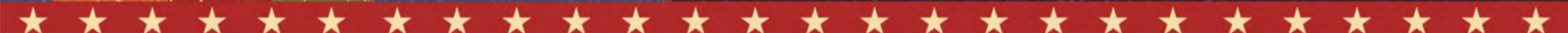


Team Foundation Server 2015: Must-Have Tools and Widgets

Richard Hundhausen
Consultant
Accentient, Inc.

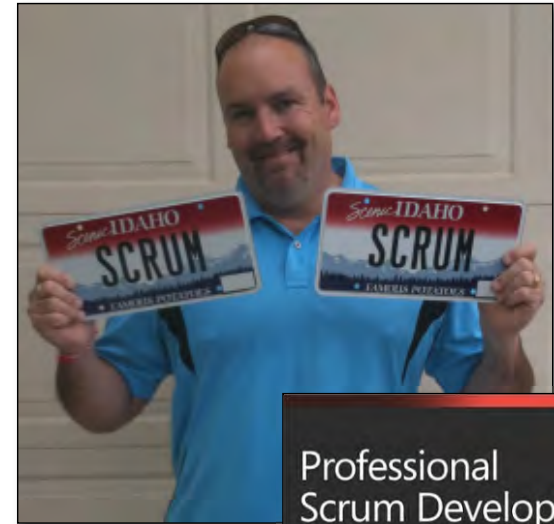


About Me

- From Boise, Idaho, USA
- President of Accentient
- Microsoft Regional Director
- Microsoft MVP (Visual Studio ALM)
- Professional Scrum Developer
- Professional Scrum Trainer
- Author of books and courses
- richard@accentient.com



@rhundhausen



Visual Studio **LIVE!**
EXPERT SOLUTIONS FOR .NET DEVELOPERS

Session Backlog

- Tools for Administrators
- Tools for the Team
- Tools for Consultants
- Other Resources



"I may not understand what I'm installing, but that's not my job. I just need to click Next, Next, Finish so I can walk to the next system and repeat the process."

– Anonymous Administrator



TOOLS FOR ADMINISTRATORS

Team Foundation Power Tools

- A set of enhancements, tools, and command-line utilities that increase productivity of various scenarios

Best Practices Analyzer	TFPT.exe
Custom Check-In Policies (TFVC)	Test Attachment Cleaner
Process Template Editor	Windows PowerShell Cmdlets
Storyboard Shapes	Windows Shell Extensions
Team Explorer Enhancements	Work Item Templates

<http://bit.ly/1H6w1xU>

TFS Sidekicks

- A 3rd party suite of tools for administrators and advanced users
- Provides advanced capabilities in many areas
- Free download from Attrice

[Connection](#)
[History Sidekick](#)
[Status Sidekick](#)
[Workspace Sidekick](#)
[Labels Sidekick](#)
[Shelveset Sidekick](#)
[Code Review Sidekick](#)
[Permission Sidekick](#)
[Users View Sidekick](#)
[VSIP Configuration](#)
[VSIP Search Items](#)
[VSIP Build Type editing](#)

<http://bit.ly/roE08>

TFS Administration Tool

- Allows administrators to view/manage user permissions across ...
 - Team Foundation Server
 - SQL Server Reporting Services
 - SharePoint
- Free download from CodePlex
 - Requires Team Explorer 2013

<http://bit.ly/ghBex>

TFS Team Project Manager

- Automates tasks across team projects ...
 - View recent activity
 - Manage build process templates and definitions
 - Manage security
 - Manage source control
 - Manage work item configuration
- Free download from CodePlex

<http://bit.ly/1sw7buM>

Windows PowerShell



- Microsoft's task automation framework
- Use PowerShell to manage TFS
 - Cmdlets come with the TFS Power Tools
 - More here <https://github.com/igoravl/tfscmdlets>
 - Write your own
- Use PowerShell ISE for an integrated scripting environment

“The problem with quick and dirty, is that the dirty remains long after the quick has been forgotten.”

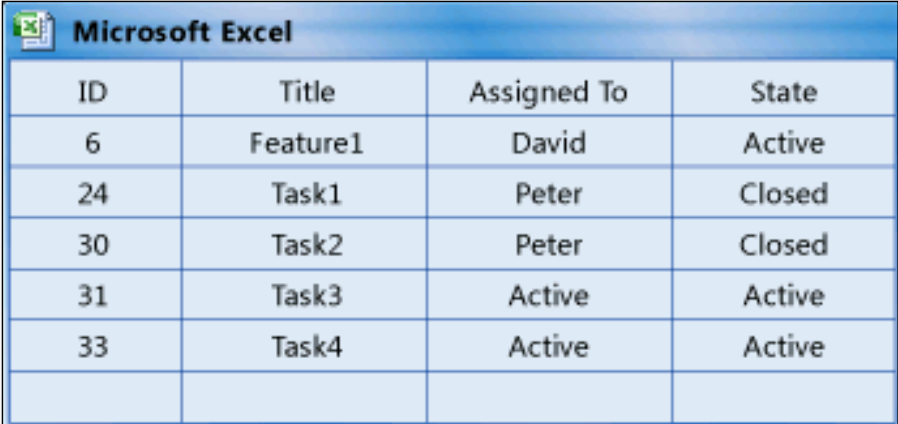
- Steve McConnell



TOOLS FOR THE TEAM

Microsoft Excel

- You can use Excel to:
 - Query work items
 - Bulk update work items
 - Add new work items
 - Work “offline”
 - Build and run reports
- Install TFS Office Integration 2015 to enable



A screenshot of a Microsoft Excel window titled "Microsoft Excel". The window displays a table with four columns: "ID", "Title", "Assigned To", and "State". The table contains five rows of data. The first row has ID 6, Title Feature1, Assigned To David, and State Active. The second row has ID 24, Title Task1, Assigned To Peter, and State Closed. The third row has ID 30, Title Task2, Assigned To Peter, and State Closed. The fourth row has ID 31, Title Task3, Assigned To Active, and State Active. The fifth row has ID 33, Title Task4, Assigned To Active, and State Active. The table is styled with a light blue header and alternating light blue and white rows.

ID	Title	Assigned To	State
6	Feature1	David	Active
24	Task1	Peter	Closed
30	Task2	Peter	Closed
31	Task3	Active	Active
33	Task4	Active	Active

MSSCCI Provider

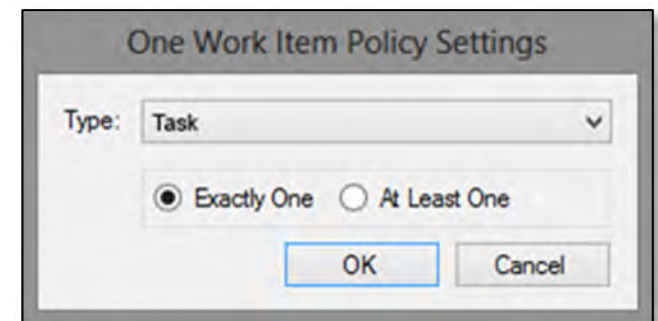
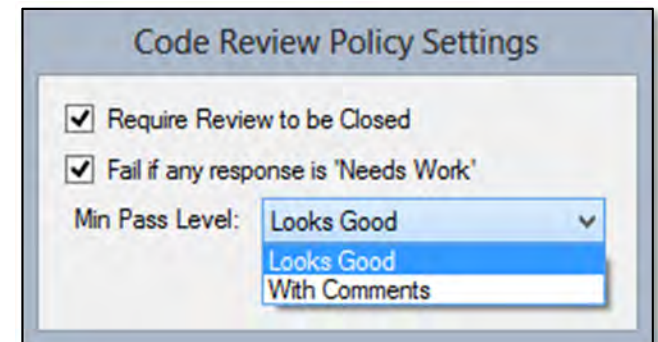
- Microsoft Source-Code Control Interface
- Enables non/older Visual Studio clients to use TFS version control
- Requirements
 - Visual Studio Team Explorer 2013
 - Team Foundation Server 2005+
- Available in 32 and 64 bit

- Visual Studio 2005
- Visual Studio .NET 2003
- Visual C++ 6 SP6
- Visual Basic 6 SP6
- Visual FoxPro 9 SP2
- Microsoft Access 2007
- SQL Server Management Studio
- Enterprise Architect 7.5
- PowerBuilder 11.5
- Microsoft eMbedded VC++ 4.0
- MatLab (64-bit)

<http://bit.ly/1f8oQBs> (32 bit)

Colin's ALM Checkin Policies

- Policies enforce quality/dev practices
 - TFS Power Tools installs additional policies
- MVP Colin Dembovsky has created some additional checkin policies too
 - Code Review Policy
 - One Work Item Policy



<http://bit.ly/1Yba6cK>

Auto-Create Test Cases



- Tester Power Tool
 - Auto creates test case work items from acceptance criteria
 - Created by Anna Russo (ALM MVP)

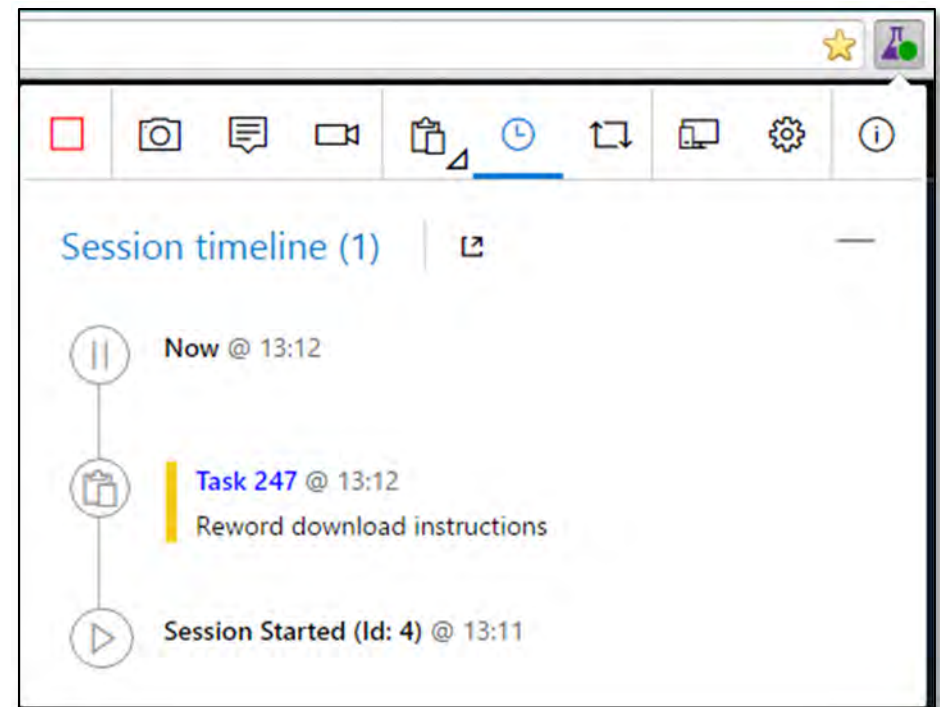
The screenshot displays the 'PBI Acceptance Criteria' and 'Test Cases' sections. The 'ACCEPTANCE CRITERIA' section on the left shows a list of criteria with a rich text editor. Two criteria are highlighted: '-Verify opt in' and '-Verify opt out'. Pink arrows point from these criteria to the 'Test Cases' section on the right. The 'Test Cases' section shows two newly created test cases: 'Test Case T1: Verify opt in' and 'Test Case T2: Verify opt out'. Each test case has a detailed view showing its title, description, status, and steps. The test cases are automatically created from the acceptance criteria, as indicated by the arrows.

<http://bit.ly/1tvccvn>

Exploratory Testing



- Perform exploratory testing from Chrome
- Capture screenshots, annotation, notes, create work items
- TFS 2015 and VSTS



<http://bit.ly/10vHEU6>

Catlight

- Build status notifications
- TFS 2015 and VSTS support
- “New” and XAML build support
- Runs on Windows and Mac



<http://bit.ly/2bcUCZw>

Consultant \kən-'səl-tənt

Any ordinary guy more than fifty miles from home.



TOOLS FOR CONSULTANTS

Migrating Version Control Artifacts

- There are many VC migration utilities available:

SCC	Utility	URL
CVS	Timely Migration	http://bit.ly/c10N40
SVN	Timely Migration	http://bit.ly/c10N40
StarTeam	Timely Migration	http://bit.ly/c10N40
Visual SourceSafe	Microsoft VSS Upgrade Wizard	http://bit.ly/10RfXWx
TFS > VSTS	OpsHub Migration Utility	http://bit.ly/1MpmmUP

- Ask the question: Is history needed? Can you just perform a “get latest” from the existing repository and check it in to TFS?

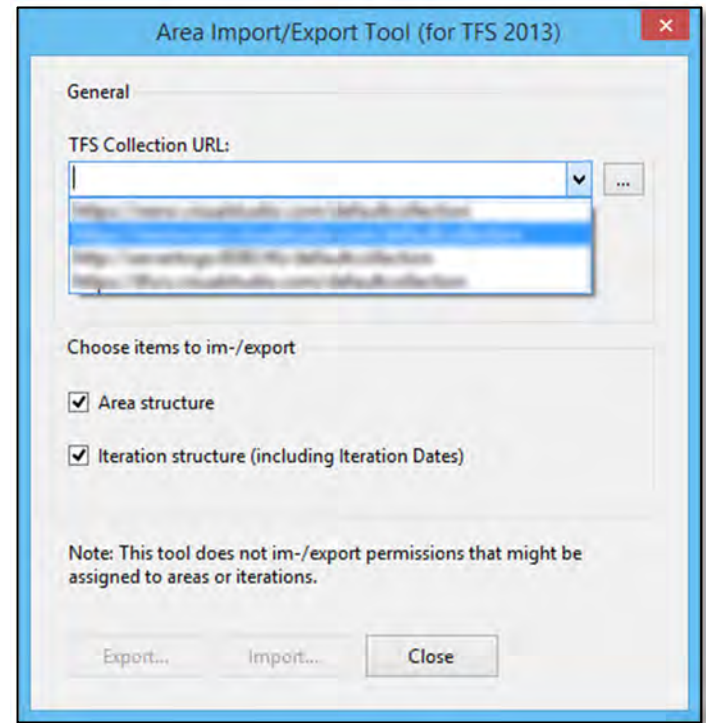
TFS Integration Tools

- Built on the TFS Integration Platform
- The TFS Integration Tools include
 - Adapters for TFS/VSO, ClearCase, ClearQuest, and file system
 - Synchronization monitoring tools and reports
 - Documentation, guidance, and case studies
- Tools have not yet been updated to 2013 or 2015 version
 - Workaround: Install Team Explorer 2012 ☹
 - It might be worth it, if you have a ton of customization

<http://bit.ly/1DlYmwf>

WI Area & Iteration Import/Export

- Built by fellow ALM MVP Neno Loje to export/import areas and iterations to/from a text file
 - Latest version supports iteration start and end dates



<http://bit.ly/1wtqeKh>

OTHER RESOURCES

Where Else To Look?

There are a number of community projects available that I didn't mention today ...

Community	URL
Visual Studio Gallery	http://bit.ly/0i8jFg
CodePlex	http://bit.ly/1u4eZKi
GitHub	https://github.com/search
VS ALM Rangers	http://aka.ms/widgets

Visual Studio ALM Community Widgets

- A list of cool, productive, and Ranger-recommended widgets for Visual Studio and Team Foundation Server
- Most widgets are free
- Updated monthly
- <http://aka.ms/widgets>



Still Can't Find It? Build It!

- Visual Studio is an extensible platform
- Team Foundation Server
 - Rich object models
 - REST
 - Service Hooks (VSTS)

<http://bit.ly/2b3KUnW>

Done () ;

(thank you)

richard@accentient.com | @rhundhausen