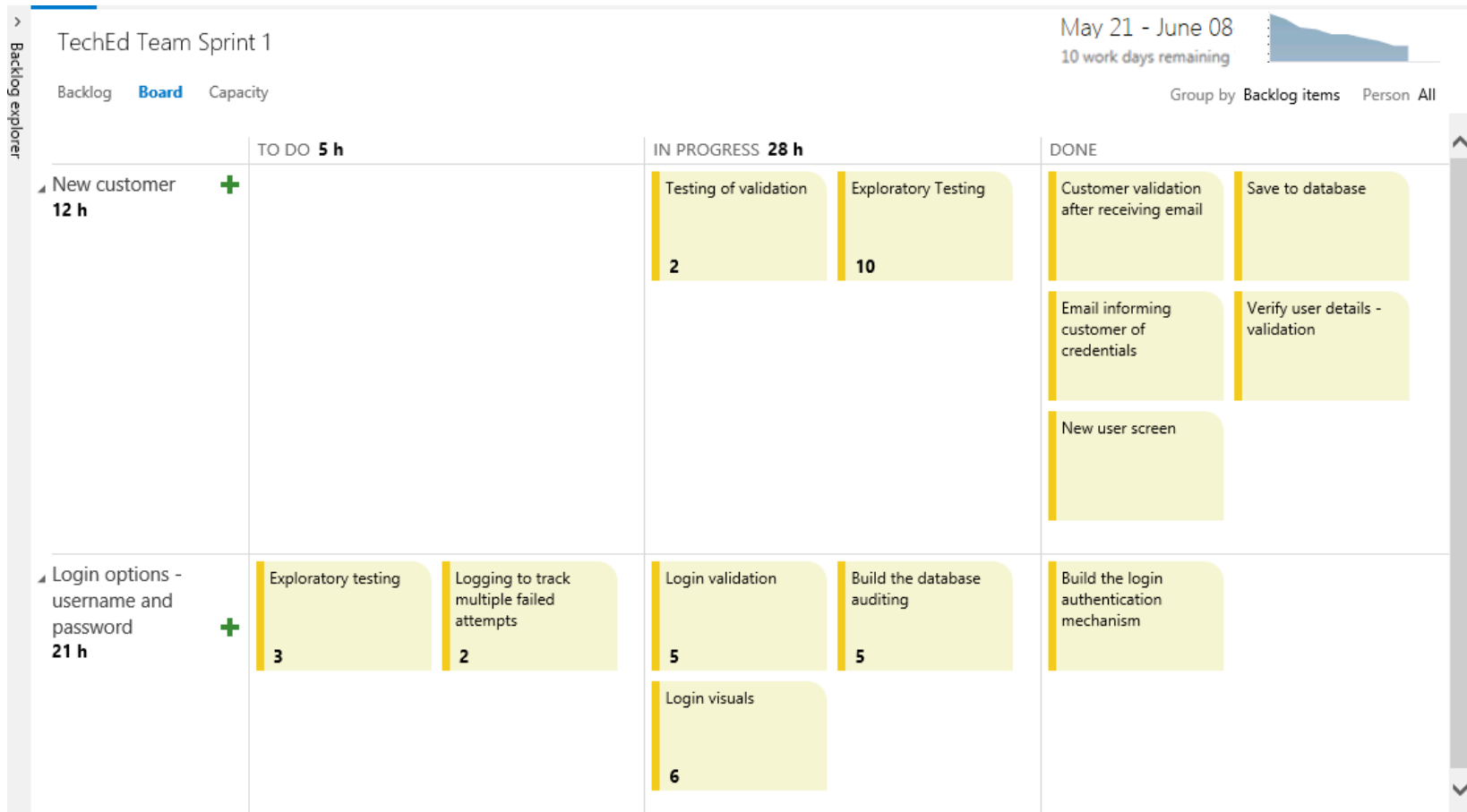
Work By: Activity

Unassigned (33 h)

Work By: Assigned To

Unassigned (33 h)

Task Board



Project Alerts (E-Mail-Benachrichtigungen)

Control Panel > FabrikamFiberCollection > FabrikamFiber

overview | iterations | areas | security | **alerts**

Brian Keller

Fabrikam Fiber Web Team Alerts

- Work Item Alerts
- Checkin Alerts
- Build Alerts
- Code Review Alerts
- My Alerts
- All Alerts

ADMINISTRATOR ACTIONS

Find alerts for a specific user

CREATE NEW ALERT WHEN

- A build fails
- My build completes
- A file is checked in under a specified path
- A code review I am working on changes
- A change is made to a work item that I created
- A work item is assigned to me
- Other...

Fabrikam Fiber Web Team Alerts

SELECT NEW ALERT TEMPLATE

Scope (who can view and manage this alert)

Alert Category

Category	Template Name
Build	A build completes
Build	A build fails
Build	My build completes
Build	A build controller or agent's status changes
Build	A build quality is changed
Checkin	A checkin is submitted by me
Checkin	A checkin occurs with a policy overridden
Checkin	A file is checked in under a folder with a specific name
Checkin	A file is checked in under a specified path
Checkin	A file with a specific file extension is checked in
Checkin	A checkin occurs in this team project

OK Cancel


Team Foundation Server | About


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Work Item History


New task → To Do → Work started → In Progress → Work finished → Done
 Julia Ilyiana 5/7/2012 Brian Keller 5/16/2012 Brian Keller 5/16/2012

DISCUSSION ONLY ALL CHANGES

 **Cameron Skinner** (*less than a minute ago*)
 No, I don't. Sorry.


 **Brian Keller** (*4 minutes ago*)
 Do you know why we decided to do it that way?


 **LOCAL SERVICE** (*5 days ago*)
 The Fixed In field was updated as part of associating work items with the build.

 **Brian Keller** (*5 days ago*)
 Resolved with changeset 24.

New task → To Do → Work started → In Progress → Work finished → Done
 Julia Ilyiana 5/7/2012 Brian Keller 5/16/2012 Brian Keller 5/16/2012

DISCUSSION ONLY ALL CHANGES

▷  **LOCAL SERVICE** *added comment, made field changes (5 days ago)*

▲  **Brian Keller** *changed state from In Progress to Done, added comment, made other changes (5 days ago)*

Resolved with changeset 24.

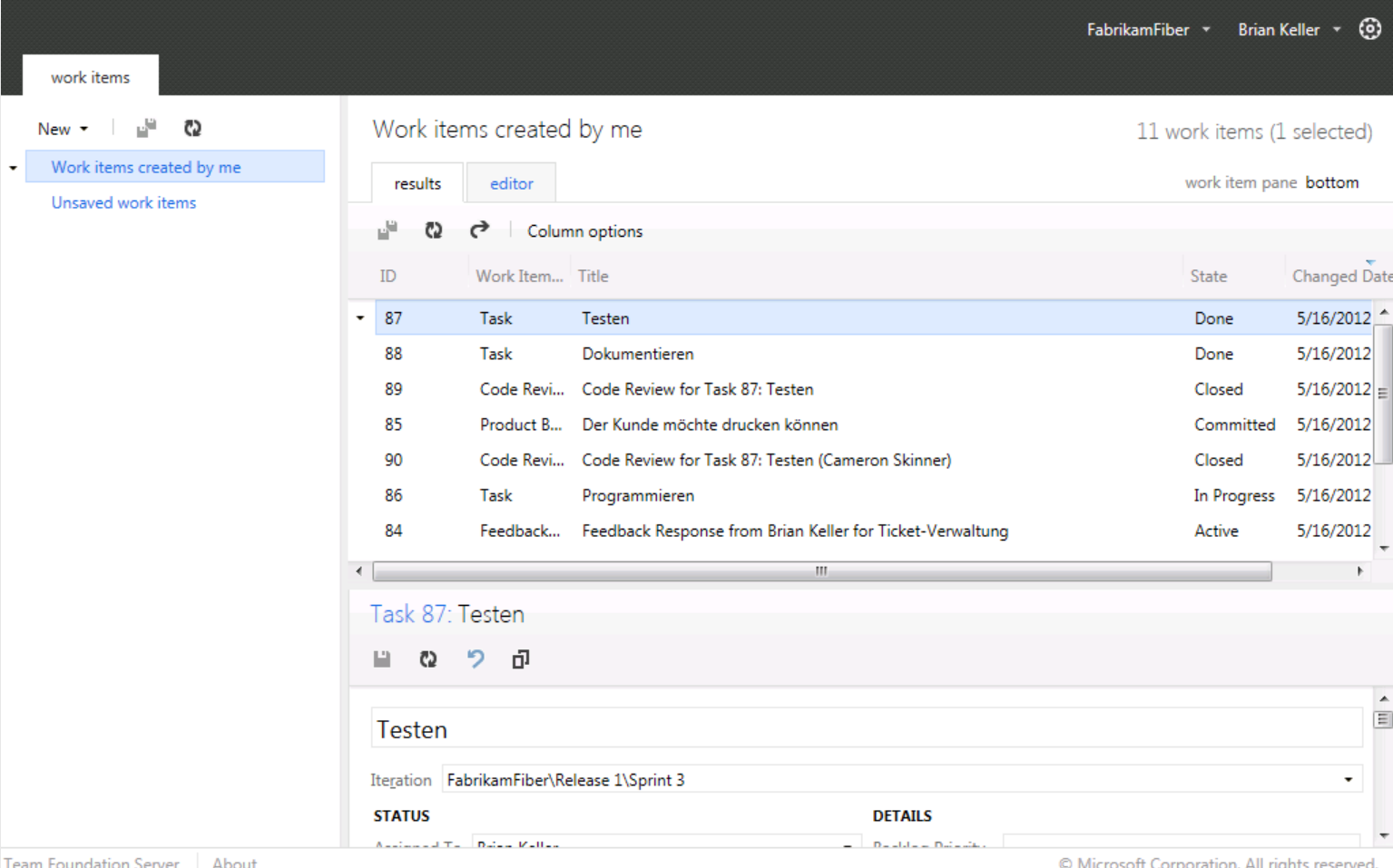
▲ Fields

Field	Old Value	New Value
State	In Progress	Done
Rev	4	5
Reason	Work started	Work finished
Remaining Work	6	

▲ Links

Type	Description	Comment	Change
ExternalLink	vstfs:///VersionControl/Changeset/24		Added

Work Item Only View (WIOV)



The screenshot displays the 'Work items created by me' view in Team Foundation Server. The interface includes a navigation pane on the left with options like 'New', 'Work items created by me', and 'Unsaved work items'. The main area shows a list of work items with columns for ID, Work Item Type, Title, State, and Changed Date. The selected work item, ID 87, is a 'Task' titled 'Testen' with a state of 'Done' and a changed date of 5/16/2012. Below the list, the details for 'Task 87: Testen' are shown, including a text field for the title, an iteration path of 'FabrikamFiber\Release 1\Sprint 3', and sections for 'STATUS' and 'DETAILS'.

ID	Work Item...	Title	State	Changed Date
87	Task	Testen	Done	5/16/2012
88	Task	Dokumentieren	Done	5/16/2012
89	Code Revi...	Code Review for Task 87: Testen	Closed	5/16/2012
85	Product B...	Der Kunde möchte drucken können	Committed	5/16/2012
90	Code Revi...	Code Review for Task 87: Testen (Cameron Skinner)	Closed	5/16/2012
86	Task	Programmieren	In Progress	5/16/2012
84	Feedback...	Feedback Response from Brian Keller for Ticket-Verwaltung	Active	5/16/2012

Task 87: Testen

Testen

Iteration: FabrikamFiber\Release 1\Sprint 3

STATUS

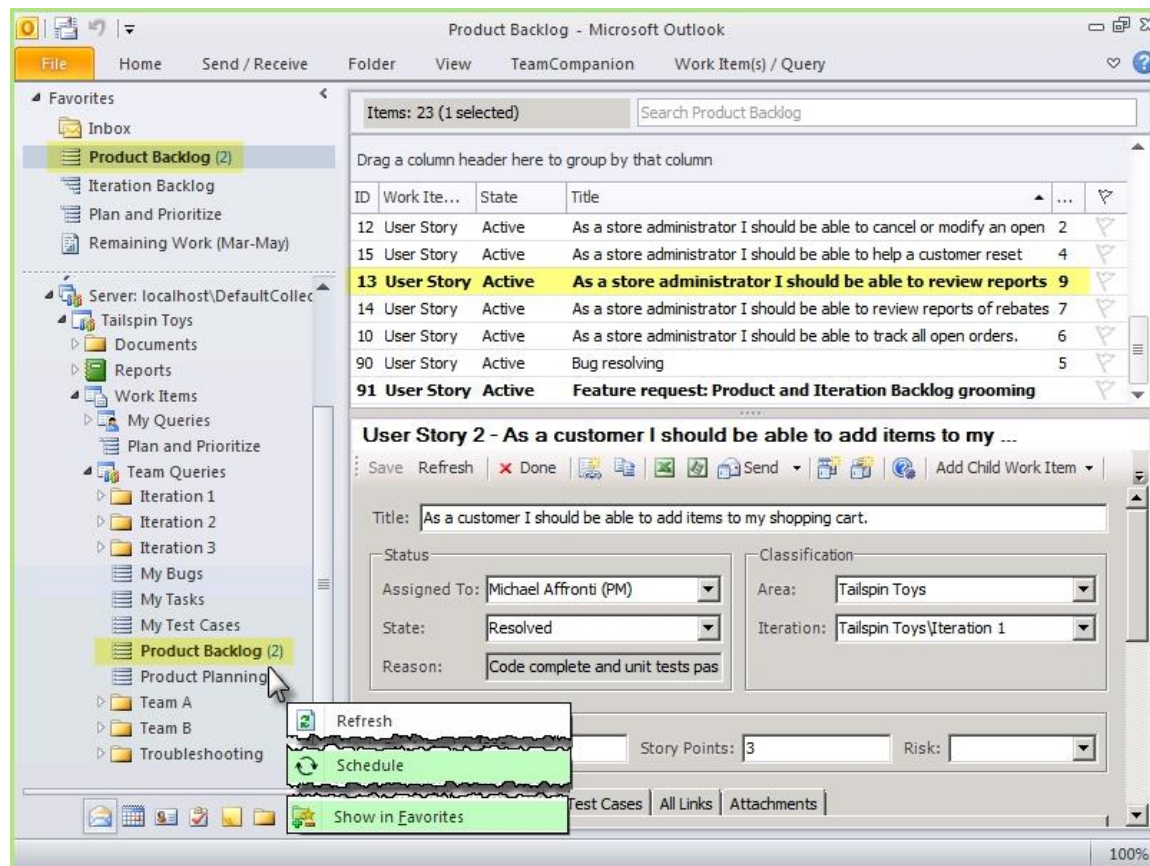
DETAILS

Assigned To: Brian Keller

Team Foundation Server | About | © Microsoft Corporation. All rights reserved.

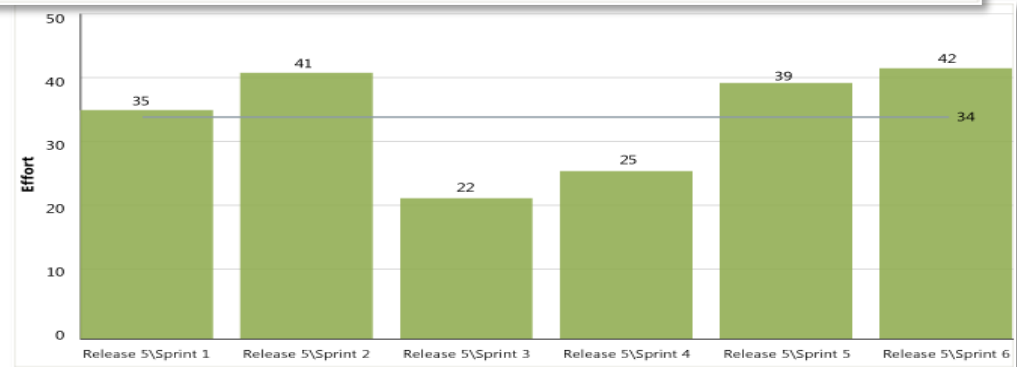
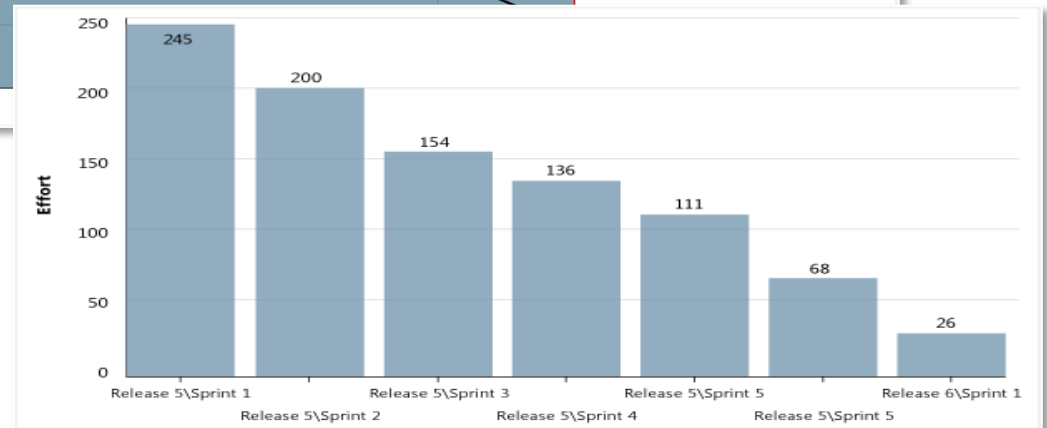
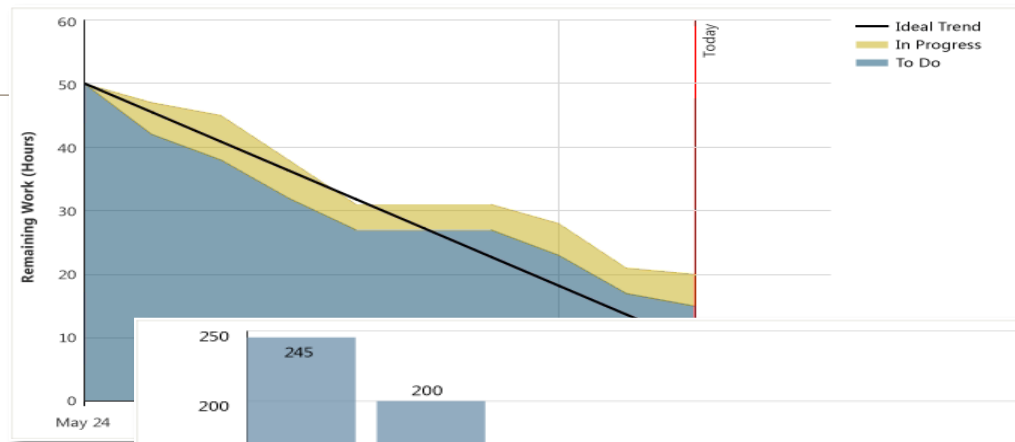
Drittanbieter komplettieren das Bild

- Hier am Beispiel einer TFS-Integration für Outlook:



Reports

- Scrum reports
 - Backlog Overview
 - Release Burndown
 - Sprint Burndown
 - Velocity
- Engineering reports
 - Builds Success Over Time
 - Build Summary
 - Test Case Readiness
 - Test Plan Progress

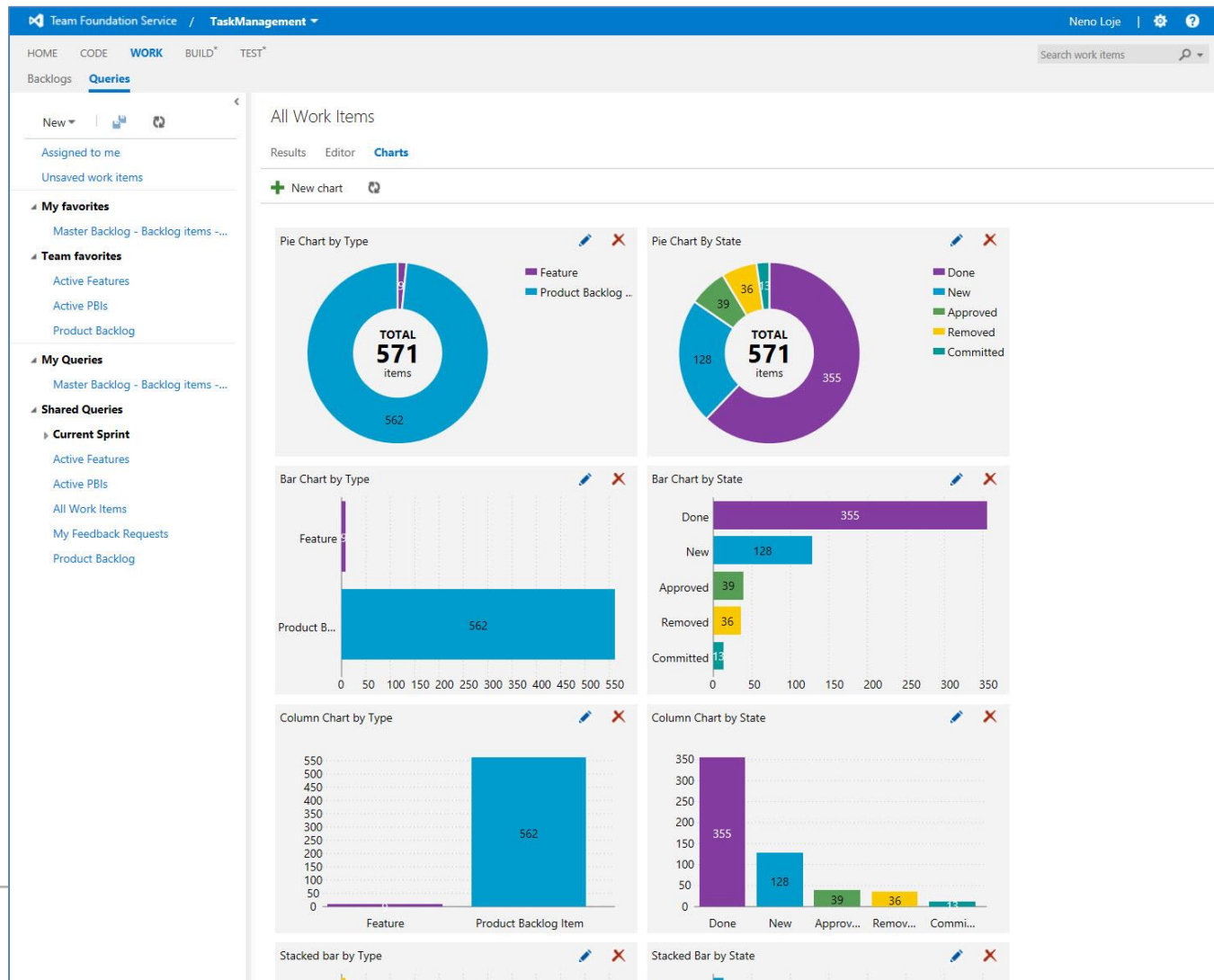


Work Item Charting

Test Pro

Premium

Ultimate



TFS API-Beispiel

```
static void Main()
{
    var tfs = TfsTeamProjectCollectionFactory.GetTeamProjectCollection(
        new Uri("http://localhost:8080/tfs/"));

    tfs.EnsureAuthenticated();
    MessageBox.Show("Du bist verbunden als: " + tfs.AuthorizedIdentity.DisplayName);

    var wistore = tfs.GetService<workItemStore>();
    var wit = wistore.Projects["Scrum"].workItemTypes["Product Backlog Item"];

    var wi = new workItem(wit);
    wi.Title = "Hallo welt";
    wi.History = "Automatisch erzeugt aus unserem kleinen Tool.";

    wi.Save();
    MessageBox.Show("work Item erzeugt mit ID = " + wi.Id);
}
```

Traceability

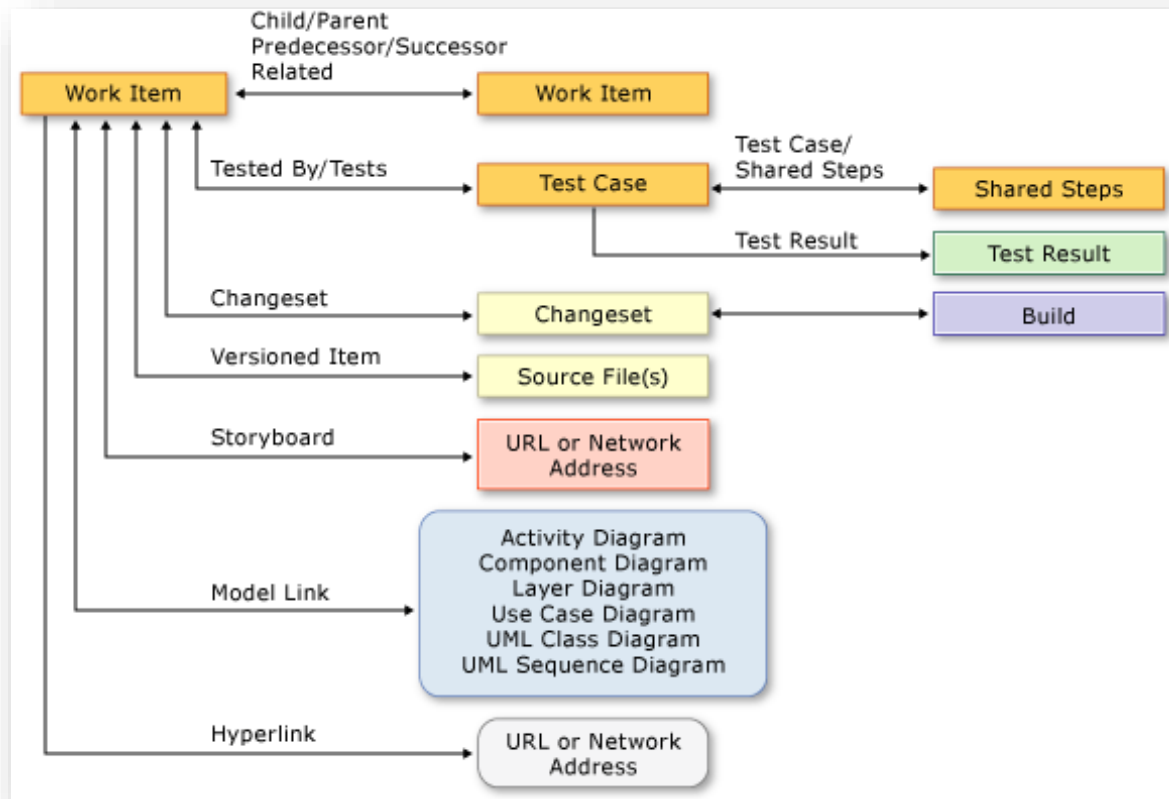
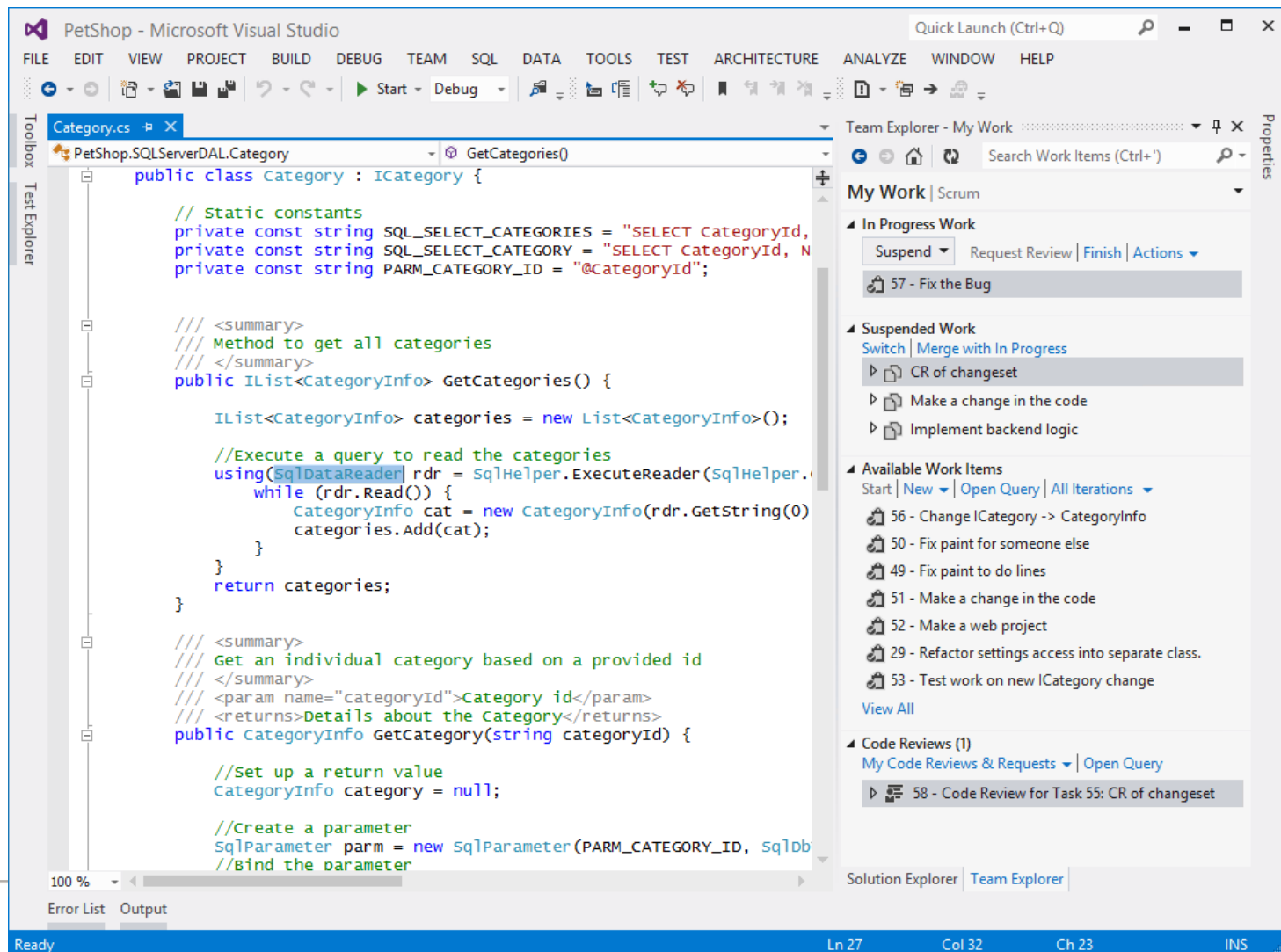


Illustration taken from MSDN

Link: <http://msdn.microsoft.com/en-us/library/dd293534.aspx>

"My Work"



The screenshot displays the Microsoft Visual Studio IDE. The main editor window shows the code for `Category.cs` in the `PetShop.SQLServerDAL.Category` namespace, specifically the `GetCategories()` method. The code includes static constants for SQL queries and a method that returns a list of `CategoryInfo` objects.

```

public class Category : ICategory {

    // Static constants
    private const string SQL_SELECT_CATEGORIES = "SELECT CategoryId,
    private const string SQL_SELECT_CATEGORY = "SELECT CategoryId, N
    private const string PARM_CATEGORY_ID = "@CategoryId";

    /// <summary>
    /// Method to get all categories
    /// </summary>
    public IList<CategoryInfo> GetCategories() {

        IList<CategoryInfo> categories = new List<CategoryInfo>();

        //Execute a query to read the categories
        using(SqlDataReader rdr = SqlHelper.ExecuteReader(SqlHelper.
            while (rdr.Read()) {
                CategoryInfo cat = new CategoryInfo(rdr.GetString(0)
                categories.Add(cat);
            }
        }
        return categories;
    }

    /// <summary>
    /// Get an individual category based on a provided id
    /// </summary>
    /// <param name="categoryId">Category id</param>
    /// <returns>Details about the Category</returns>
    public CategoryInfo GetCategory(string categoryId) {

        //Set up a return value
        CategoryInfo category = null;

        //Create a parameter
        SqlParameter parm = new SqlParameter(PARM_CATEGORY_ID, SqlDbType
        //Bind the parameter
    }
}
    
```

On the right side of the IDE, the **My Work** Scrum board is visible, showing a list of work items categorized into **In Progress Work**, **Suspended Work**, **Available Work Items**, and **Code Reviews (1)**.

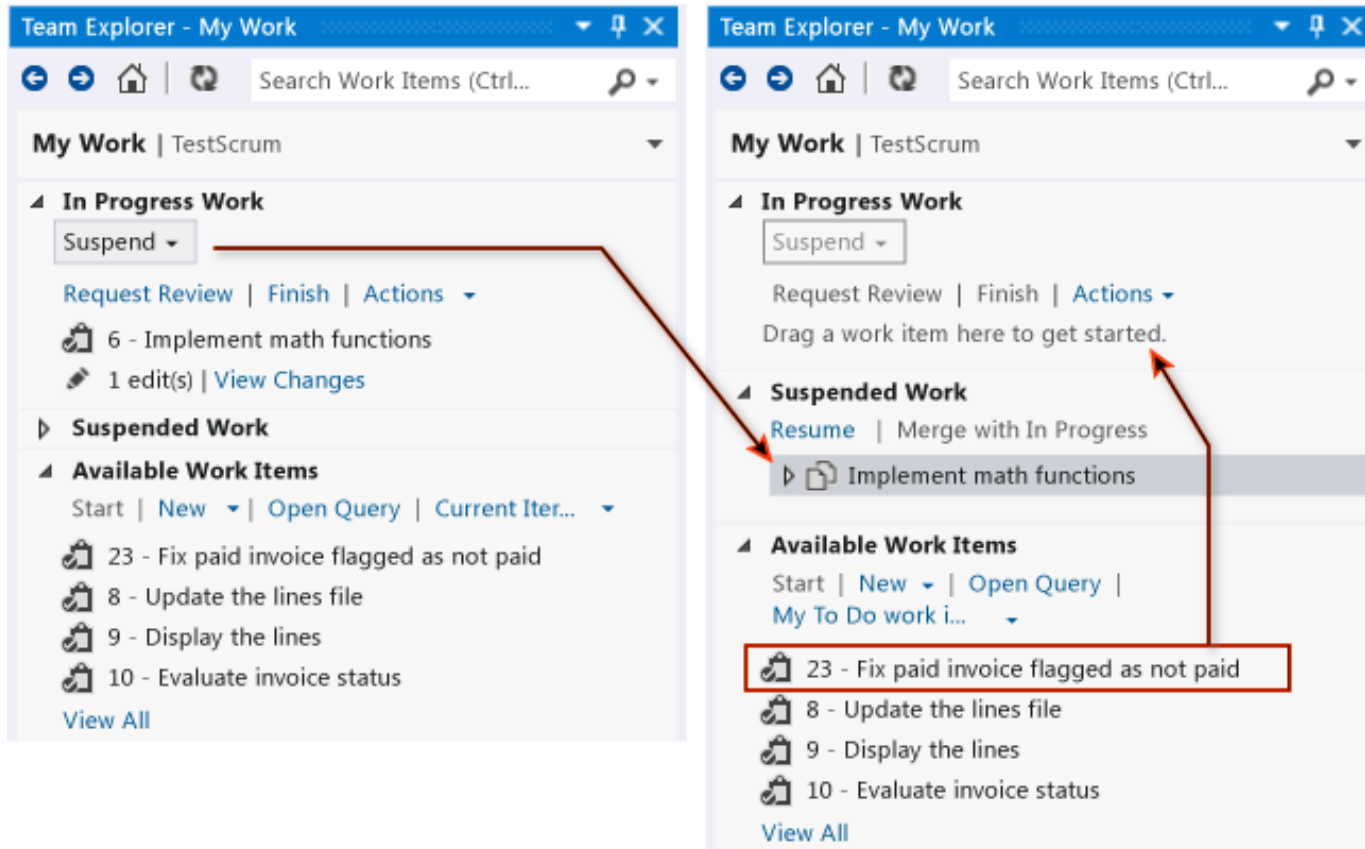
- In Progress Work:** 57 - Fix the Bug
- Suspended Work:** CR of changeset, Make a change in the code, Implement backend logic
- Available Work Items:** 56 - Change ICategory -> CategoryInfo, 50 - Fix paint for someone else, 49 - Fix paint to do lines, 51 - Make a change in the code, 52 - Make a web project, 29 - Refactor settings access into separate class, 53 - Test work on new ICategory change
- Code Reviews (1):** 58 - Code Review for Task 55: CR of changeset

The status bar at the bottom indicates the current position: **Ready**, **Ln 27**, **Col 32**, **Ch 23**, **INS**.

Zwischen Aufgaben hin und her wechseln

"Suspend" & Resume

Peter switches work context



The image shows two side-by-side screenshots of the Team Explorer 'My Work' view for a project named 'TestScrum'. The left screenshot shows the 'In Progress Work' section with a 'Suspend' button. A red arrow points from this button to the right screenshot. In the right screenshot, the 'Suspended Work' section is active, and the work item 'Implement math functions' is highlighted. Another red arrow points from this item to the 'Available Work Items' section, where the item '23 - Fix paid invoice flagged as not paid' is highlighted with a red box. The 'Available Work Items' section also shows a 'Resume' button for the suspended work.

Team Explorer - My Work

Search Work Items (Ctrl...)

My Work | TestScrum

In Progress Work

Suspend ▾

Request Review | Finish | Actions ▾

6 - Implement math functions

1 edit(s) | View Changes

Suspended Work

Available Work Items

Start | New ▾ | Open Query | Current Iter... ▾

23 - Fix paid invoice flagged as not paid

8 - Update the lines file

9 - Display the lines

10 - Evaluate invoice status

View All

Team Explorer - My Work

Search Work Items (Ctrl...)

My Work | TestScrum

In Progress Work

Suspend ▾

Request Review | Finish | Actions ▾

Drag a work item here to get started.

Suspended Work

Resume | Merge with In Progress

Implement math functions

Available Work Items

Start | New ▾ | Open Query | My To Do work i... ▾

23 - Fix paid invoice flagged as not paid

8 - Update the lines file

9 - Display the lines

10 - Evaluate invoice status

View All

Code Review anfordern

The screenshot displays the Microsoft Visual Studio interface. The main editor shows the following C# code for the `Address` class:

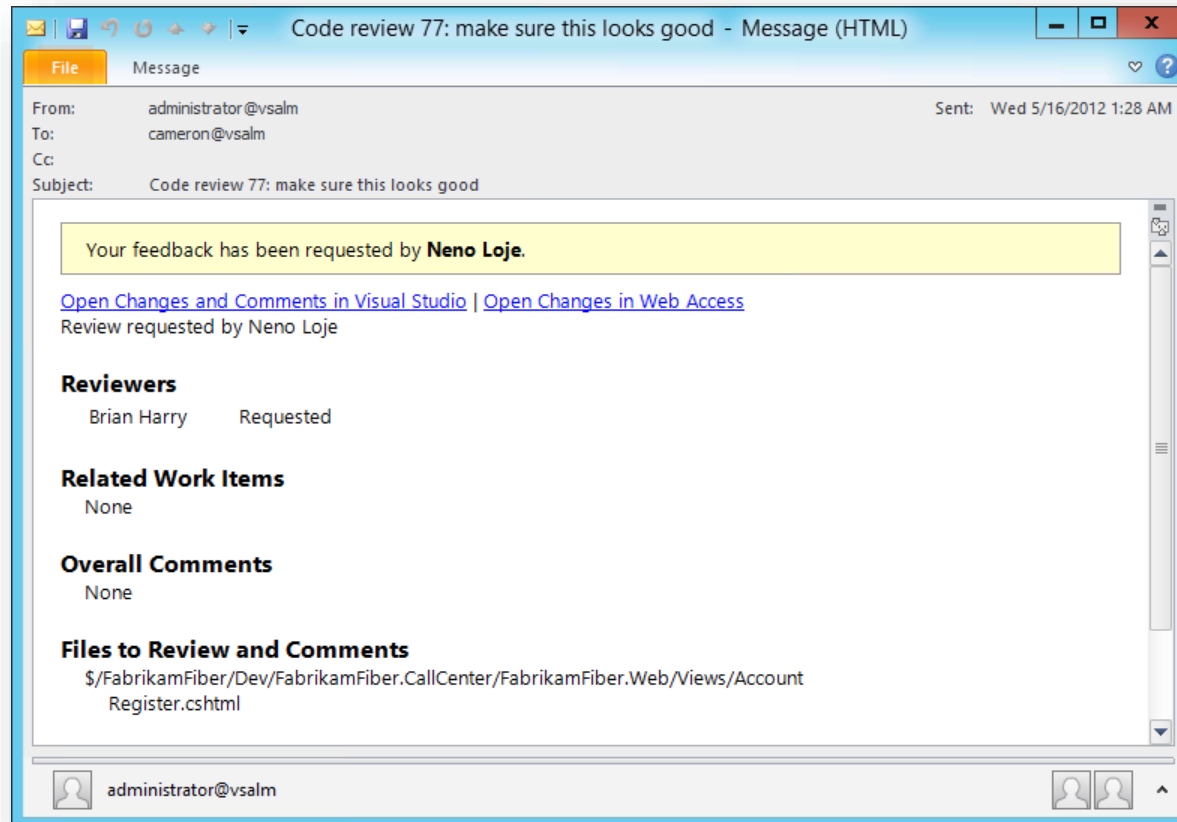
```
using System.ComponentModel.DataAnnotations;

namespace FabrikamFiber.DAL.Models
{
    public class Address
    {
        public string Street { get; set; }
        public string City { get; set; }
        public string State { get; set; }

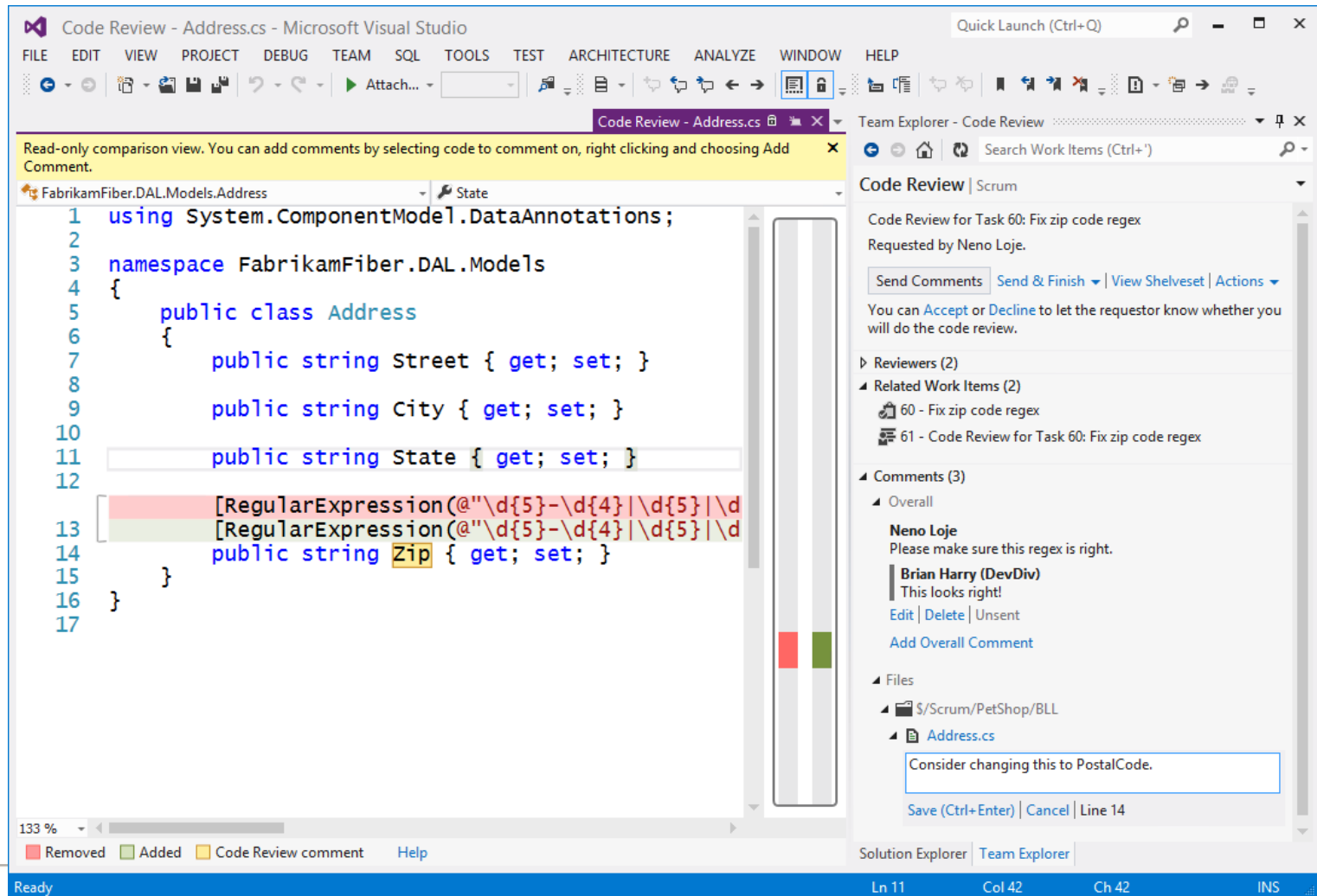
        [RegularExpression(@"\d{5}-\d{4}|\d{5}|\d{9}|[ABCE]
        public string Zip { get; set; }
    }
}
```

The right-hand side of the window shows the 'Team Explorer - New Code Review' dialog. The review is for a Scrum work item titled 'Code Review for Task 60: Fix zip code regex'. The reviewer is 'Sam Guckenheimer'. A dropdown menu shows 'Brian Harry' as a potential reviewer. A comment box contains the text: 'Please make sure this regex is right.' The dialog includes 'Submit Request' and 'Cancel' buttons, and a section for 'Related Work Items (1)' listing '60 - Fix zip code regex'.

Code Review Request



Code Review durchführen



Code Review - Address.cs - Microsoft Visual Studio

FILE EDIT VIEW PROJECT DEBUG TEAM SQL TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Code Review - Address.cs

Read-only comparison view. You can add comments by selecting code to comment on, right clicking and choosing Add Comment.

FabrikamFiber.DAL.Models.Address State

```

1 using System.ComponentModel.DataAnnotations;
2
3 namespace FabrikamFiber.DAL.Models
4 {
5     public class Address
6     {
7         public string Street { get; set; }
8         public string City { get; set; }
9
10        public string State { get; set; }
11
12        [RegularExpression(@"\d{5}-\d{4}|\d{5}|\d{5}")]
13        [RegularExpression(@"\d{5}-\d{4}|\d{5}|\d{5}")]
14        public string Zip { get; set; }
15    }
16 }
17

```

Code Review | Scrum

Code Review for Task 60: Fix zip code regex
Requested by Neno Loje.

Send Comments Send & Finish View Shelveset Actions

You can Accept or Decline to let the requestor know whether you will do the code review.

Reviewers (2)

Related Work Items (2)

- 60 - Fix zip code regex
- 61 - Code Review for Task 60: Fix zip code regex

Comments (3)

- Overall
 - Neno Loje
Please make sure this regex is right.
 - Brian Harry (DevDiv)
This looks right!
Edit Delete Unsent

Add Overall Comment

Files

- S/Scrum/PetShop/BLL
 - Address.cs

Consider changing this to PostalCode.

Save (Ctrl+Enter) Cancel Line 14

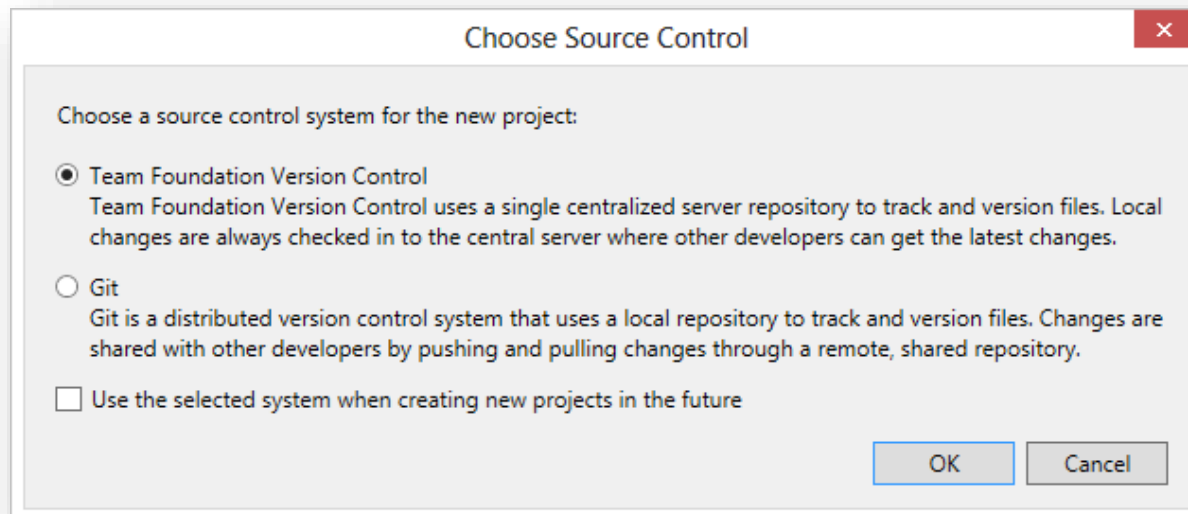
133 %

Removed Added Code Review comment Help

Solution Explorer Team Explorer

Ready Ln 11 Col 42 Ch 42 INS

TFVC oder Git?



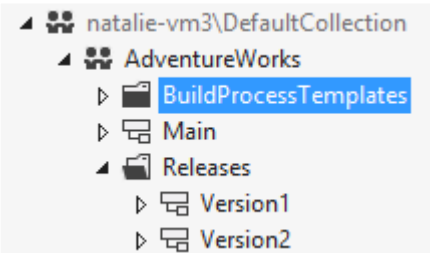
Versionsverwaltung – 3 Möglichkeiten

	Team Foundation Version Control (TFVC)		Git
	Server Workspace:	Local Workspace:	Distributed source control:
Verfügbar ab:	TFS 2010	TFS 2012 mit VS 2012, Eclipse	TFS 2013
Einstellbar durch:	Benutzer, wenn online	Benutzer, wenn online	Administrator, beim Anlegen eines Teamprojekts
Check-Out-Verhalten:	Vorher auschecken	Auschecken nicht nötig	Man arbeitet nur lokal
Offline-unterstützung:	Es geht, aber nicht sehr komfortabel.	Ja, inklusive „Compare“ & „Zurück zur letzten Version“	Ja
Hinweise:	<ul style="list-style-type: none"> • Optimiert für Schnelligkeit 	<ul style="list-style-type: none"> • Benötigt mehr Speicherplatz • Keine Check-Out-Sperre • Man sieht nicht, wer was ausgecheckt hat 	<ul style="list-style-type: none"> • Vollwertige Versionsverwaltung auf lokalem PC
Ideal für:	<ul style="list-style-type: none"> • PCs mit stabiler Verbindung zum TFS 	<ul style="list-style-type: none"> • Offline Arbeiten • Arbeiten mit anderen Programmen als Visual Studio 	<ul style="list-style-type: none"> • Verteile Teams können hier evtl. mehr Vorteile haben • Einige Risiken durch Merging

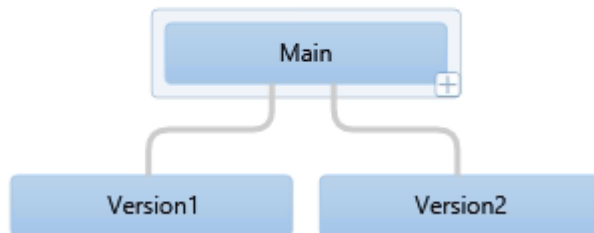
Git – Was es wirklich bedeutet...

Substantive	
   git [tech.]	 der Einguss <i>[Gießerei]</i>
   git (Brit.) [coll.]	 der Blödmann
   git (Brit.) [coll.]	 der Depp
   git (Brit.) [coll.]	 der Idiot

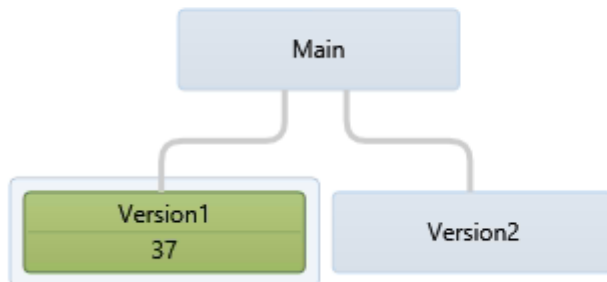
Branching & Merging



Main Branch Hierarchy



Tracking Changeset 37



Tracking Changeset 47

2012 Jun 30 6/30/2012 3:44:08 PM

Version1

Version2

Main



Changeset 47
 Changeset owner: Neno Loje
 Created on: 6/30/2012 3:44:08 PM
 Comment: MERGE from Version1 to MAIN

Changeset Details | AdventureW

Changeset 37

Neno Loje - 6/30/2012 6:44:37 AM

Save | Rollback | Track | Actions ▾

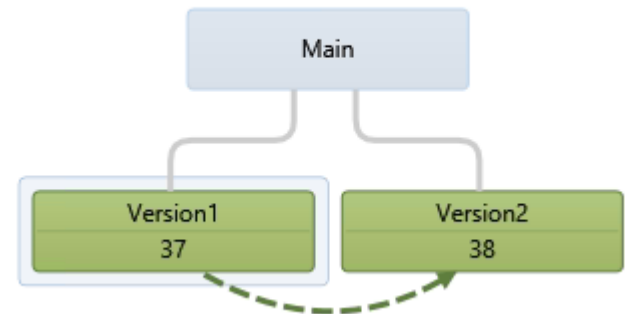
Comment

Some changes

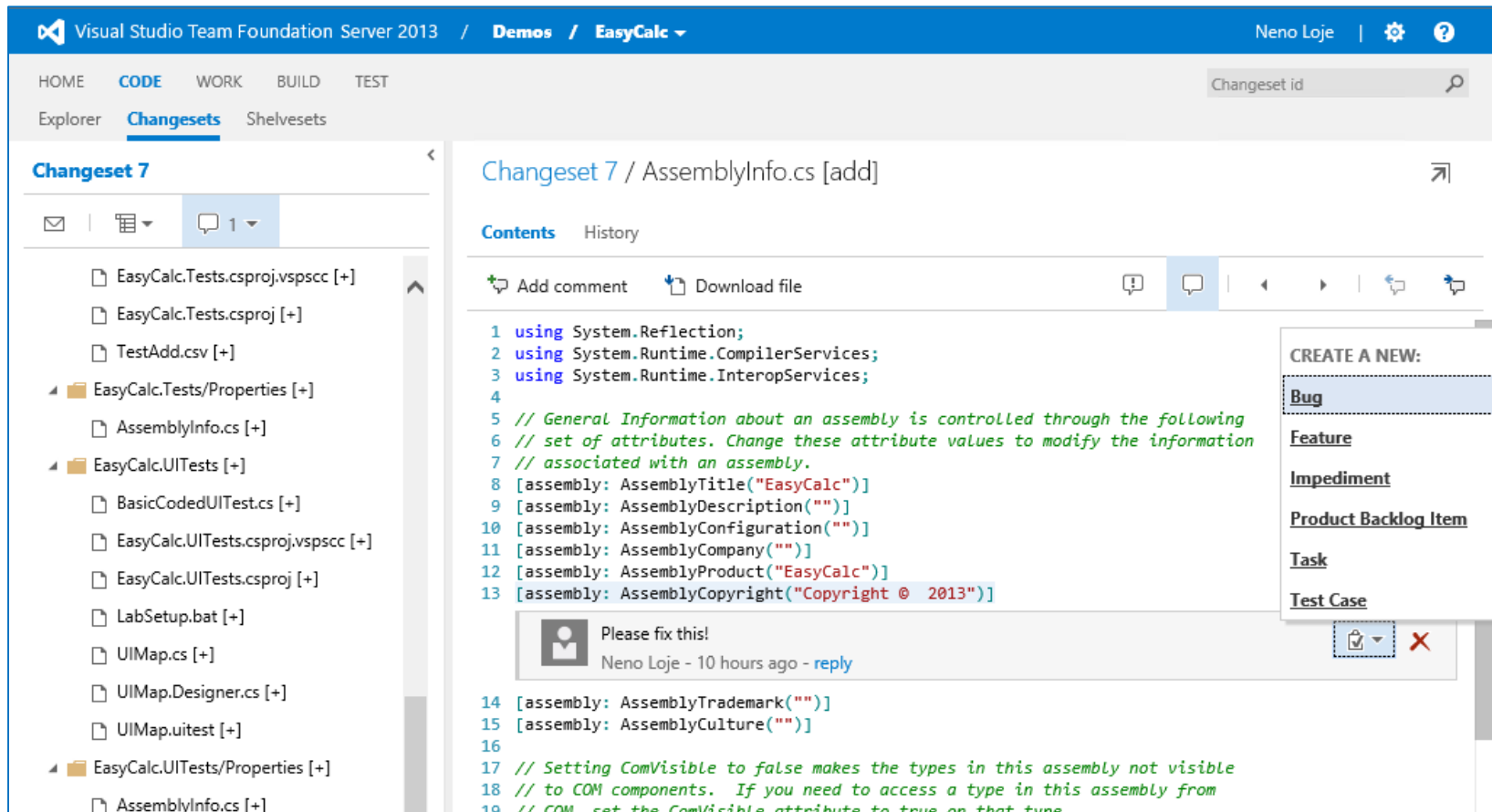
Changes (1)

Show All ▾

Tracking Changeset 37



Comments on Changesets & Shelvesets



Visual Studio Team Foundation Server 2013 / Demos / EasyCalc

HOME CODE WORK BUILD TEST

Explorer **Changesets** Shelvesets

Changeset 7

Changeset 7 / AssemblyInfo.cs [add]

Contents History

Add comment Download file

```

1 using System.Reflection;
2 using System.Runtime.CompilerServices;
3 using System.Runtime.InteropServices;
4
5 // General Information about an assembly is controlled through the following
6 // set of attributes. Change these attribute values to modify the information
7 // associated with an assembly.
8 [assembly: AssemblyTitle("EasyCalc")]
9 [assembly: AssemblyDescription("")]
10 [assembly: AssemblyConfiguration("")]
11 [assembly: AssemblyCompany("")]
12 [assembly: AssemblyProduct("EasyCalc")]
13 [assembly: AssemblyCopyright("Copyright © 2013")]
14 [assembly: AssemblyTrademark("")]
15 [assembly: AssemblyCulture("")]
16
17 // Setting ComVisible to false makes the types in this assembly not visible
18 // to COM components. If you need to access a type in this assembly from
19 // COM, set the ComVisible attribute to true on that type

```

Please fix this!
Neno Loje - 10 hours ago - reply

CREATE A NEW:

- Bug
- Feature
- Impediment
- Product Backlog Item
- Task
- Test Case

Schritt 1: Automatischen Build aktivieren

- General
- Trigger
- Source Settings
- ⚠ Build Defaults
- Process
- Retention Policy

Team Foundation Build uses a build process template defined by a Windows Workflow (XAML) file. The behavior of this template can be customized by setting the build process parameters provided by the selected template.

Build process template:
TfvcTemplate.12.xaml ▼ Show details

Build process parameters:


1. TF Version Control	
1. Clean workspace	True
2. Get version	
3. Label Sources	True
2. Build	
1. Projects	\$/FabrikamFiber/Dev/FabrikamFiber.CallCenter/FabrikamFiber.CallCenter.sln
2. Configurations	
3. Clean build	True
4. Output location	SingleFolder
5. Advanced	
MSBuild arguments	
MSBuild platform	Auto
Perform code analysis	AsConfigured
Post-build script arguments	
Post-build script path	...
Pre-build script arguments	
Pre-build script path	
3. Test	
1. Automated tests	1 set(s) of tests specified.
2. Advanced	
4. Publish Symbols	
Path to publish symbols	

Post-build script path
Specify the path to a custom script that runs after the MSBuild activity successfully completes.

Ergebnisbericht

Build WinCalc_Main_CI_20120623.3 - Build succeeded

[View Summary](#) | [View Log](#) | [Open Drop Folder](#) | [Diagnostics](#) | [Ready for Initial Test](#) | [Actions](#)

 Neno Loje triggered WinCalc_Main_CI (Calculator) for changeset 27
Ran for 59 seconds (H22BUILD - Controller), completed 6.3 minutes ago

Latest Activity

Build last modified by NETWORK SERVICE 0 seconds ago.

Request Summary

[Request 16](#), requested by Neno Loje 7.3 minutes ago, Completed

Summary

Debug | Any CPU

0 error(s), 0 warning(s)

- ▲ `$/Calculator/Main/src/WinCalc/WinCalc.sln` compiled
`$/Calculator/Main/src/WinCalc/WinCalc.sln` - 0 error(s), 0 warning(s), [View Log File](#)
- ▲ 1 test run completed - 100% pass rate
!Lab, 1 of 1 test(s) passed
- ▲ 2 binaries instrumented - 19% of all code blocks covered
wincalc.tests.dll - 100% of 4 code blocks covered
wincalc.exe - 7% of 27 code blocks covered

Associated Changesets

[Changeset 27](#), Checked in by Neno Loje
Fixed code analysis warnings

Associated Work Items

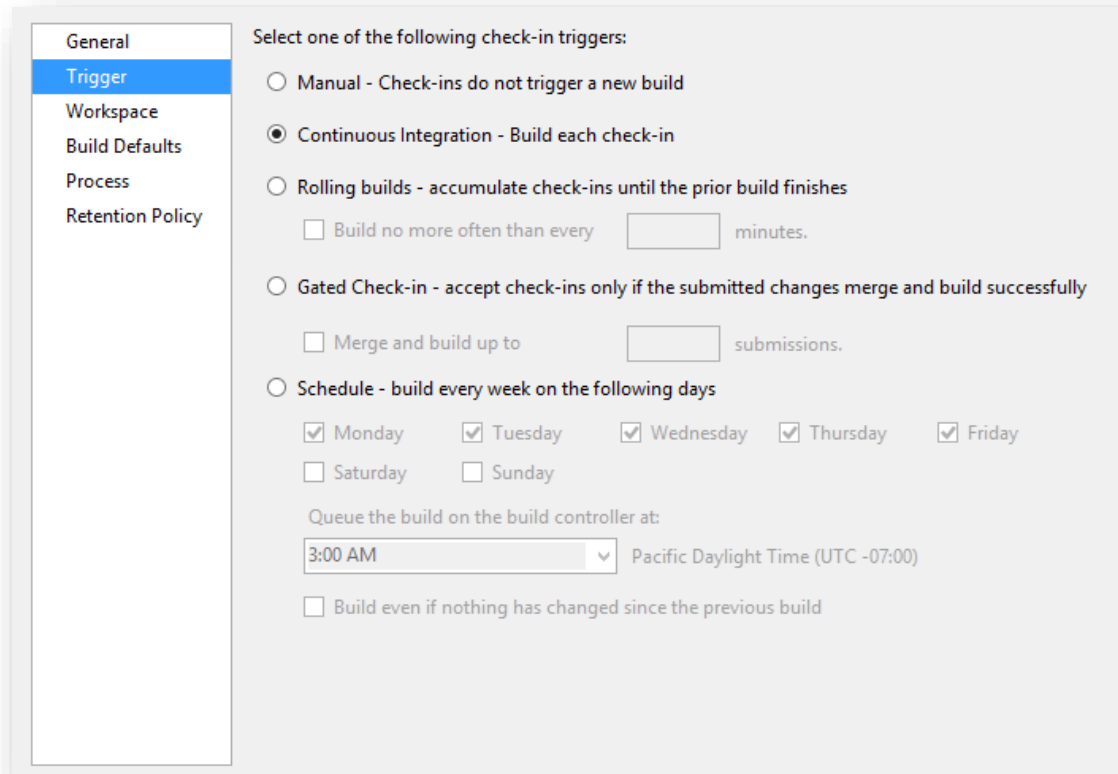
[Product Backlog Item 42](#), Increase Automated Test Coverage
Current state is Committed. Currently assigned to Neno Loje

[Task 43](#), Add unit tests for business layer
Current state is Done. Currently assigned to Neno Loje

Impacted Tests

No tests were impacted

Continuous Integration




The screenshot shows a configuration window for a build system. On the left is a sidebar with a menu containing: General, Trigger (highlighted in blue), Workspace, Build Defaults, Process, and Retention Policy. The main area is titled "Select one of the following check-in triggers:" and contains several radio button options:

- Manual - Check-ins do not trigger a new build
- Continuous Integration - Build each check-in
- Rolling builds - accumulate check-ins until the prior build finishes
 - Build no more often than every minutes.
- Gated Check-in - accept check-ins only if the submitted changes merge and build successfully
 - Merge and build up to submissions.
- Schedule - build every week on the following days
 - Monday Tuesday Wednesday Thursday Friday
 - Saturday Sunday

Below these options, there is a section "Queue the build on the build controller at:" with a dropdown menu showing "3:00 AM" and "Pacific Daylight Time (UTC -07:00)". At the bottom, there is a checkbox labeled "Build even if nothing has changed since the previous build" which is currently unchecked.


Continuous Integration (II) – Gated Check-In


Gated Check-in



You need to build your changes for validation be committed to the Team Foundation Server

Your changes have been shelved and will be built as follows:


Shelveset:  **Gated Check**

Build definition:  **Gated Check**

[Show options](#)

If your changes build...

Gated Check




Gated Check-in Rejected

[PetShop_Main_CI_20120616.2 - Failed](#)

Submitted by Neno Loje on 6/16/2012


You may want to unshelve your changes

Build WinCalc_20120616.12



WinCalc_20120616.12 - Check-in rejected

View Summary | View Log - Open Drop Folder | Diagnostics ▾ | <No Quality Assigned> ▾ | Actions ▾



Rejected gated check-in by Neno Loje in WinCalc (Calculator)
Ran for 29 seconds (SERVERTOGO - Controller), completed 72 seconds ago

Latest Activity

Build last modified by NETWORK SERVICE 72 seconds ago.

Request Summary

✘ Request 23, requested by Neno Loje 103 seconds ago, Check-in rejected

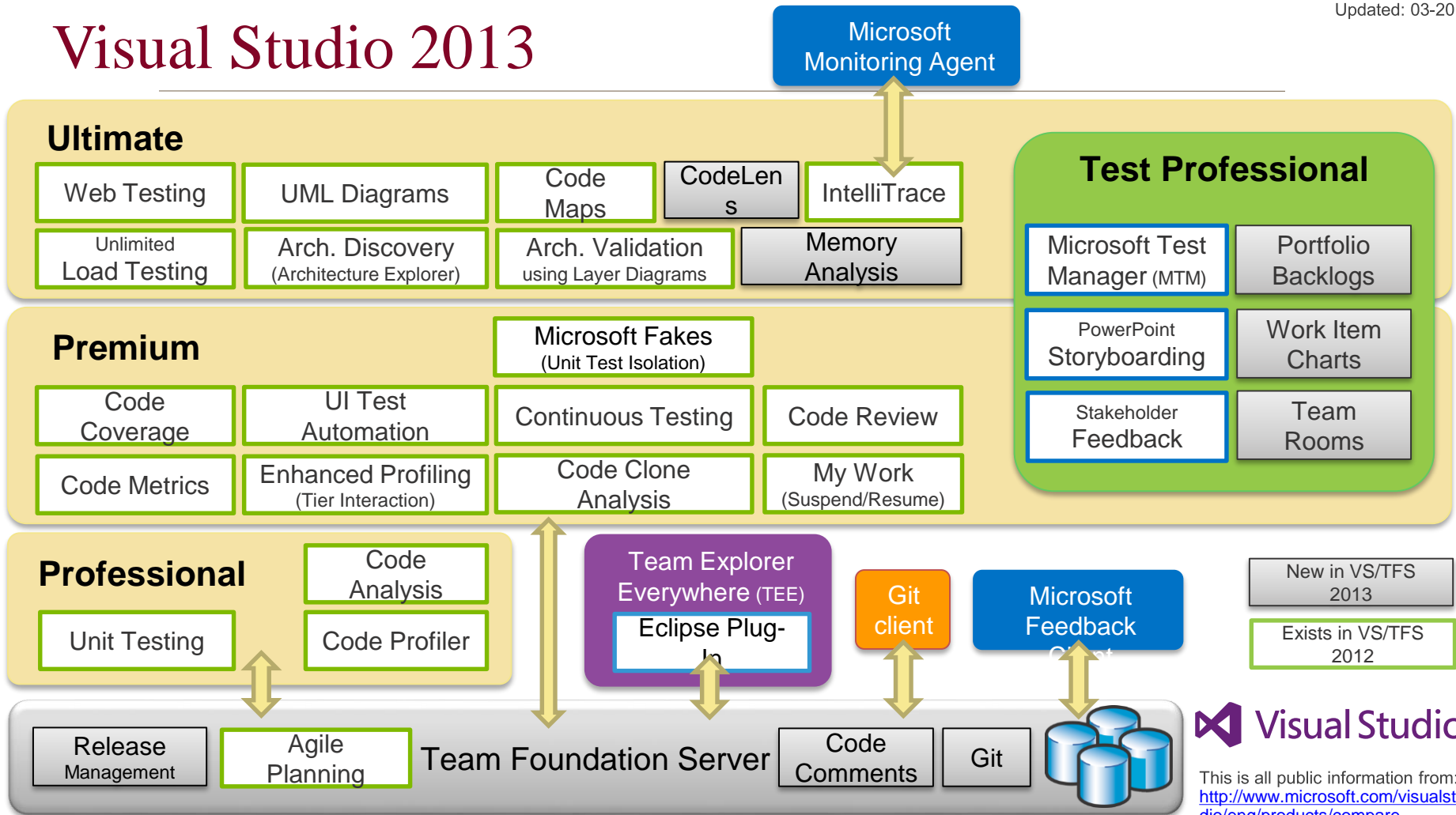
Summary

Debug | Any CPU

0 error(s), 0 warning(s)

- ▶ \$/Calculator/Main/src/WinCalc/WinCalc.sln compiled
- ▲ ✘ 1 test run completed - 66% pass rate
 - ▶ ✘ SERVERTOGO\$@SERVERTOGO 2012-06-16 20:34:24_Any CPU_Debug, 2 of 3 test(s) passed
- ▶ 2 binaries instrumented - 13% of all code blocks covered

Visual Studio 2013



For informational purposes only. No guarantee for correctness. All Trademarks owned by Microsoft Corp. Slide: © Neno Loje, www.teamsystempro.com, All rights reserved.



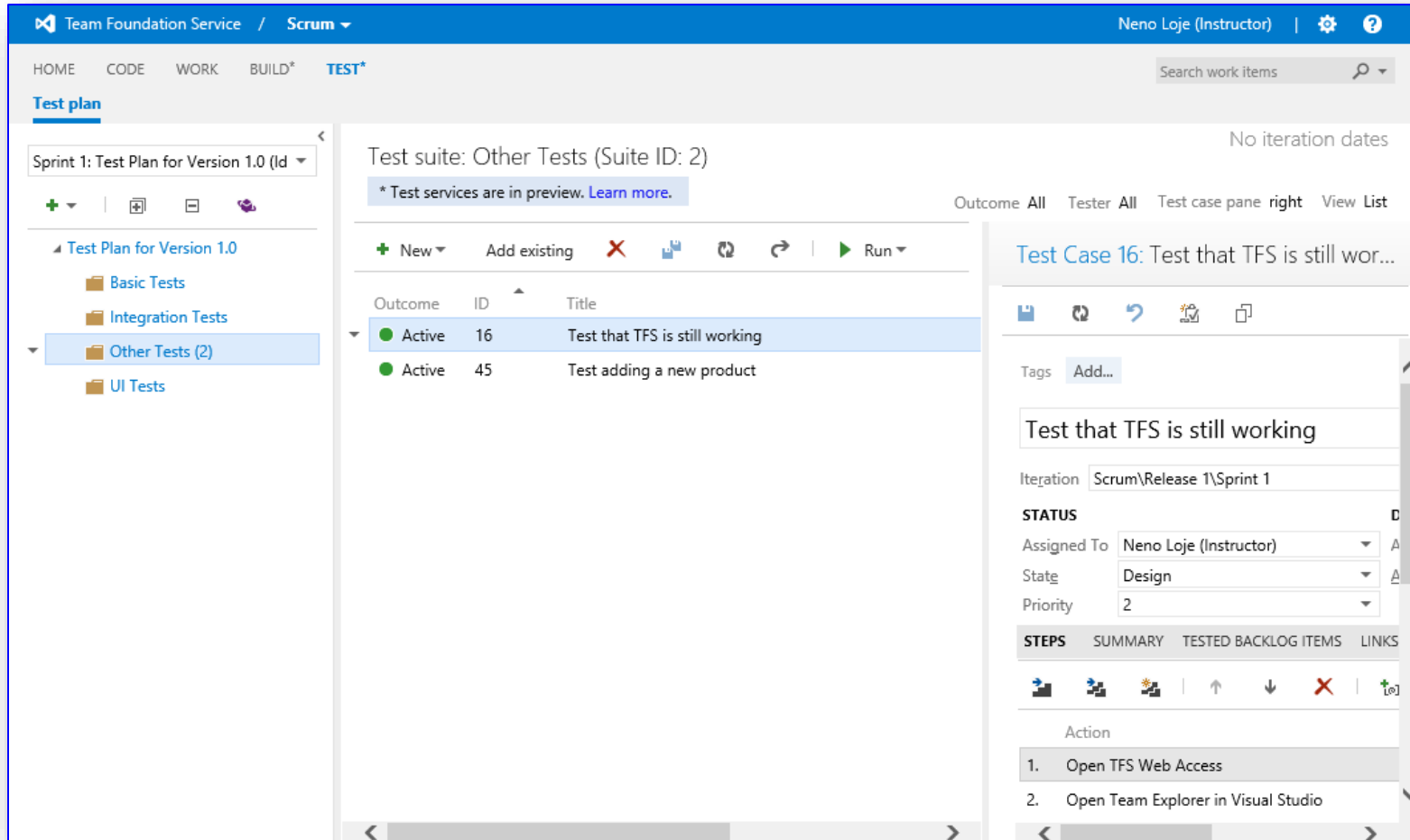
This is all public information from: <http://www.microsoft.com/visualstudio/eng/products/compare>

Web-based Test Case Management

Test Pro

Premium

Ultimate



The screenshot displays the Microsoft Test Manager web interface. The top navigation bar includes 'Team Foundation Service / Scrum' and the user 'Neno Loje (Instructor)'. The main area is titled 'Test suite: Other Tests (Suite ID: 2)'. A table lists test cases:

Outcome	ID	Title
Active	16	Test that TFS is still working
Active	45	Test adding a new product

The right-hand pane shows details for 'Test Case 16: Test that TFS is still wor...'. It includes fields for 'Assigned To' (Neno Loje (Instructor)), 'State' (Design), and 'Priority' (2). Below these are tabs for 'STEPS', 'SUMMARY', 'TESTED BACKLOG ITEMS', and 'LINKS'. The 'STEPS' tab is active, showing a list of actions:

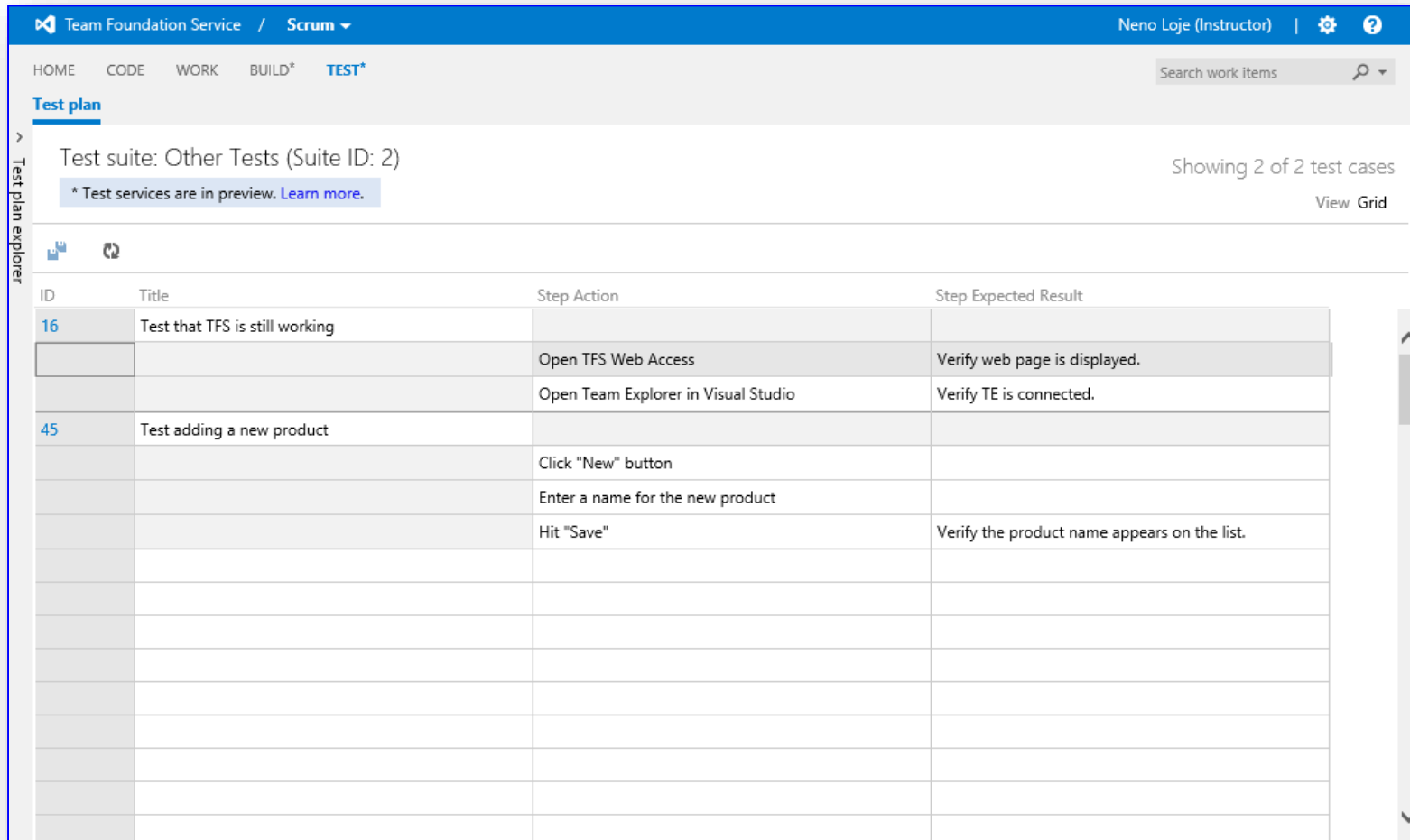
- Open TFS Web Access
- Open Team Explorer in Visual Studio

Web-based Test Case Management

Test Pro

Premium

Ultimate



Team Foundation Service / Scrum

Neno Loje (Instructor)

HOME CODE WORK BUILD* TEST*

Search work items

Test plan

Test suite: Other Tests (Suite ID: 2)

Showing 2 of 2 test cases

* Test services are in preview. [Learn more.](#)

View Grid

ID	Title	Step Action	Step Expected Result
16	Test that TFS is still working		
		Open TFS Web Access	Verify web page is displayed.
		Open Team Explorer in Visual Studio	Verify TE is connected.
45	Test adding a new product		
		Click "New" button	
		Enter a name for the new product	
		Hit "Save"	Verify the product name appears on the list.

The screenshot displays a software testing application interface. On the left, a sidebar contains a 'Paused' dialog box with the text 'Close the dialog window to proceed.' Below it, there are buttons for 'create bug', 'Create test case', and 'Add screenshot'. The main area is titled 'New Bug*' and contains several sections:

- STATUS**: Includes dropdowns for 'Assigned To', 'State' (set to 'Active'), and 'Reason' (set to 'New').
- CLASSIFICATION**: Includes dropdowns for 'Area' (set to 'Tailspin Toys') and 'Iteration' (set to 'Tailspin Toys\Iteration 2').
- PLANNING**: Includes dropdowns for 'Stack Rank', 'Priority' (set to '2'), and 'Severity' (set to '3 - Medium').
- DETAILS**: A tabbed interface with sub-tabs for 'SYSTEM INFO', 'TEST CASES', 'ALL LINKS', and 'ATTACHMENTS'. It contains a 'Steps to Reproduce' section with a rich text editor and a 'History' section with a text area.

The 'Steps to Reproduce' section includes the following text: 'The 8 steps you performed are listed below. To change which steps to include in the bug, click [Change steps](#)'. Below this, there are two numbered steps:

1. Click 'Tailspin Toys' button in the window 'Blank Page - Windows Internet Explorer'. This step is accompanied by a screenshot of a browser window showing a 'Portal' with a 'Tailspin Toys' button. A red crosshair cursor is positioned over the button.
2. Click 'Rockets' link. This step is accompanied by a screenshot of a 'ROCKETS' link with a red rocket image and a 'Browse all rocket' button. A red crosshair cursor is positioned over the link.

At the bottom of the 'New Bug*' window, there are three buttons: 'Save and create test', 'Save and close', and 'Close'. The overall interface is dark-themed with a blue sidebar.

Creating rich Bugs from your test session

New Bug*

Title: <Required>

STATUS

Assigned To:

State:

Reason:

Resolved Reason:

PLANNING

Stack Rank:

DETAILS SYSTEM INFO TEST C...

Steps to Reproduce:

Segoe UI

The 8 steps you performed are listed below. Select the steps to include in the bug report.

Observations

Cannot enter first name!

1. Click 'Tailspin Toys' button in Page - Windows Internet Explorer
2. Click 'Rockets' link

Change steps

Click and drag mouse to select steps

3 items selected

- Click 'View Plane' link
- Click button
- Type '2' in 'Quantity' text box

Click 'Checkout' button

Select Don't Select

Save and create test Save and close Close

Paused
Close the dialog window to proceed.

Paused 00:01:00

Choose relevant UI actions for the bug report

New Test Case*

Title: <Required>

STATUS

Assigned To: Brian Keller
 State: Design
 Priority: 2
 Automation Status: Not Automated

CLASSIFICATION

Area: Tailspin Toys
 Iteration: Tailspin Toys\Iteration 2

STEPS SUMMARY TESTED USER STORIES ALL LINKS ATTACHMENTS ASSOCIATED AUTOMATION

Change steps Insert step Insert shared steps Insert parameter

Action	Expected Result
1. Click 'Tailspin Toys' button in the window 'Blank Page - Windows Internet Explorer'	
2. Click 'Rockets' link	
3. Click 'Paper Airplanes' link	
4. Click 'View Plane' link	
5. Click button	
6. Type '2' in 'Quantity' text box	
7. Click 'Checkout' button	
8. Type 'Neno' in 'FirstName' text box	
<i>Click here to add a step</i>	

Parameter Values

Delete iteration Rename parameter Delete parameter

Save and close Save Close

Optionally create test case from your findings

ReleaseDefaultTemplate.11.1.xaml

- General
- Trigger
- Source Settings
- Build Defaults
- Process
- Retention Policy

Team Foundation Build uses a build process template defined by a Windows Workflow (XAML) file. The behavior of this template can be customized by setting the build process parameters provided by the selected template.

Build process template:
ReleaseDefaultTemplate.11.1.xaml ⬆ Hide details

Build process file (Windows Workflow XAML):

ReleaseDefaultTemplate.11.1.xaml

Default Template (DefaultTemplate.11.1.xaml)

Upgrade Template (UpgradeTemplate.xaml)

LabDefaultTemplate.11.xaml

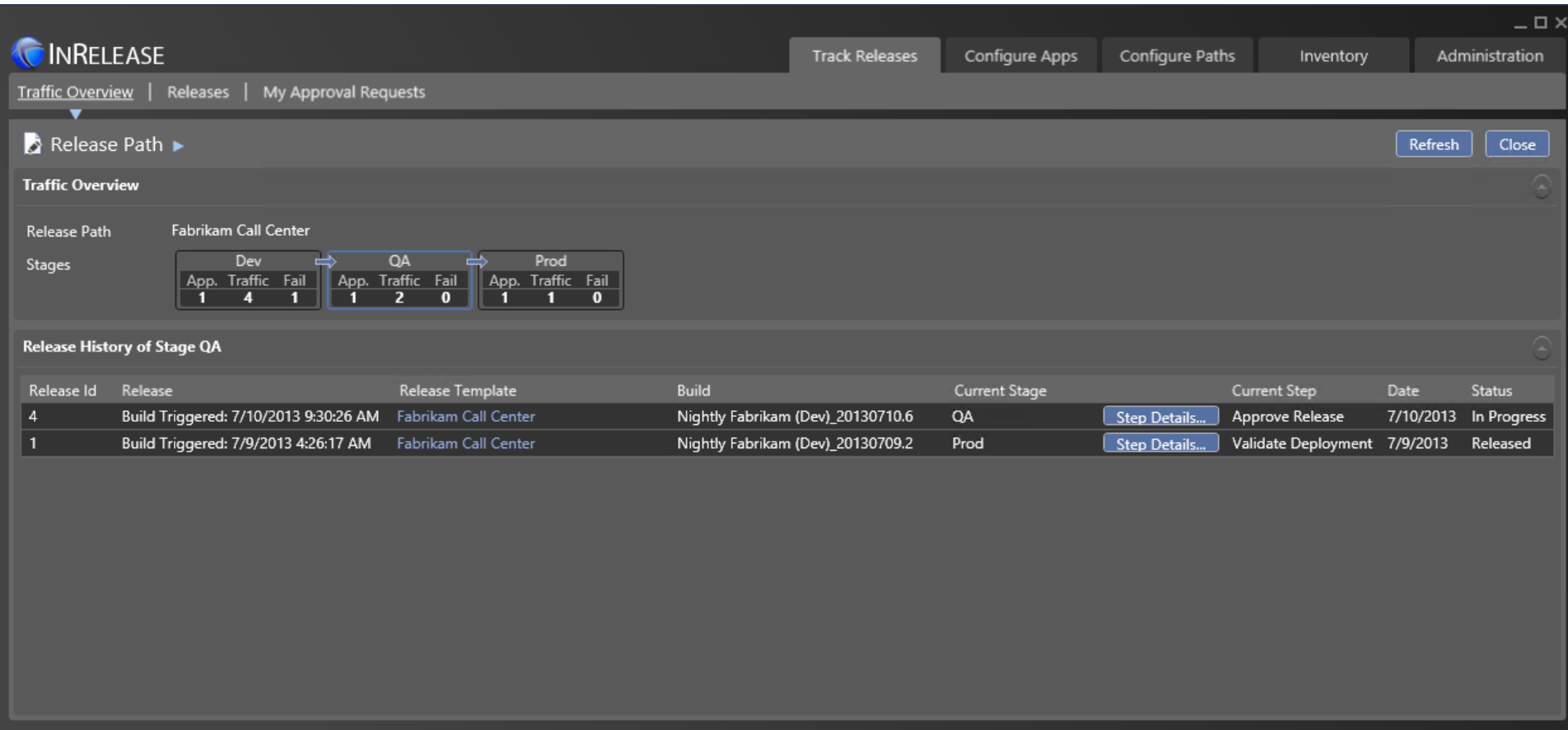
ReleaseDefaultTemplate.11.1.xaml

TfvcTemplate.12.xaml

Build process parameters:

1. Required	
▶ Items to Build	Build 5 projects with default platforms and configurations
2. Basic	
▶ Automated Tests	Run tests in test sources matching ***test*.dll , Test Case Filter: 'Name!=CodedUITe
Build Number Format	\$(BuildDefinitionName)_\$(Date:yyyyMMdd)\$(Rev:.r)
Clean Workspace	All
Logging Verbosity	Normal
Perform Code Analysis	AsConfigured
▶ Source And Symbol Server Settings	Index Sources
3. Advanced	
4. Release	
Configuration to Release	
Release Build	True
Release Target Stage	

Release Management for Visual Studio



INRELEASE | Traffic Overview | Releases | My Approval Requests

Track Releases | Configure Apps | Configure Paths | Inventory | Administration

Release Path ▶ Refresh Close

Traffic Overview

Release Path: Fabrikam Call Center

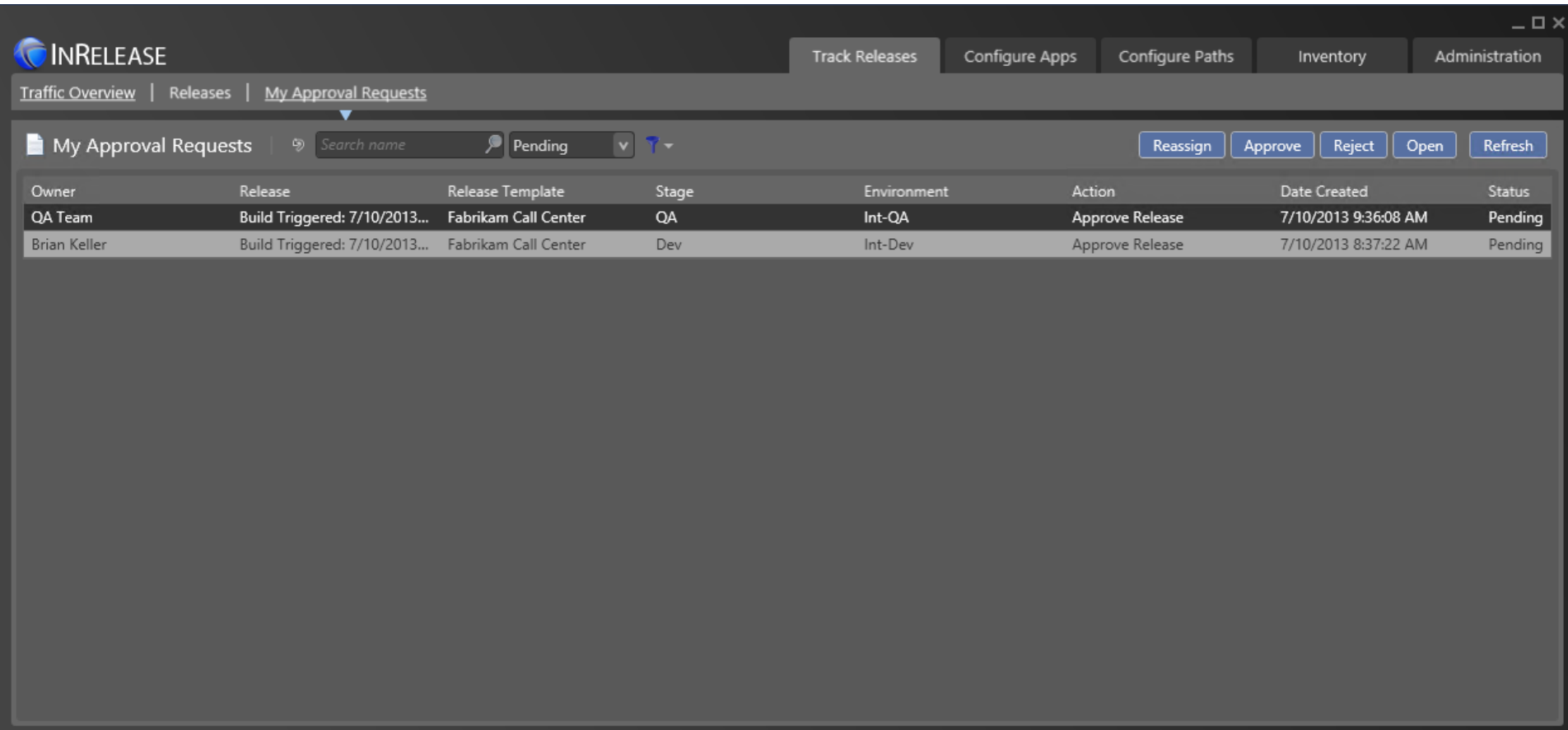
Stages:

Dev			QA			Prod		
App.	Traffic	Fail	App.	Traffic	Fail	App.	Traffic	Fail
1	4	1	1	2	0	1	1	0

Release History of Stage QA

Release Id	Release	Release Template	Build	Current Stage	Current Step	Date	Status
4	Build Triggered: 7/10/2013 9:30:26 AM	Fabrikam Call Center	Nightly Fabrikam (Dev)_20130710.6	QA	Approve Release	7/10/2013	In Progress
1	Build Triggered: 7/9/2013 4:26:17 AM	Fabrikam Call Center	Nightly Fabrikam (Dev)_20130709.2	Prod	Validate Deployment	7/9/2013	Released

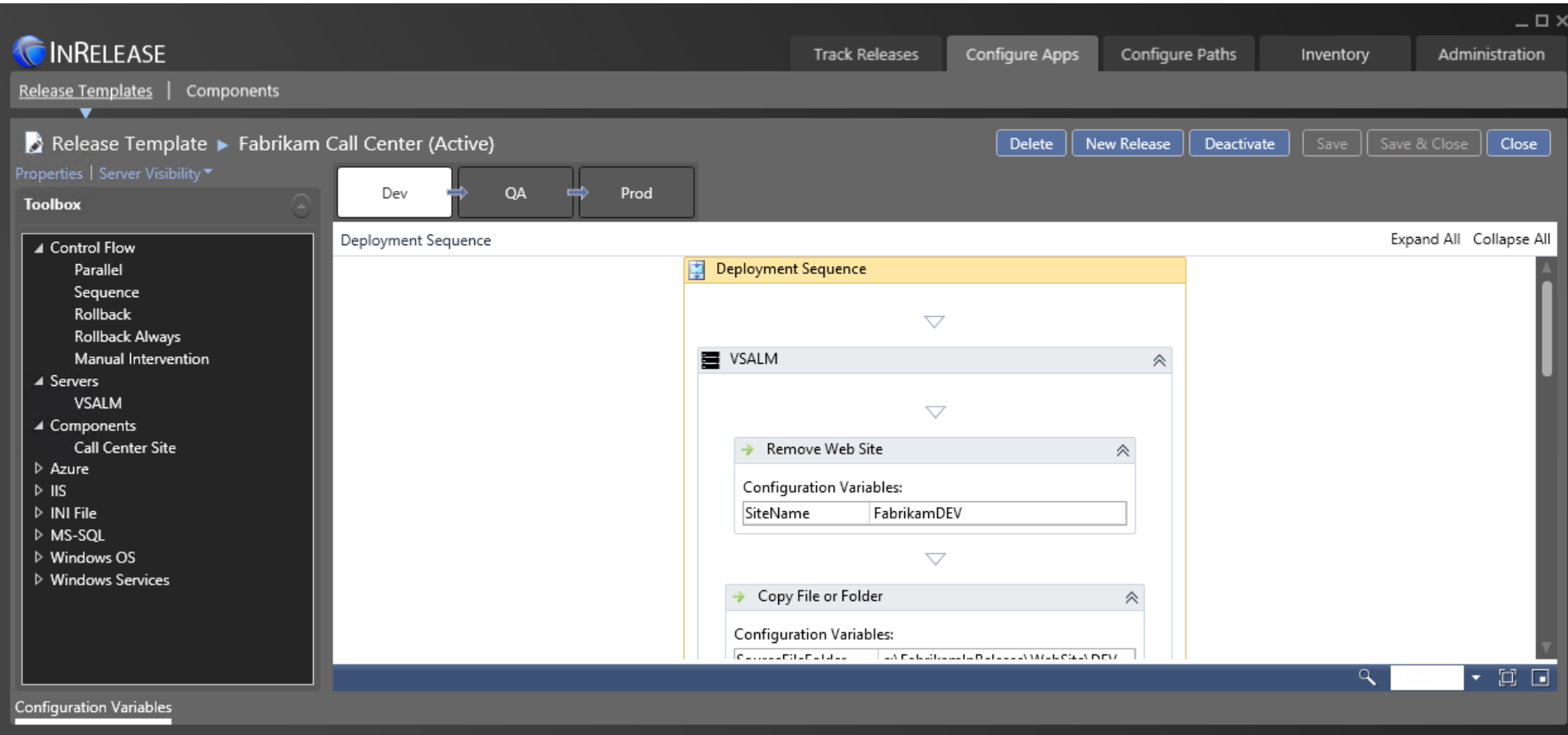
Release Management for Visual Studio



The screenshot shows the INRELEASE application interface. At the top, there are navigation tabs: "Track Releases", "Configure Apps", "Configure Paths", "Inventory", and "Administration". Below these, there are sub-tabs: "Traffic Overview", "Releases", and "My Approval Requests". The "My Approval Requests" sub-tab is active, showing a search bar with "Search name", a filter dropdown set to "Pending", and several action buttons: "Reassign", "Approve", "Reject", "Open", and "Refresh".

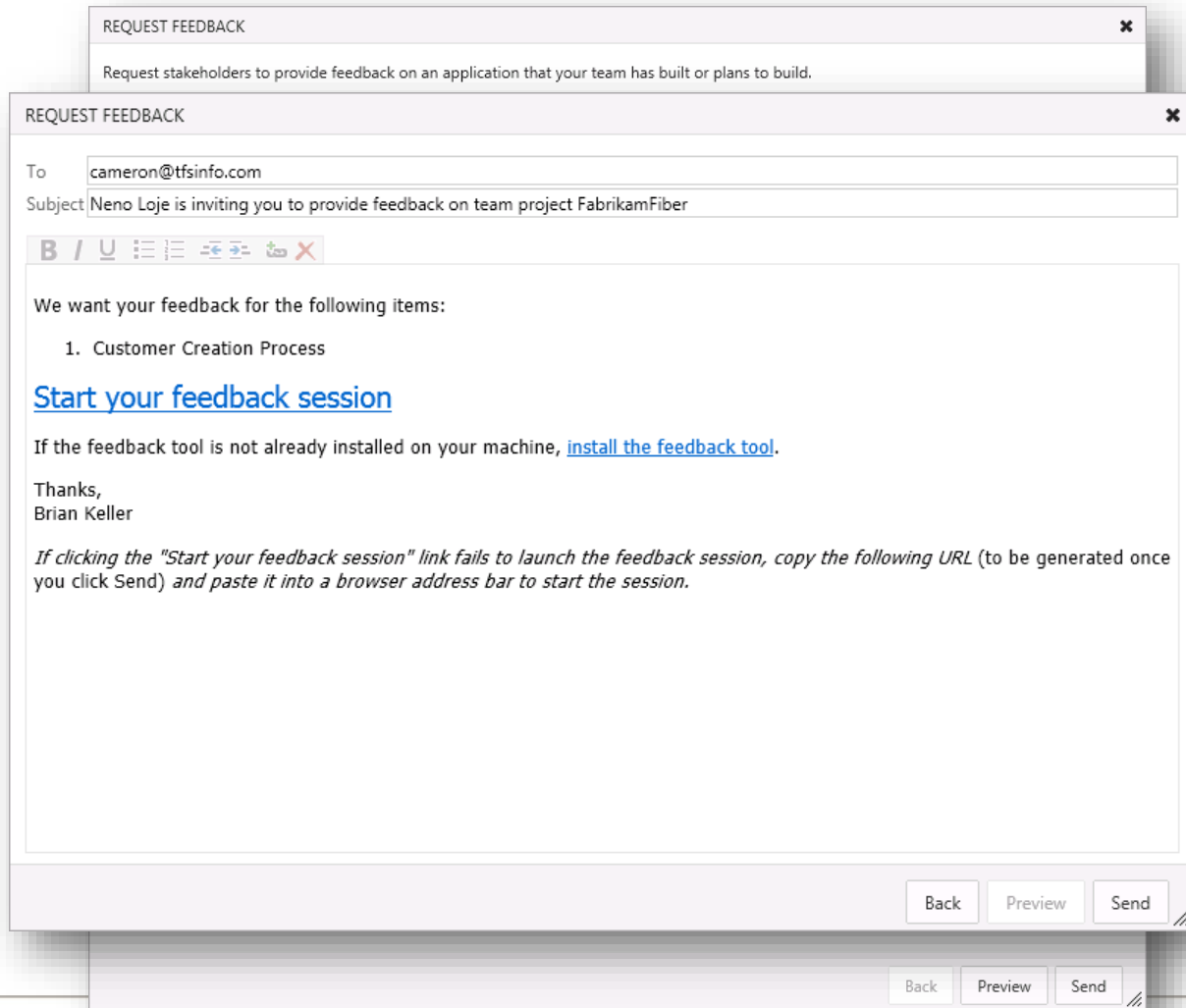
Owner	Release	Release Template	Stage	Environment	Action	Date Created	Status
QA Team	Build Triggered: 7/10/2013...	Fabrikam Call Center	QA	Int-QA	Approve Release	7/10/2013 9:36:08 AM	Pending
Brian Keller	Build Triggered: 7/10/2013...	Fabrikam Call Center	Dev	Int-Dev	Approve Release	7/10/2013 8:37:22 AM	Pending

Release Management for Visual Studio



The screenshot displays the INRELEASE application interface. At the top, there are navigation tabs: Track Releases, Configure Apps, Configure Paths, Inventory, and Administration. Below these, the current configuration is for a 'Release Template' named 'Fabrikam Call Center (Active)'. A deployment sequence diagram shows a flow from 'Dev' to 'QA' to 'Prod'. The main workspace shows a 'Deployment Sequence' with a task named 'Remove Web Site'. This task has a configuration variable 'SiteName' set to 'FabrikamDEV'. Below it, another task 'Copy File or Folder' is partially visible. On the left, a 'Toolbox' lists various deployment tasks such as 'Control Flow', 'Servers', and 'Components'. The bottom status bar shows 'Configuration Variables'.

Feedback anfordern ("Request Feedback")



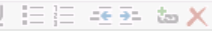
REQUEST FEEDBACK

Request stakeholders to provide feedback on an application that your team has built or plans to build.

REQUEST FEEDBACK

To: cameron@tfsinfo.com

Subject: Neno Loje is inviting you to provide feedback on team project FabrikamFiber

B / U | 

We want your feedback for the following items:

1. Customer Creation Process

[Start your feedback session](#)

If the feedback tool is not already installed on your machine, [install the feedback tool](#).

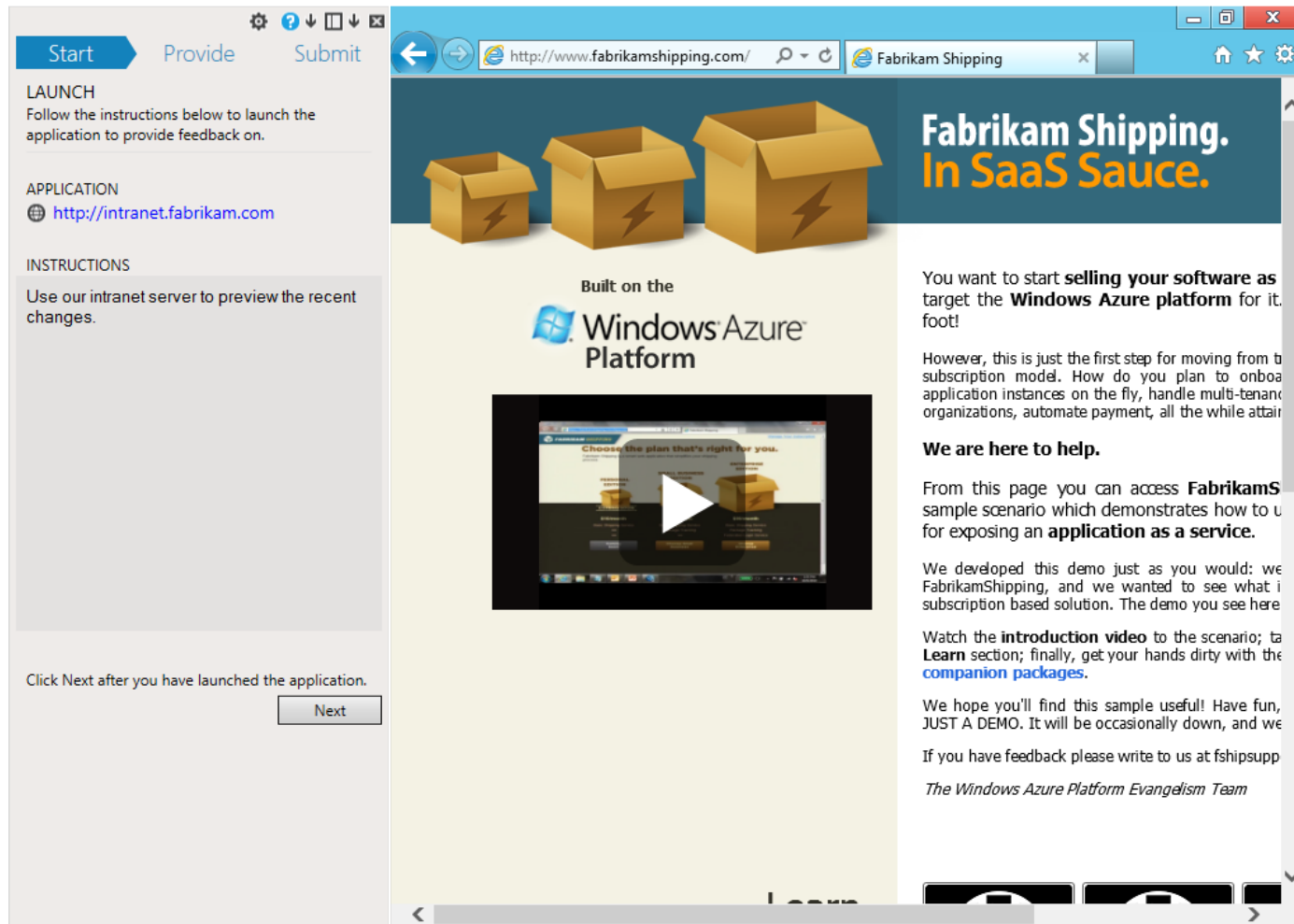
Thanks,
Brian Keller

If clicking the "Start your feedback session" link fails to launch the feedback session, copy the following URL (to be generated once you click Send) and paste it into a browser address bar to start the session.

Back Preview Send

Back Preview Send

Feedback geben (Microsoft Feedback Client)



The screenshot shows the Microsoft Feedback Client interface. On the left, there is a sidebar with the following sections:

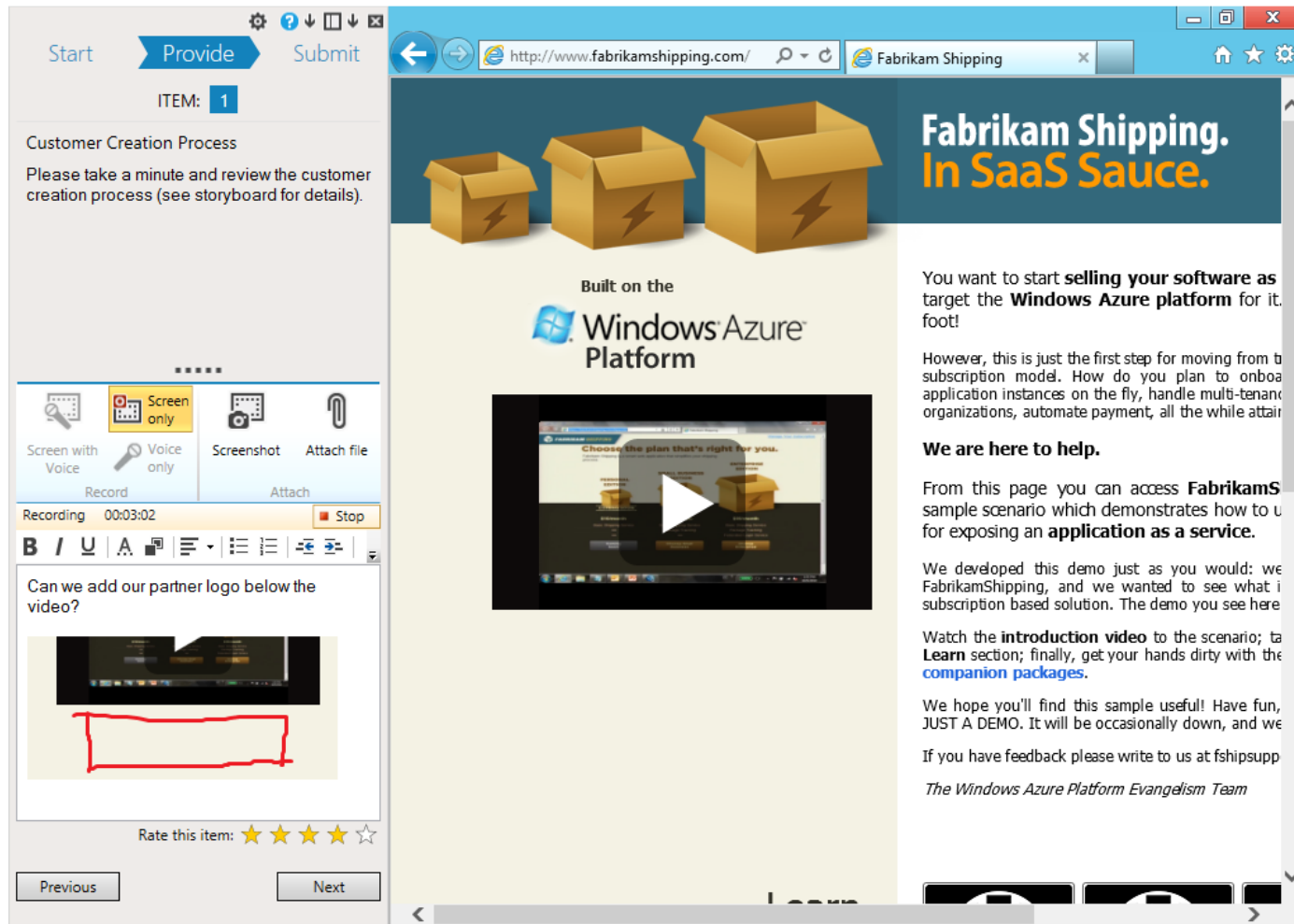
- Start** (highlighted), **Provide**, **Submit**
- LAUNCH**: Follow the instructions below to launch the application to provide feedback on.
- APPLICATION**: <http://intranet.fabrikam.com>
- INSTRUCTIONS**: Use our intranet server to preview the recent changes.

At the bottom of the sidebar, there is a text prompt: "Click Next after you have launched the application." and a **Next** button.

The main area displays a preview of the **Fabrikam Shipping** website. The browser address bar shows <http://www.fabrikamshipping.com/>. The website content includes:

- Three cardboard boxes with lightning bolts.
- Text: **Fabrikam Shipping. In SaaS Sauce.**
- Text: **Built on the Windows Azure Platform**
- A video player showing a "Choose the plan that's right for you." screen.
- Text: "You want to start **selling your software as a service** target the **Windows Azure platform** for it. foot!"
- Text: "However, this is just the first step for moving from a traditional software model to a subscription model. How do you plan to onboard new application instances on the fly, handle multi-tenant organizations, automate payment, all the while attain..."
- Section: **We are here to help.**
- Text: "From this page you can access **FabrikamSaaS** sample scenario which demonstrates how to use Windows Azure for exposing an **application as a service**."
- Text: "We developed this demo just as you would: we built FabrikamShipping, and we wanted to see what it would be like to build a subscription based solution. The demo you see here..."
- Text: "Watch the **introduction video** to the scenario; take a look at the **Learn** section; finally, get your hands dirty with the **companion packages**."
- Text: "We hope you'll find this sample useful! Have fun, JUST A DEMO. It will be occasionally down, and we will be back soon."
- Text: "If you have feedback please write to us at fshisupp@microsoft.com"
- Text: *The Windows Azure Platform Evangelism Team*

Feedback geben (Microsoft Feedback Client)



Start **Provide** Submit

ITEM: 1

Customer Creation Process

Please take a minute and review the customer creation process (see storyboard for details).

Screen with Voice | Screen only | Voice only | Screenshot | Attach file

Recording 00:03:02 [Stop]

Can we add our partner logo below the video?

Rate this item: ★★★★★

Previous Next

http://www.fabrikamshipping.com/ Fabrikam Shipping

Fabrikam Shipping. In SaaS Sauce.

Built on the **Windows Azure Platform**

You want to start **selling your software as a service** target the **Windows Azure platform** for it. In fact, you can target the **Windows Azure platform** for it. In fact, you can target the **Windows Azure platform** for it.

However, this is just the first step for moving from a traditional software model to a subscription model. How do you plan to onboard new application instances on the fly, handle multi-tenant organizations, automate payment, all the while maintaining high availability?

We are here to help.

From this page you can access **FabrikamS** sample scenario which demonstrates how to use the **Windows Azure Platform** for exposing an **application as a service**.

We developed this demo just as you would: we built FabrikamShipping, and we wanted to see what it would be like to build a subscription based solution. The demo you see here is a sample scenario which demonstrates how to use the **Windows Azure Platform** for exposing an **application as a service**.

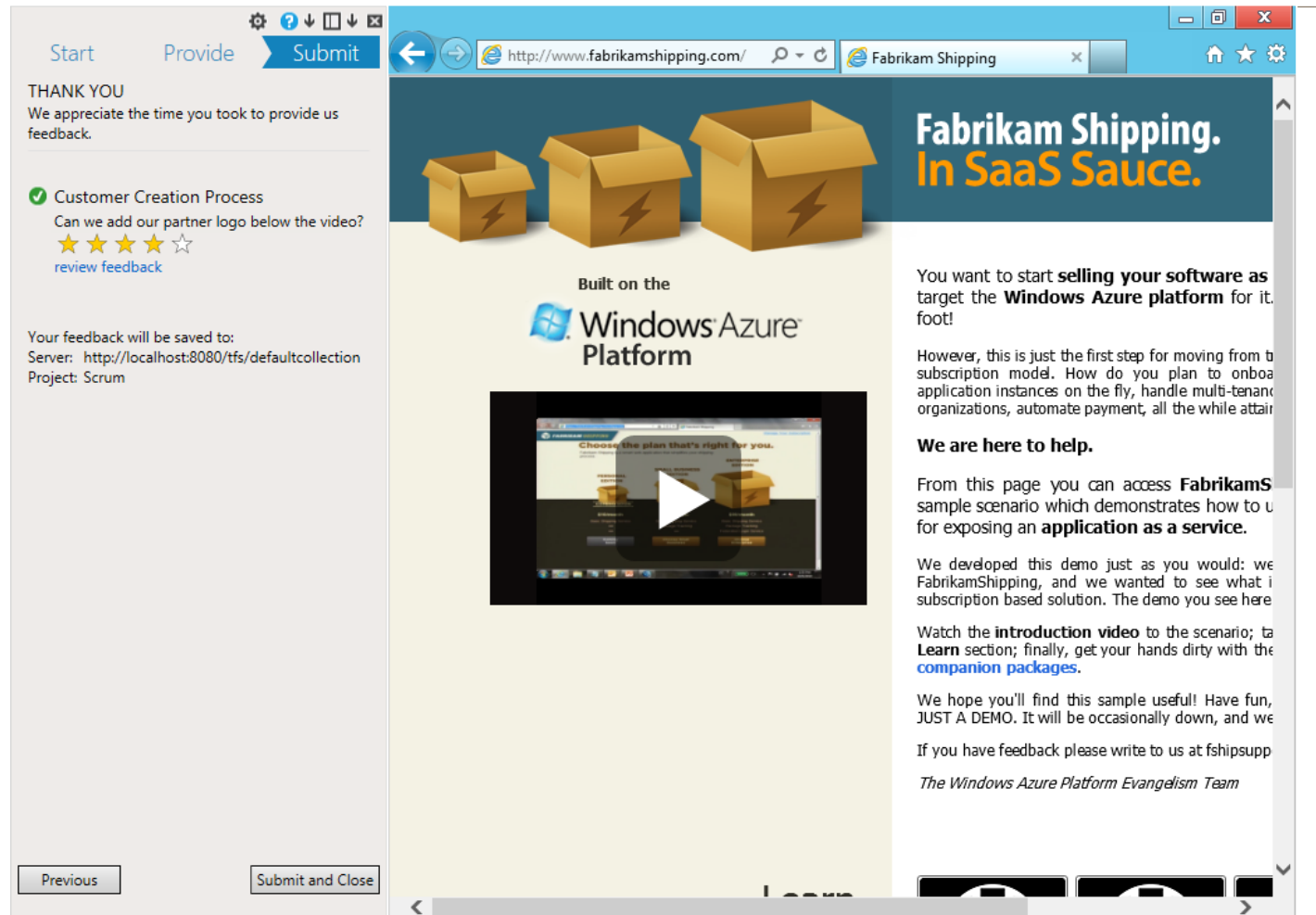
Watch the **introduction video** to the scenario; take a look at the **Learn** section; finally, get your hands dirty with the **companion packages**.

We hope you'll find this sample useful! Have fun, JUST A DEMO. It will be occasionally down, and we will be back soon.

If you have feedback please write to us at fshisupp@microsoft.com

The Windows Azure Platform Evangelism Team

Feedback geben (Microsoft Feedback Client)



The screenshot shows the Microsoft Feedback Client interface. On the left, there is a feedback form with the following content:

- Buttons: Start, Provide, Submit
- THANK YOU: We appreciate the time you took to provide us feedback.
- Feedback Item:
 - ✓ Customer Creation Process
 - Can we add our partner logo below the video?
 - Rating: 4 stars (4 yellow stars, 1 grey star)
 - review feedback
- Your feedback will be saved to:
 - Server: http://localhost:8080/tfs/defaultcollection
 - Project: Scrum
- Buttons: Previous, Submit and Close

On the right, a browser window displays the website <http://www.fabrikamshipping.com/>. The website content includes:

- Header: Fabrikam Shipping. In SaaS Sauce.
- Image: Three cardboard boxes with lightning bolts.
- Text: Built on the Windows Azure Platform.
- Video: A video player showing a screenshot of the website with a play button.
- Main Text:

You want to start **selling your software as** target the **Windows Azure platform** for it. foot!

However, this is just the first step for moving from to subscription model. How do you plan to onboard application instances on the fly, handle multi-tenant organizations, automate payment, all the while attain

We are here to help.

From this page you can access **FabrikamS** sample scenario which demonstrates how to u for exposing an **application as a service**.

We developed this demo just as you would: we FabrikamShipping, and we wanted to see what i subscription based solution. The demo you see here

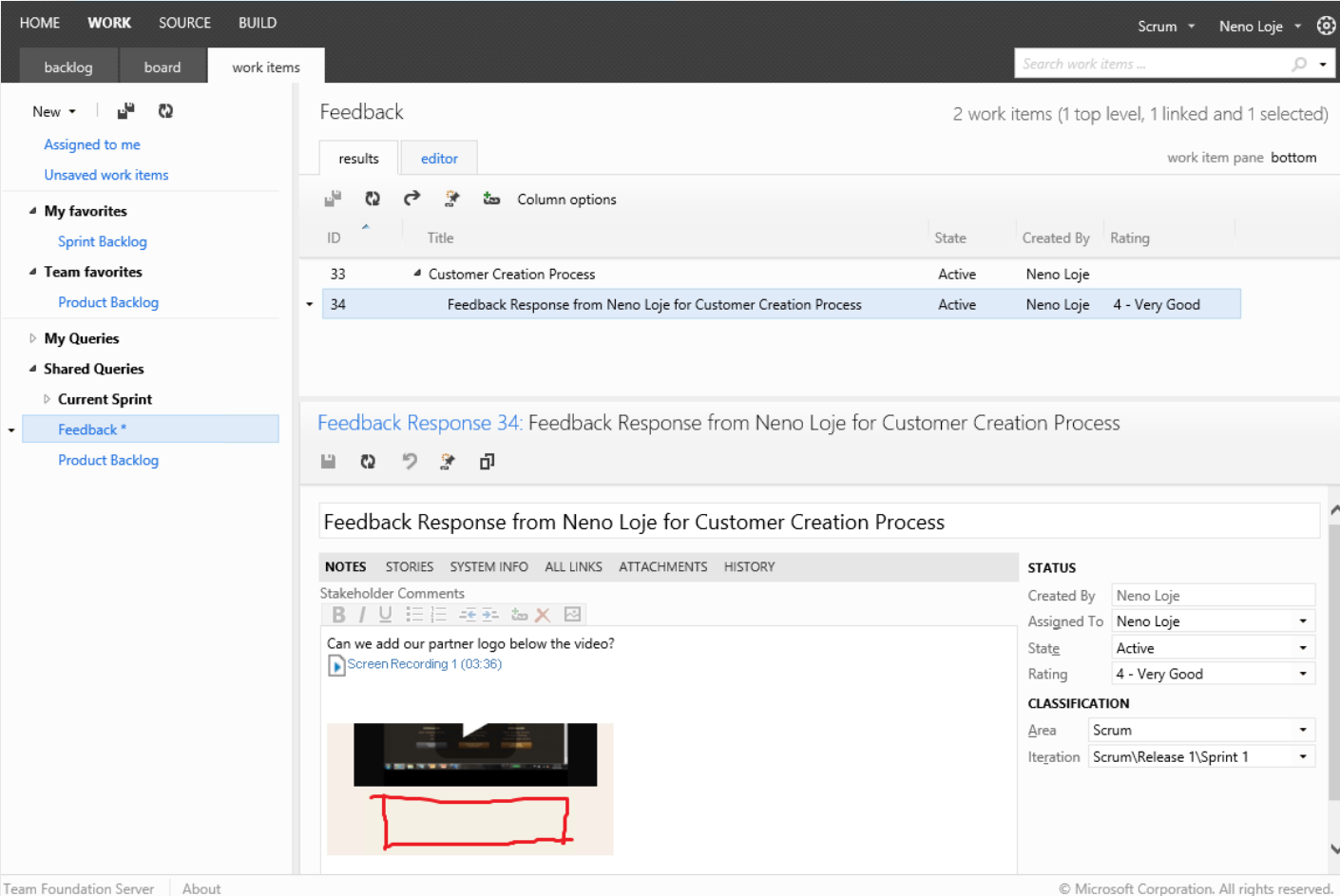
Watch the **introduction video** to the scenario; ta **Learn** section; finally, get your hands dirty with the **companion packages**.

We hope you'll find this sample useful! Have fun, JUST A DEMO. It will be occasionally down, and we

If you have feedback please write to us at fshippup

The Windows Azure Platform Evangelism Team

Feedback auswerten



The screenshot shows the Microsoft Azure DevOps interface. The top navigation bar includes HOME, WORK, SOURCE, and BUILD. The current view is 'work items' under the 'backlog' tab. A search bar is visible with the text 'Search work items ...'. The left sidebar shows a navigation menu with sections like 'My favorites', 'Team favorites', 'My Queries', and 'Shared Queries'. The 'Feedback' item is selected in the 'Current Sprint' section.

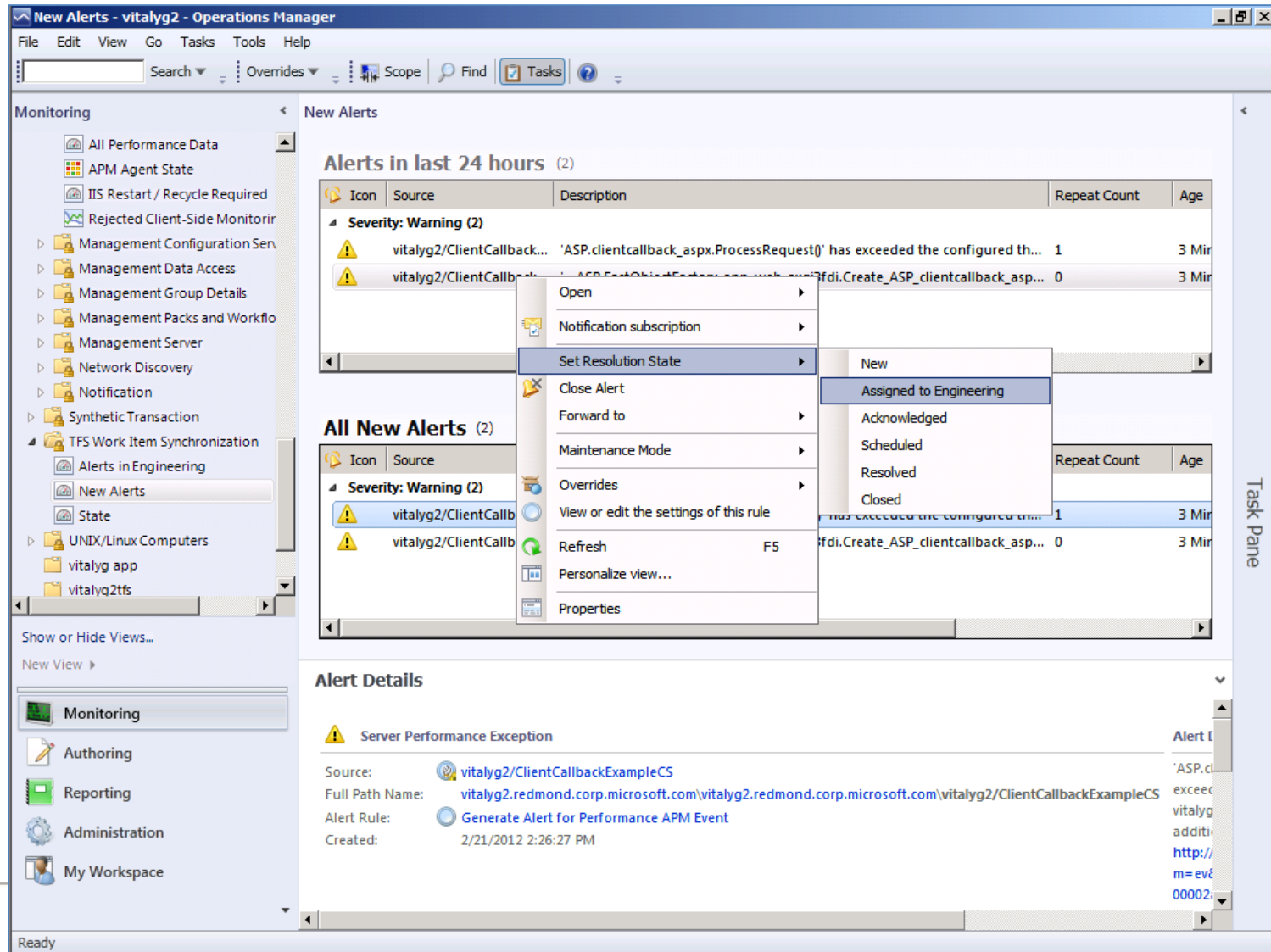
The main content area displays a table of work items. The selected item is:

ID	Title	State	Created By	Rating
33	Customer Creation Process	Active	Neno Loje	
34	Feedback Response from Neno Loje for Customer Creation Process	Active	Neno Loje	4 - Very Good

Below the table, the details for 'Feedback Response 34' are shown. The title is 'Feedback Response from Neno Loje for Customer Creation Process'. The 'NOTES' tab is active, showing a comment: 'Can we add our partner logo below the video?'. A video attachment 'ScreenRecording 1 (03:36)' is included. The video frame shows a dark interface with a red rectangle highlighting a specific area. The 'STATUS' section on the right shows: Created By: Neno Loje, Assigned To: Neno Loje, State: Active, Rating: 4 - Very Good. The 'CLASSIFICATION' section shows: Area: Scrum, Iteration: Scrum\Release 1\Sprint 1.

At the bottom of the interface, it says 'Team Foundation Server' and 'About' on the left, and '© Microsoft Corporation. All rights reserved.' on the right.

Integration mit MS System Center



The screenshot shows the Microsoft Operations Manager console window titled "New Alerts - vitalyq2 - Operations Manager". The interface includes a menu bar (File, Edit, View, Go, Tasks, Tools, Help), a search bar, and a left-hand navigation pane under "Monitoring".

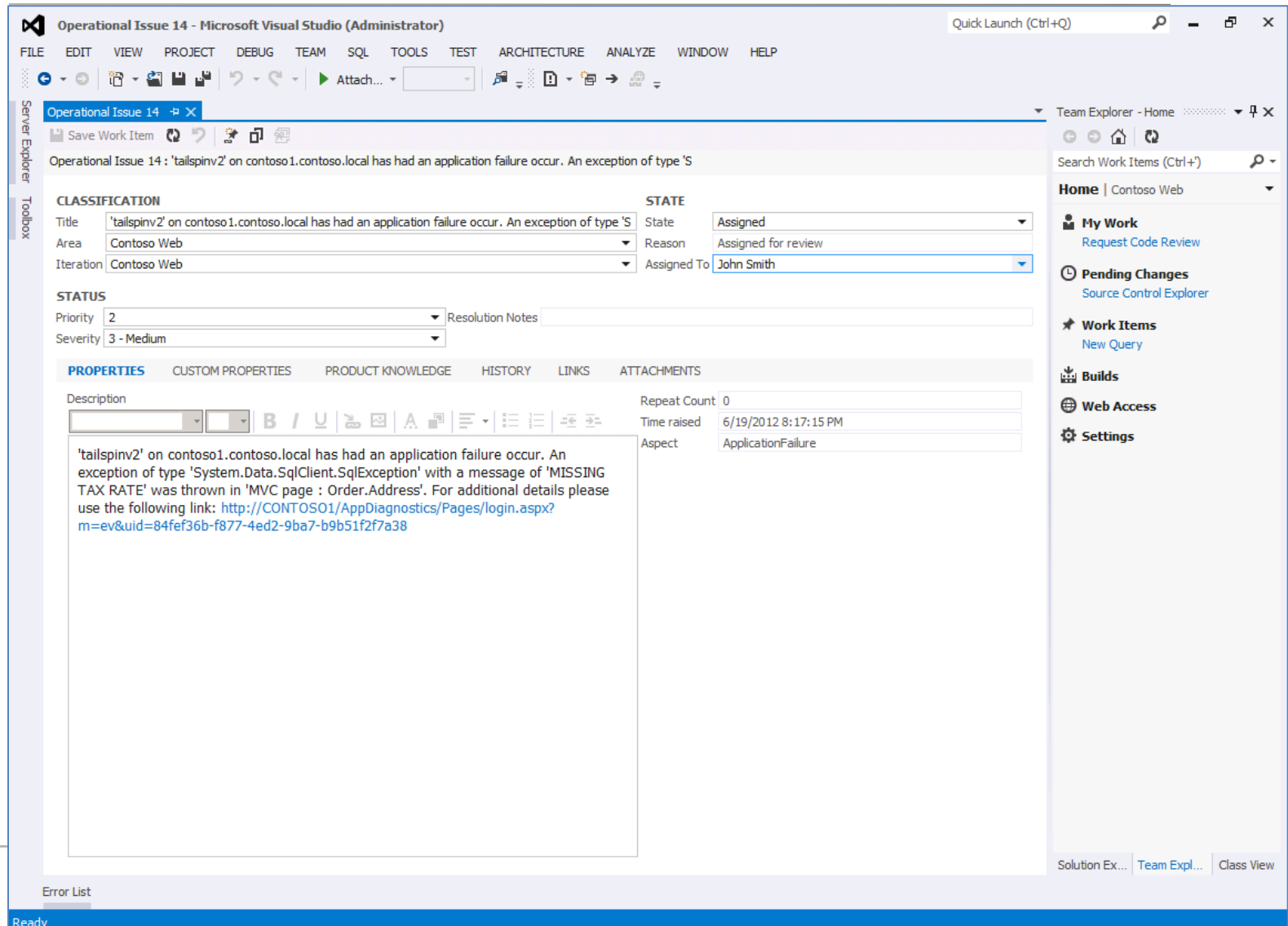
The main area displays "Alerts in last 24 hours (2)" and "All New Alerts (2)". A context menu is open over the alert list, showing options such as "Open", "Notification subscription", "Set Resolution State", "Close Alert", "Forward to", "Maintenance Mode", "Overrides", "View or edit the settings of this rule", "Refresh", "Personalize view...", and "Properties". The "Set Resolution State" sub-menu is expanded, showing options: "New", "Assigned to Engineering", "Acknowledged", "Scheduled", "Resolved", and "Closed".

The "Alert Details" section at the bottom shows the following information:

- Alert Details**
- Server Performance Exception**
- Source: vitalyq2/ClientCallbackExampleCS
- Full Path Name: vitalyq2.redmond.corp.microsoft.com/vitalyq2.redmond.corp.microsoft.com/vitalyq2/ClientCallbackExampleCS
- Alert Rule: Generate Alert for Performance APM Event
- Created: 2/21/2012 2:26:27 PM

The status bar at the bottom left indicates "Ready".

Integration mit MS System Center



Operational Issue 14 - Microsoft Visual Studio (Administrator)

FILE EDIT VIEW PROJECT DEBUG TEAM SQL TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Operational Issue 14 : 'tailspinv2' on contoso1.contoso.local has had an application failure occur. An exception of type 'S'

CLASSIFICATION

Title: 'tailspinv2' on contoso1.contoso.local has had an application failure occur. An exception of type 'S'

Area: Contoso Web

Iteration: Contoso Web

STATE

State: Assigned

Reason: Assigned for review

Assigned To: John Smith

STATUS

Priority: 2

Severity: 3 - Medium

Resolution Notes:

PROPERTIES CUSTOM PROPERTIES PRODUCT KNOWLEDGE HISTORY LINKS ATTACHMENTS

Description

'tailspinv2' on contoso1.contoso.local has had an application failure occur. An exception of type 'System.Data.SqlClient.SqlException' with a message of 'MISSING TAX RATE' was thrown in 'MVC page : Order.Address'. For additional details please use the following link: <http://CONTOSO1/AppDiagnostics/Pages/login.aspx?m=ev&uid=84fef36b-f877-4ed2-9ba7-b9b51f2f7a38>

Repeat Count: 0

Time raised: 6/19/2012 8:17:15 PM

Aspect: ApplicationFailure

Team Explorer - Home

Search Work Items (Ctrl+)

Home | Contoso Web

My Work

Request Code Review

Pending Changes

Source Control Explorer

Work Items

New Query

Builds

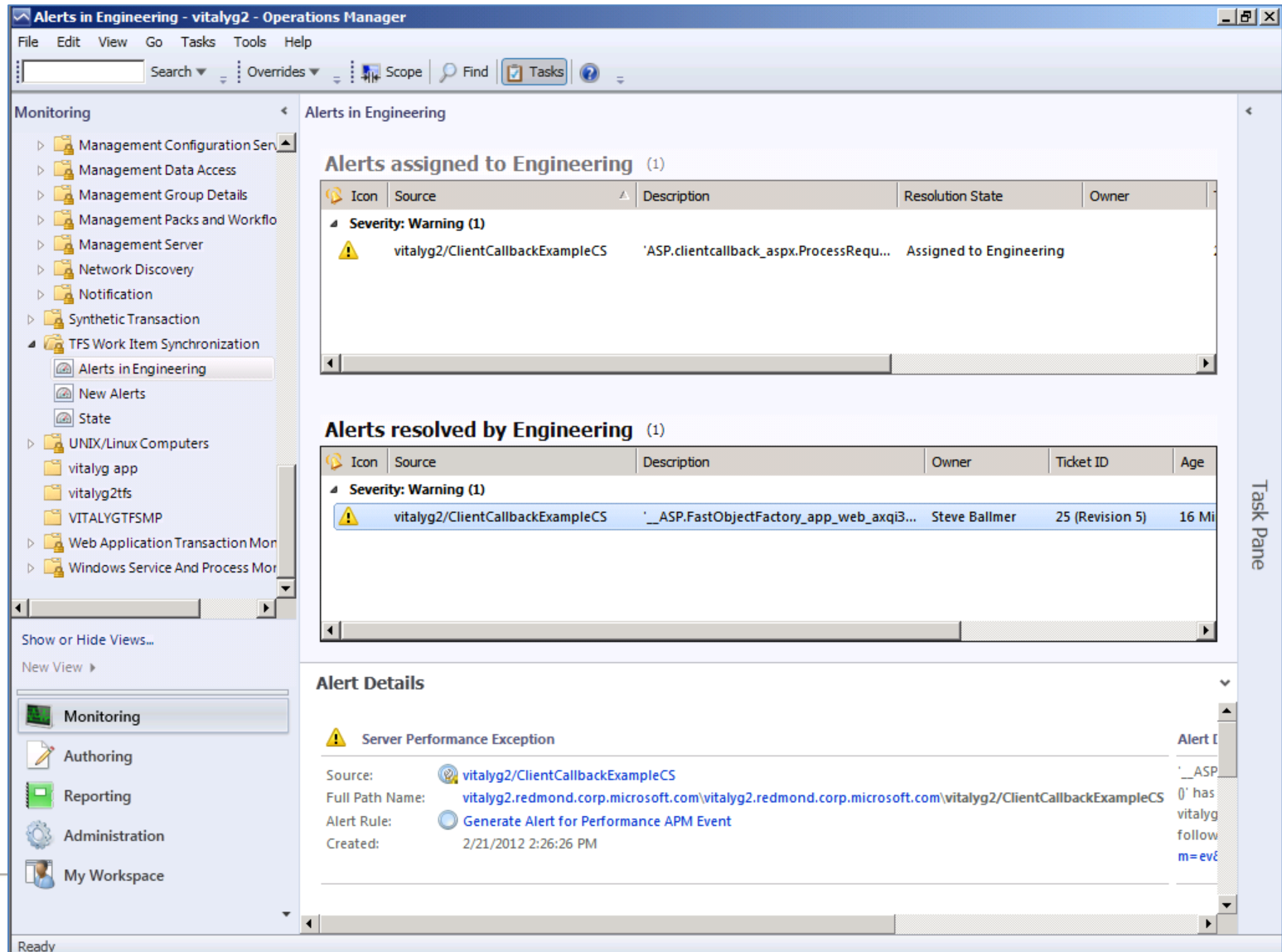
Web Access

Settings

Solution Ex... Team Expl... Class View

Ready

Integration mit MS System Center



Alerts in Engineering - vitalyg2 - Operations Manager

File Edit View Go Tasks Tools Help

Search Overrides Scope Find Tasks

Monitoring

- Management Configuration Services
- Management Data Access
- Management Group Details
- Management Packs and Workflows
- Management Server
- Network Discovery
- Notification
- Synthetic Transaction
- TFS Work Item Synchronization**
 - Alerts in Engineering
 - New Alerts
 - State
- UNIX/Linux Computers
 - vitalyg app
 - vitalyg2tfs
 - VITALYGTFSMP
- Web Application Transaction Monitoring
- Windows Service And Process Monitoring

Show or Hide Views...
New View ▶

- Monitoring**
- Authoring
- Reporting
- Administration
- My Workspace

Ready

Alerts in Engineering

Alerts assigned to Engineering (1)

Icon	Source	Description	Resolution State	Owner
⚠	vitalyg2/ClientCallbackExampleCS	'ASP.clientcallback_aspx.ProcessRequ...	Assigned to Engineering	

Alerts resolved by Engineering (1)

Icon	Source	Description	Owner	Ticket ID	Age
⚠	vitalyg2/ClientCallbackExampleCS	'_ASP.FastObjectFactory_app_web_axqIB...	Steve Ballmer	25 (Revision 5)	16 Mi

Alert Details

⚠ **Server Performance Exception**

Source: [vitalyg2/ClientCallbackExampleCS](#)

Full Path Name: [vitalyg2.redmond.corp.microsoft.com/vitalyg2.redmond.corp.microsoft.com/vitalyg2/ClientCallbackExampleCS](#)

Alert Rule: [Generate Alert for Performance APM Event](#)

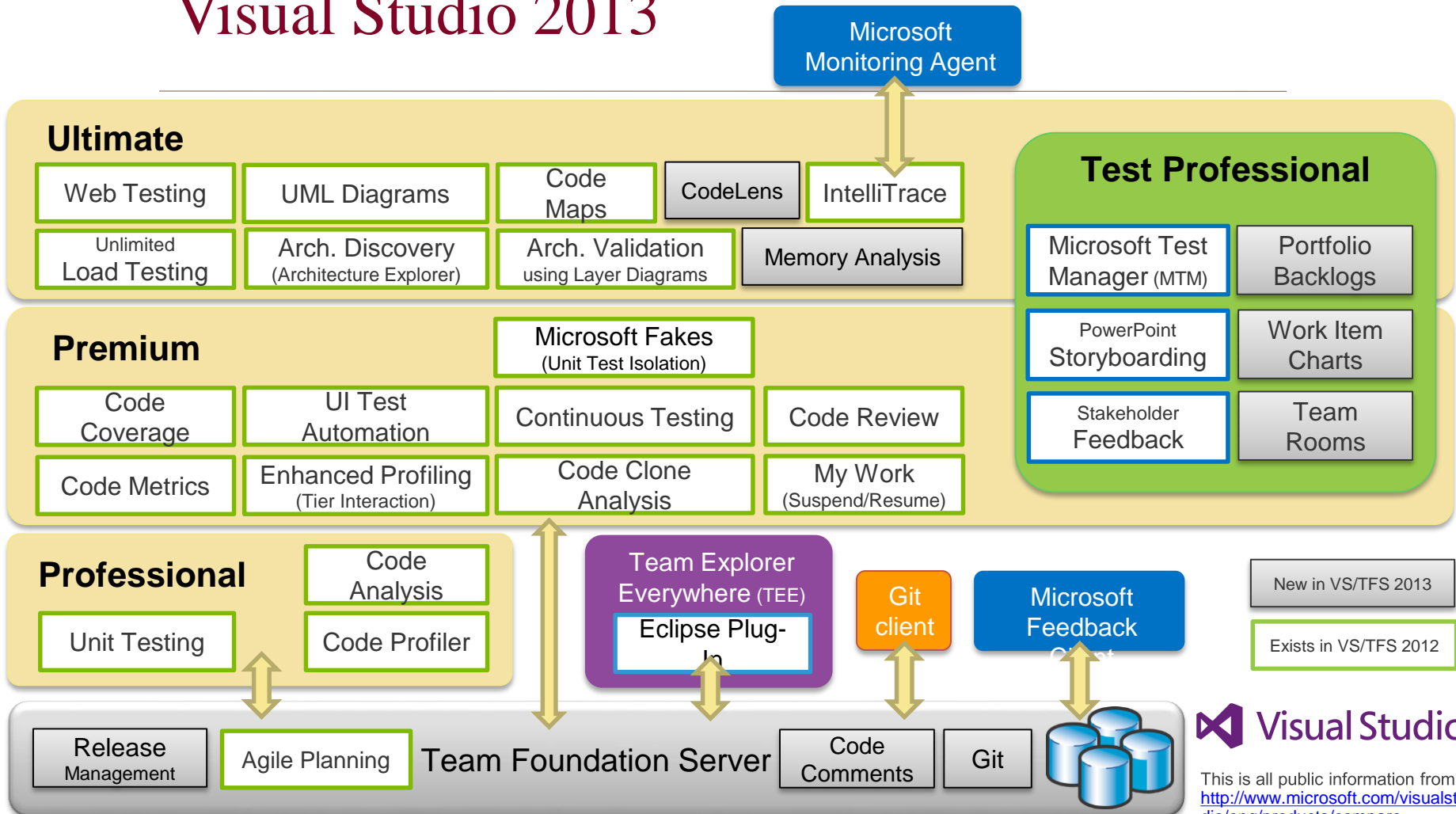
Created: 2/21/2012 2:26:26 PM

Alert ID: ['_ASP.FastObjectFactory_app_web_axqIB...](#)

Alert Description: ['_ASP.FastObjectFactory_app_web_axqIB...](#) has vitalyg follow m=evc

Task Pane

Visual Studio 2013



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This is all public information from: <http://www.microsoft.com/visualstudio/eng/products/compare>

Weiterführende Links

- Fertig installierte virtuelle Maschine mit Visual Studio & TFS 2013 zum Herunterladen:
<http://aka.ms/almvms>
- Eigene Ideen zu Visual Studio oder TFS einbringen & abstimmen:
<http://visualstudio.uservoice.com>
- Visual Studio Online (TFS in der Cloud; kostenfrei bis 5 Benutzer)
<http://tfs.visualstudio.com>
- MSDN: New for Application Lifecycle Management in Visual Studio 2013
<http://msdn.microsoft.com/en-us/library/bb385832>
- MSDN: Application Lifecycle Management with Visual Studio and Team Foundation Server
<http://msdn.microsoft.com/en-us/library/fda2bad5>
- Free Book: Testing for Continuous Delivery with VS 2012 (patterns & practices)
<http://msdn.microsoft.com/en-us/library/jj159345.aspx>
- MSDN: Upgrade Team Foundation Server
<http://msdn.microsoft.com/en-us/library/vstudio/jj620933.aspx>
- Team Foundation Installation Guide
<http://msdn.microsoft.com/en-us/library/vstudio/dd631902.aspx>
- MSDN: Compatibility between Team Foundation clients and Team Foundation Server
<http://msdn.microsoft.com/en-us/library/vstudio/dd997788.aspx>

Mehr Informationen zu TFS 2013?

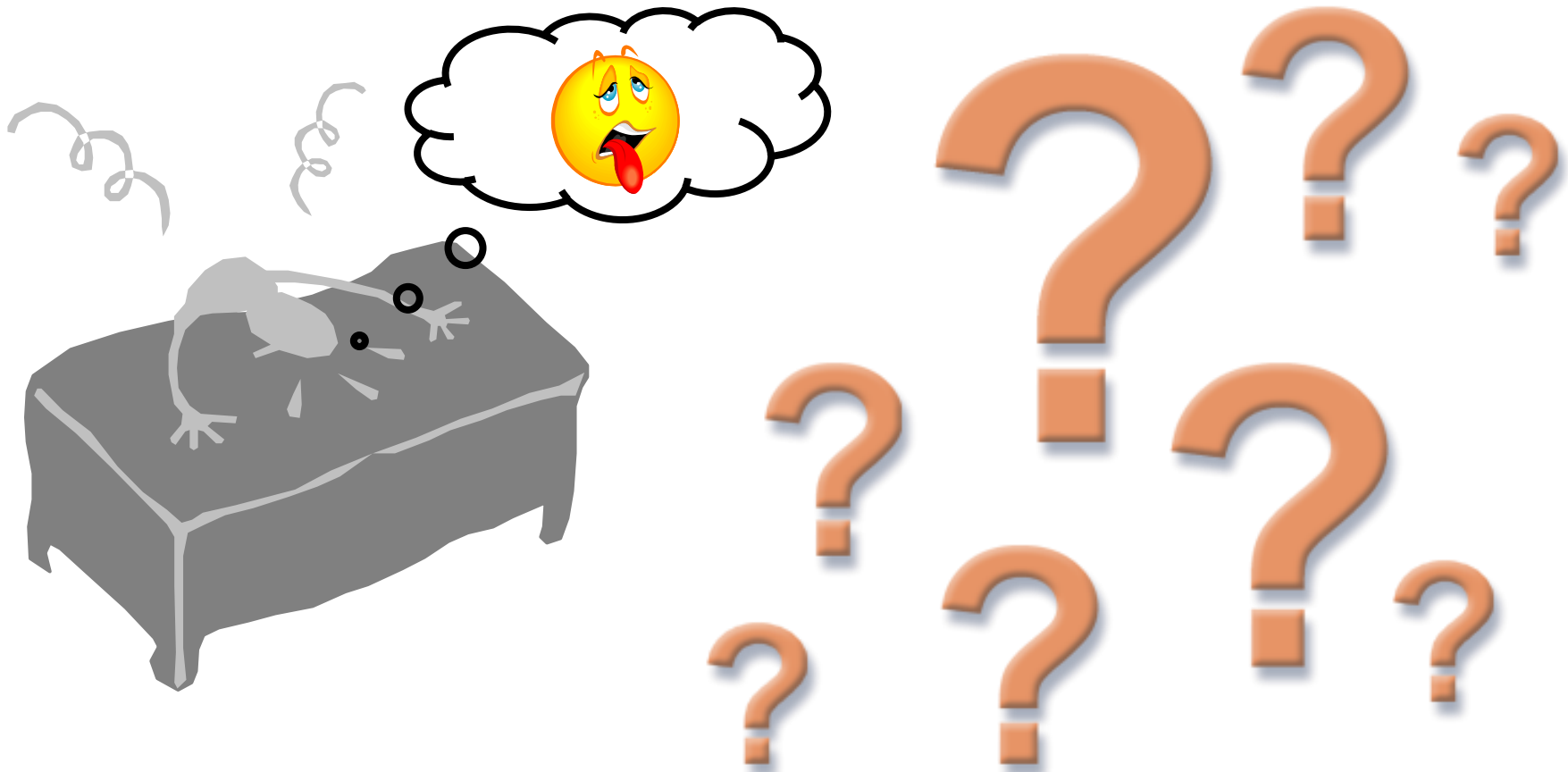
- MSDN: [Agile Portfolio Management \(APM\)](#)
- MSDN: [Work Item Charting](#)
- MSDN: [Code Commenting](#)
- MSDN: [Team Rooms](#)
- MSDN: [Web-based Test Case Management](#)
- MSDN: [Distributed Version Control using Git](#)
- MSDN: [New Default TF Build Templates](#)
- MSDN: [Release Management](#) (formerly InRelease)
- VSO: [Cloud-based Load Testing](#)
- MSDN: [Managed Memory Diagnostics](#)
- MSDN: [CodeLens](#)
- MSDN: [Microsoft Monitoring Agent](#)
- MSDN: [Entwicklungs- & Diagnosewerkzeuge für Windows Store-Apps](#)
- MSDN: [Diverse IDE-Verbesserungen](#) (Team Explorer etc.):

Sie wollen mehr?

Empfohlene Schulungen zum TFS:

- **TFS Workshop** – 2 Tage (Schwerpunkt: TFS)
<http://workshop.teamfoundationserver.de>
- **TFS Camp ALM** – 5 Tage (Schwerpunkt: TFS)
<http://tfscamp.de>
- **Professional Scrum Developer** – 3 Tage (Schwerpunkt: moderne Software-Prozesse/Praktiken mit VS/TFS nutzen)
<http://scrumdeveloper.de>
- **Scrum für Manager** – Abendveranstaltung für Manager
<http://scrum-fuer-manager.com>

Danke für Ihre Aufmerksamkeit!



Im Anschluss oder per E-Mail an:
nenloje@teamsystempro.de

Über Neno Loje

- Neno unterstützt Unternehmen und Teams
 - moderner und agiler zu werden
 - bei der Softwareentwicklung mit Team Foundation Server, Visual Studio & Scrum
 - bei der Einführung des Team Foundation Servers – von der Entscheidung über die Migration bis zur individuellen Anpassung.

Neno Loje

Team Foundation Server (TFS)

Application Lifecycle Management (ALM)

Moderne Softwareentwicklungsmethoden (Scrum)