Microsoft Visual Studio

AIT TeamSystemPro TEAM

5.– 8. September 2011
in Nürnberg

Herbstcampus

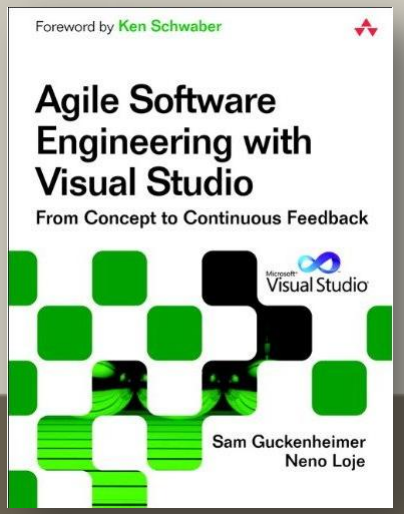
Wissenstransfer
par excellence

Keine Ausreden mehr!

Test Case Management & Tools für Tester im TFS 2010

Beginn: 15:40

Basierend auf:



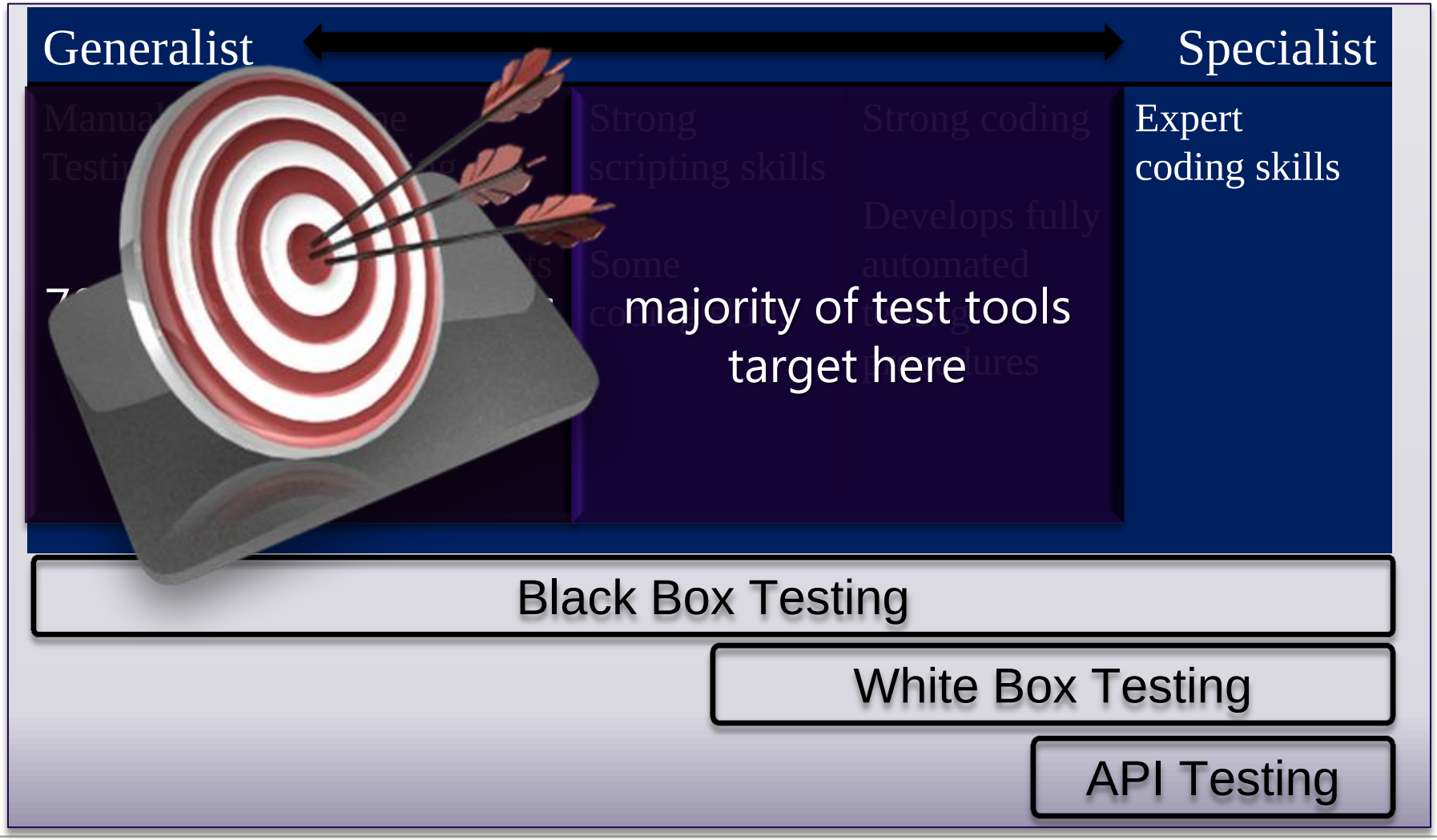
Referent: Neno Loje

Freier Berater & MVP für Visual Studio ALM, TFS

www.teamsystempro.de

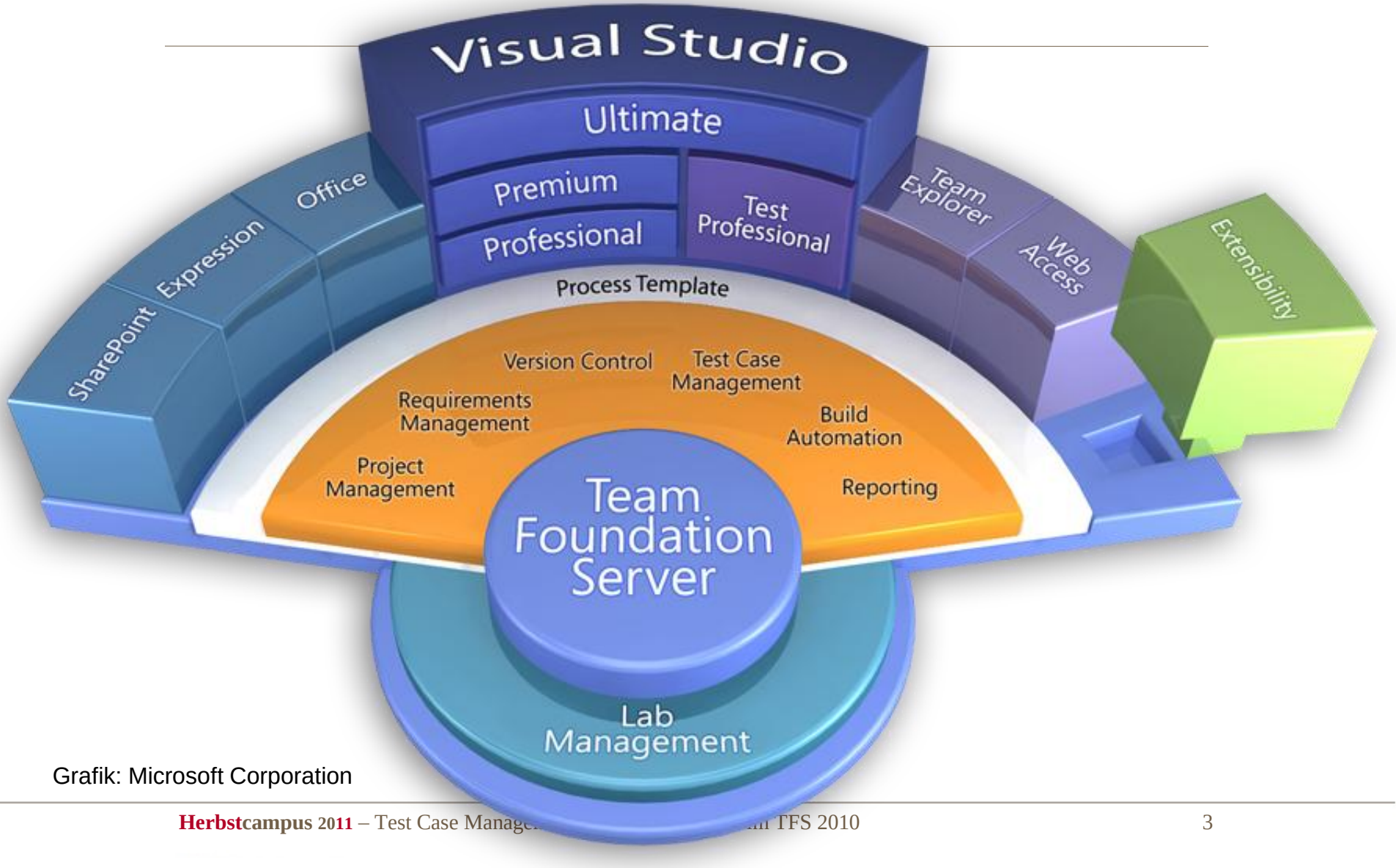
Neno Loje
teamsystempro.de

Tester Segmentation



Folie: Microsoft Corporation

Visual Studio 2010



Grafik: Microsoft Corporation

Requirement-Hierarchie

DEMO

Work Breakdown [Results]

Save Results | Refresh | Open in Microsoft Office | Edit Query | Column Options

Query Results: 10 items found (1 top level, 9 linked items, 1 currently selected).

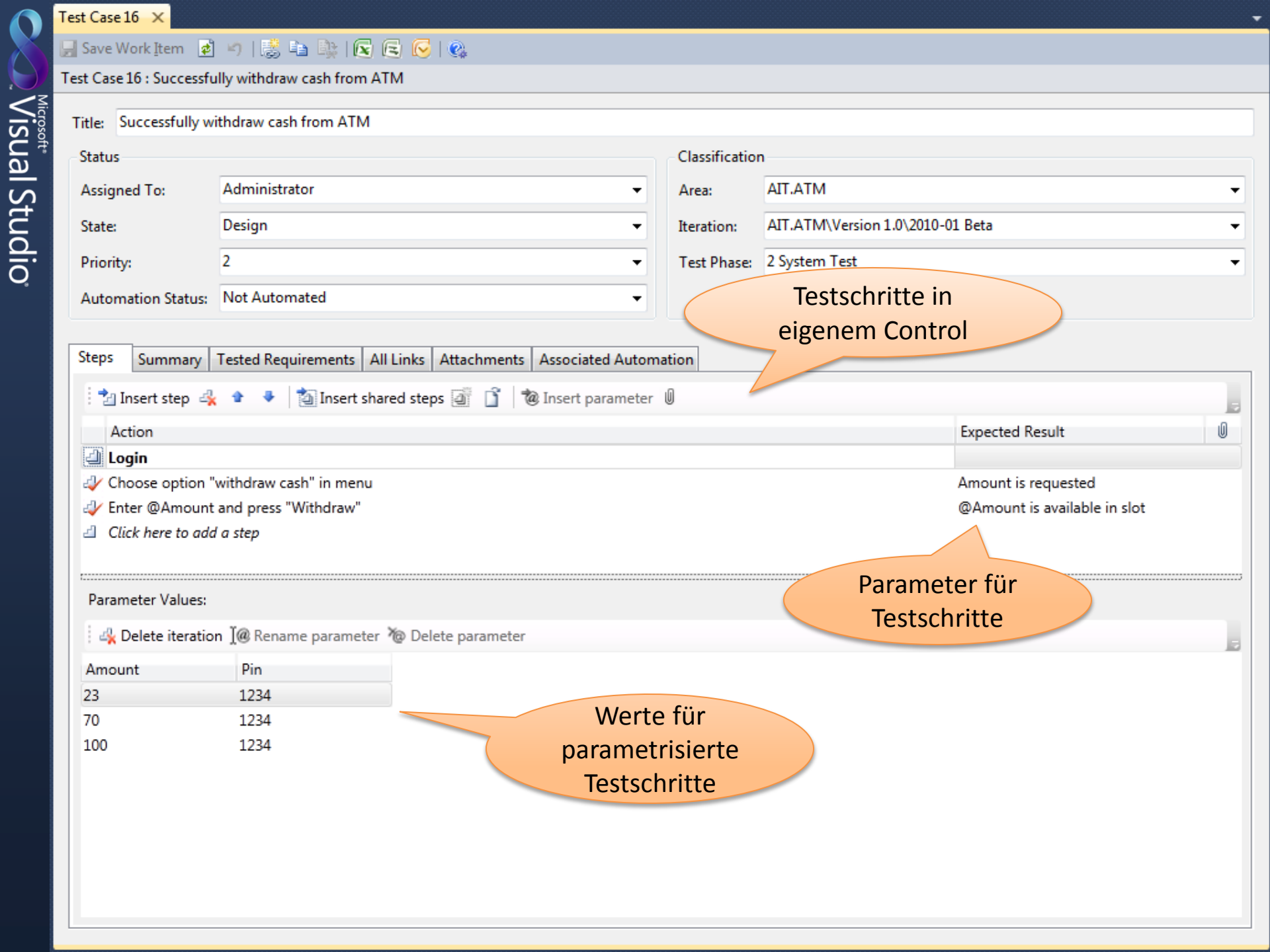
ID	Title	Requirement Type	Work Item...	Priority	Assigned
11	Rechenschieber ablösen	Business Objective	Requirement	2	Neno Loj
12	Allgemein	Functional	Requirement	2	Neno Loj
13	Benutzer soll Versionsinformationen angezeigt bekommen	Feature	Requirement	2	Neno Loj
14	Benutzer soll direkt zur Dokumentation springen können	Feature	Requirement	2	Neno Loj
15	Benutzer soll das Programm installieren können	Feature	Requirement	2	Neno Loj
16	Grundrechenarten	Functional	Requirement	2	Neno Loj
17	Benutzer soll zwei Zahlen addieren können	Feature	Requirement	2	Neno Loj
18	Benutzer soll zwei Zahlen subtrahieren können	Feature	Requirement	2	Neno Loj
19	Benutzer soll zwei Zahlen multiplizieren können	Feature	Requirement	2	Neno Loj
20	Benutzer soll zwei Zahlen dividieren können	Feature	Requirement	2	Neno Loj

Project: Taschenrechner **Server:** servertogo\DefaultCollection **Query:** Work Breakdown **List type:** Tree

ID	Title 1	Title 2	Title 3	Title 4	Requirement Type	Work Item Type
11	Rechenschieber ablösen				Business Objective	Requirement
12		Allgemein			Functional	Requirement
13			Benutzer soll Versionsinformationen angezeigt bekommen		Feature	Requirement
14			Benutzer soll direkt zur Dokumentation springen können		Feature	Requirement
15			Benutzer soll das Programm installieren können		Feature	Requirement
16		Grundrechenarten			Functional	Requirement
17			Benutzer soll zwei Zahlen addieren können		Feature	Requirement
18			Benutzer soll zwei Zahlen subtrahieren können		Feature	Requirement
19			Benutzer soll zwei Zahlen multiplizieren können		Feature	Requirement
20			Benutzer soll zwei Zahlen dividieren können		Feature	Requirement

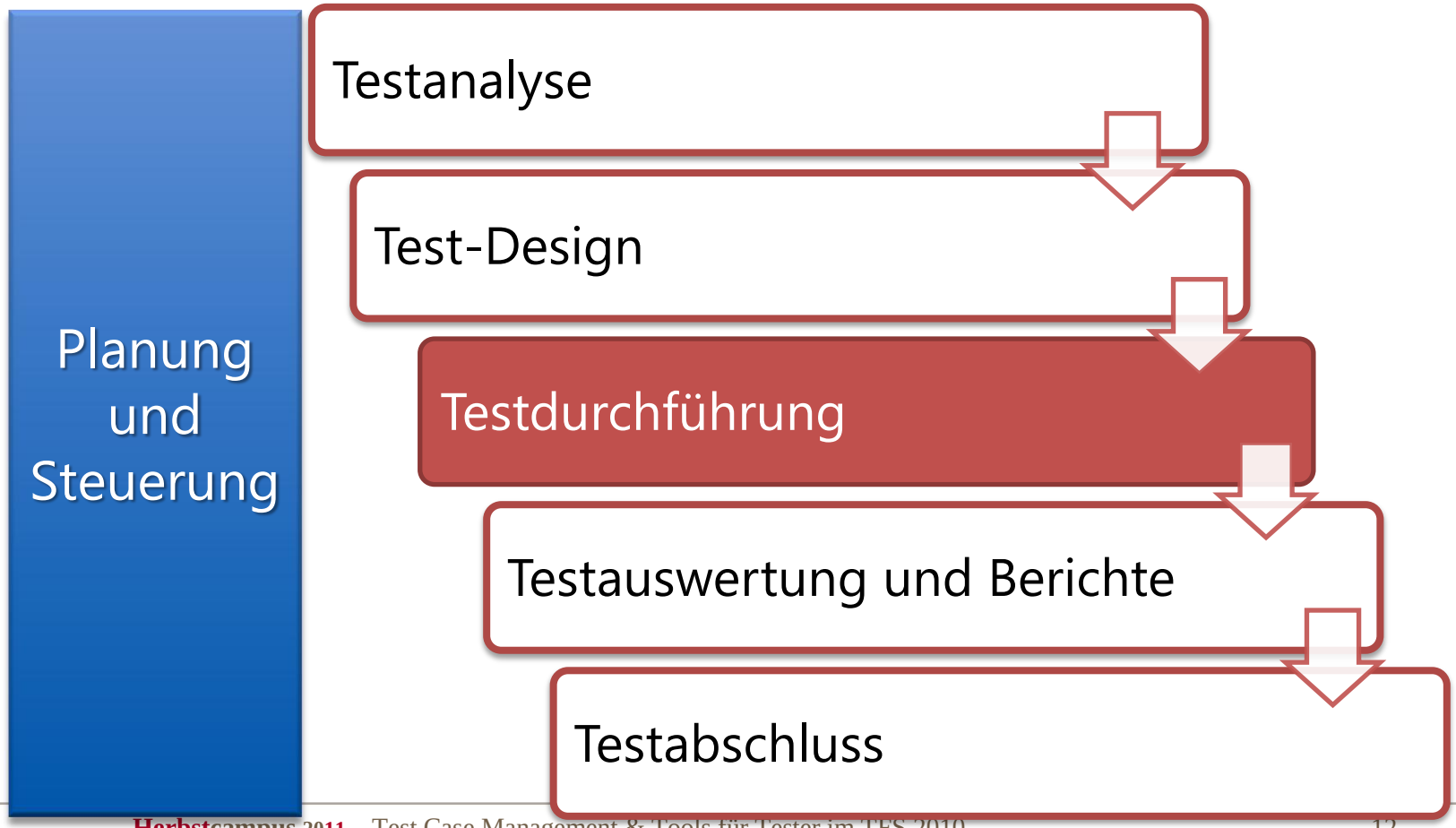
Testplanung

DEMO


Test Case 16
Save Work Item
Test Case 16 : Successfully withdraw cash from ATM
Title: Successfully withdraw cash from ATM
Status
Assigned To: Administrator
State: Design
Priority: 2
Automation Status: Not Automated
Classification
Area: AIT.ATM
Iteration: AIT.ATM\Version 1.0\2010-01 Beta
Test Phase: 2 System Test
Testschritte in eigenem Control
Steps
Summary
Tested Requirements
All Links
Attachments
Associated Automation
Insert step
Insert shared steps
Insert parameter
Action
Expected Result
Login
Choose option "withdraw cash" in menu
Amount is requested
Enter @Amount and press "Withdraw"
@Amount is available in slot
Click here to add a step
Parameter für Testschritte
Parameter Values:
Delete iteration
Rename parameter
Delete parameter
Amount
Pin
23
1234
70
1234
100
1234
Werte für parametrisierte Testschritte

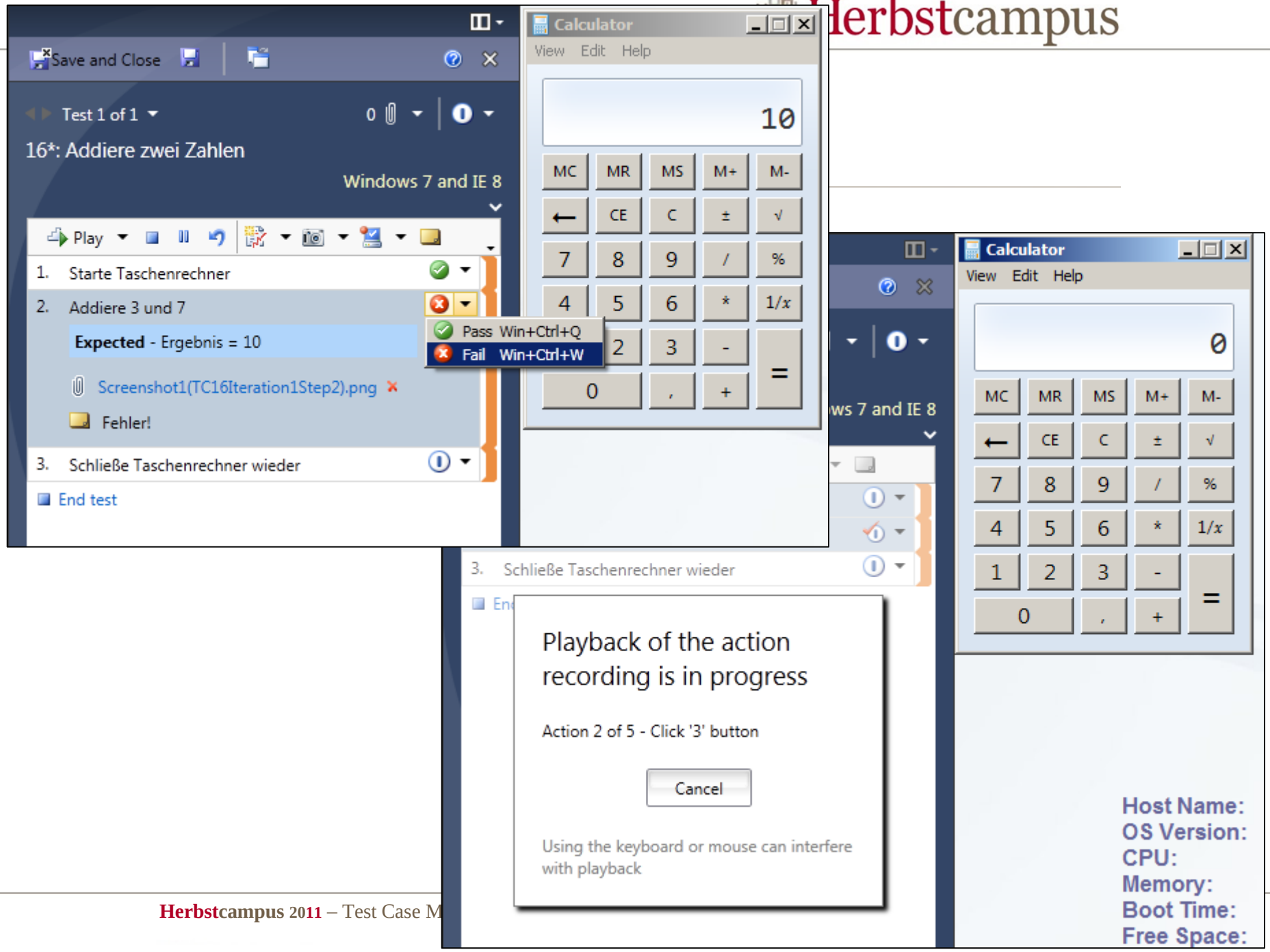
Fundamentaler Testprozess

Nach ISTQB-Standard:



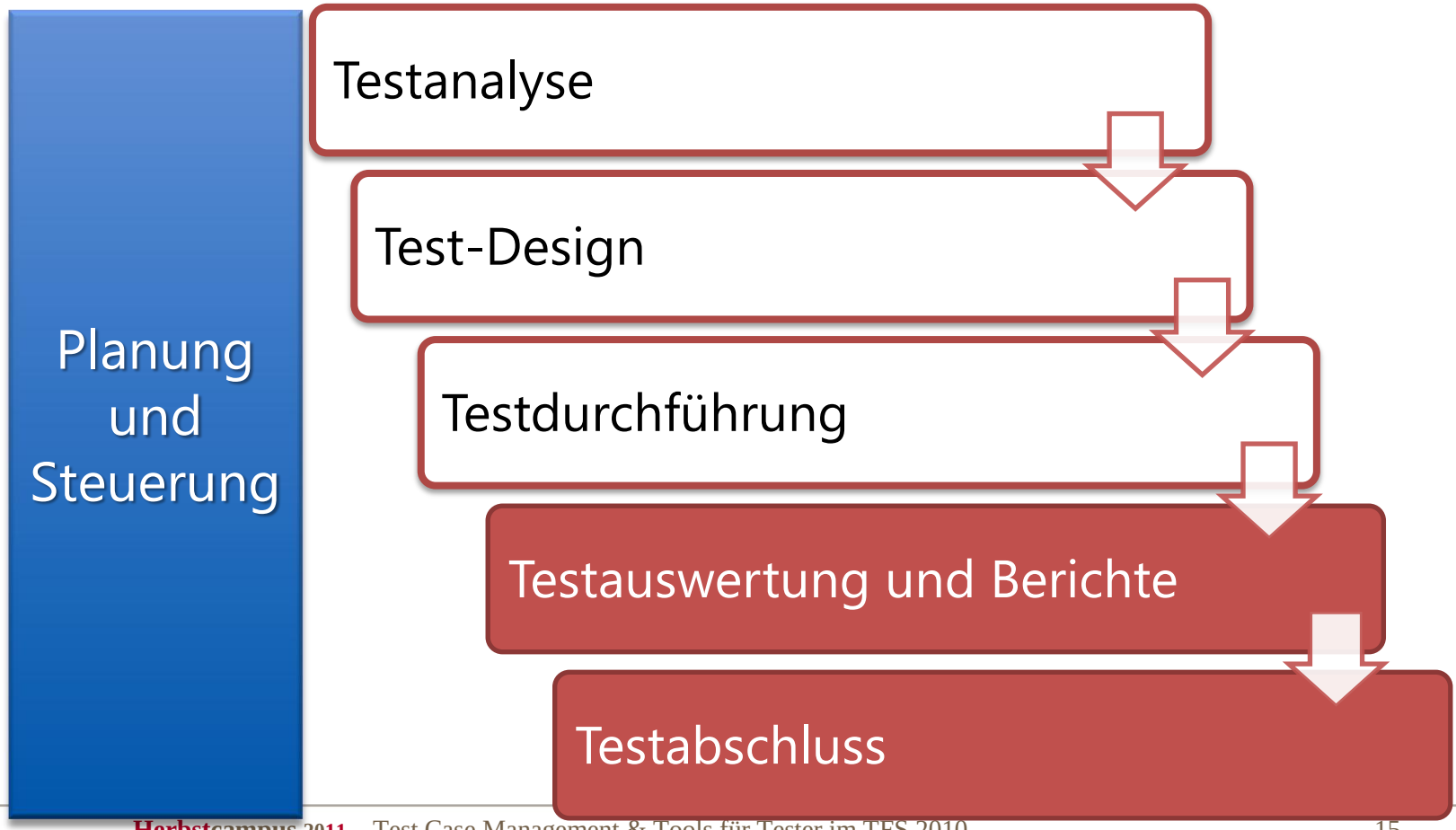
Manuelles Testen

DEMO

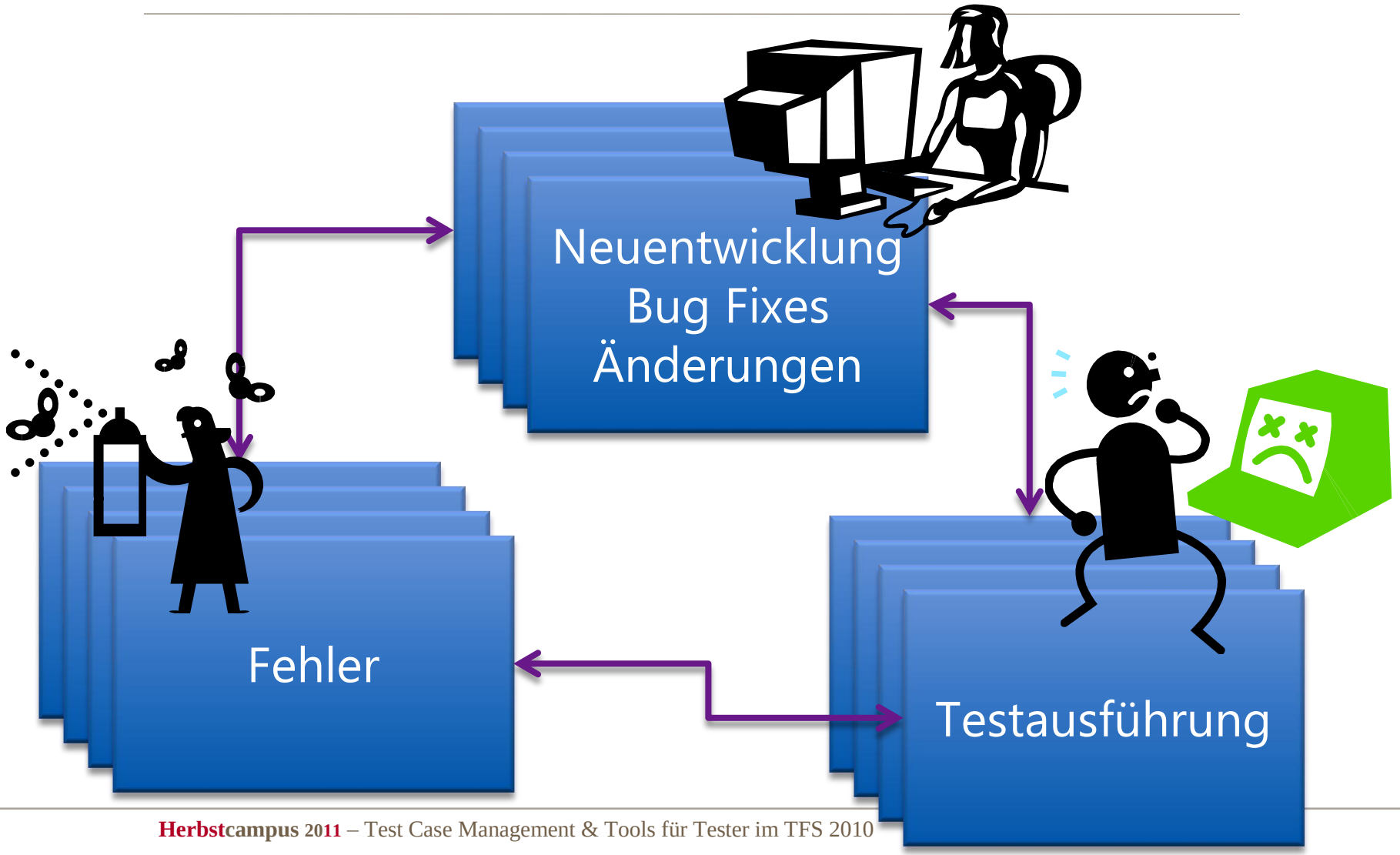

Save and Close
Test 1 of 1
0
16*: Addiere zwei Zahlen
Windows 7 and IE 8
Play
1. Starte Taschenrechner
2. Addiere 3 und 7
Expected - Ergebnis = 10
Screenshot1(TC16Iteration1Step2).png
Fehler!
3. Schließe Taschenrechner wieder
End test
Pass Win+Ctrl+Q
Fail Win+Ctrl+W
Calculator
View Edit Help
10
MC MR MS M+ M-
← CE C ± √
7 8 9 / %
4 5 6 * 1/x
1 2 3 - =
0 , +
0
Playback of the action recording is in progress
Action 2 of 5 - Click '3' button
Cancel
Using the keyboard or mouse can interfere with playback
Host Name:
OS Version:
CPU:
Memory:
Boot Time:
Free Space:

Fundamentaler Testprozess

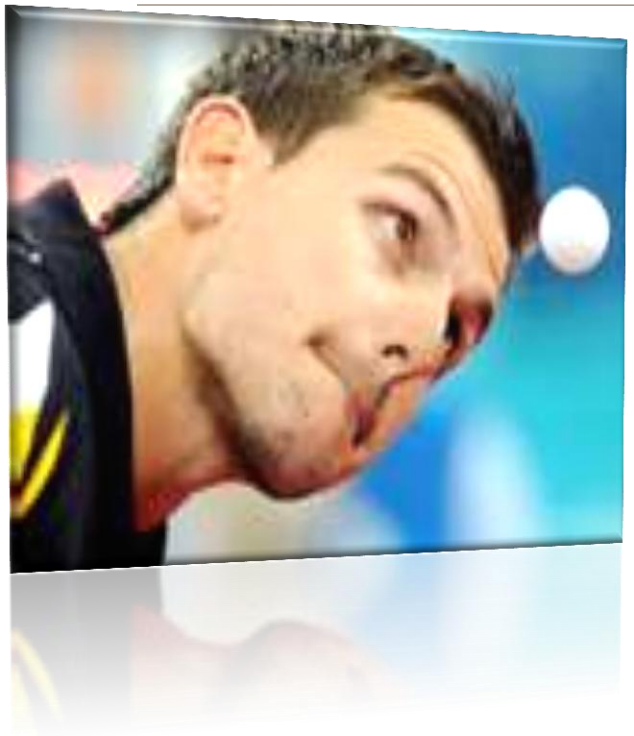
Nach ISTQB-Standard:



"Bug-Ping-Pong-Teufelskreis"



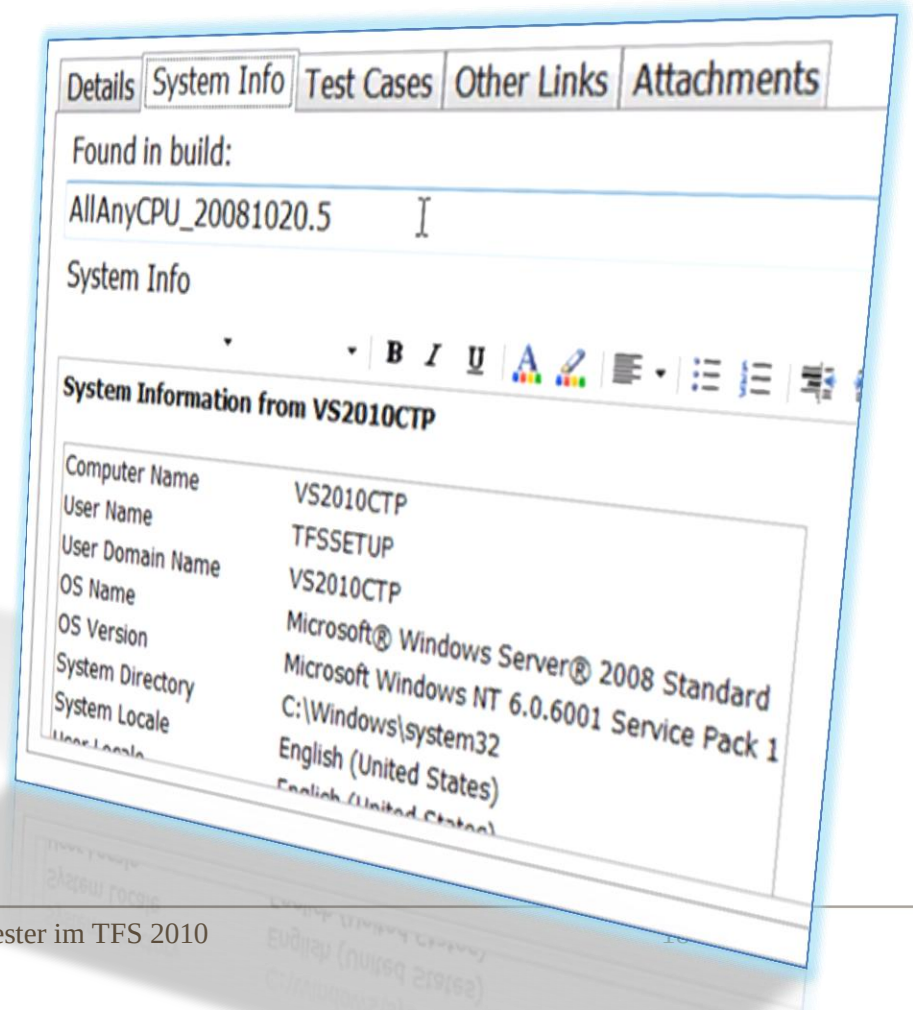
Bug-Ping Pong vermeiden



- Entwickler benötigen mehr Informationen zum Fehler
  - Zuverlässig/Automatisch
  - Transparent

A Better Solution – The Actionable Bug

- The tester files an “actionable” bug which includes:
  - Steps to reproduce
  - System information
  - Screen shots
  - Full screen video, indexed
  - IntelliTrace debug log
  - Test environment



Folie: Microsoft Corporation

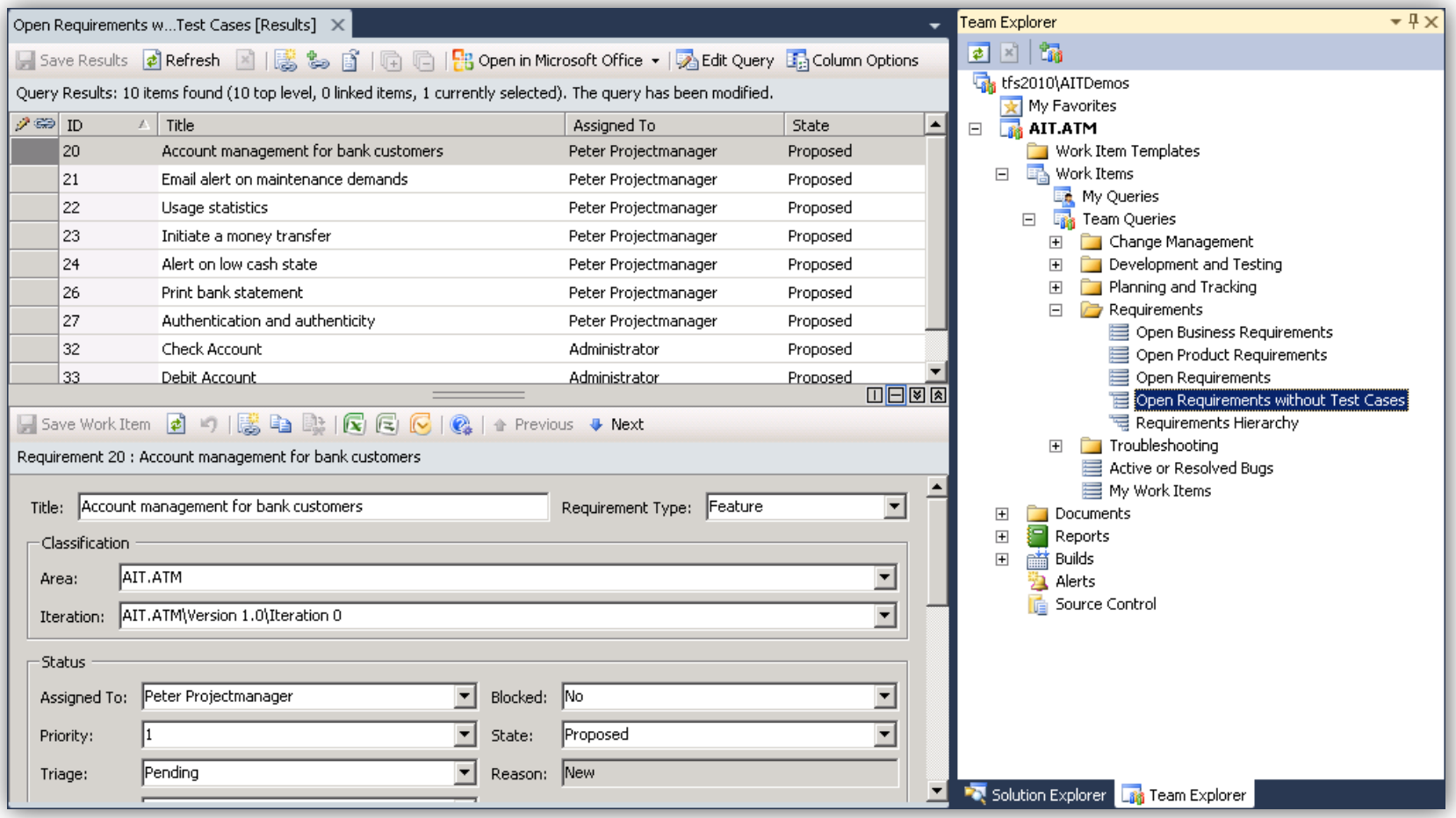
Reproduzierbare Bugs

DEMO

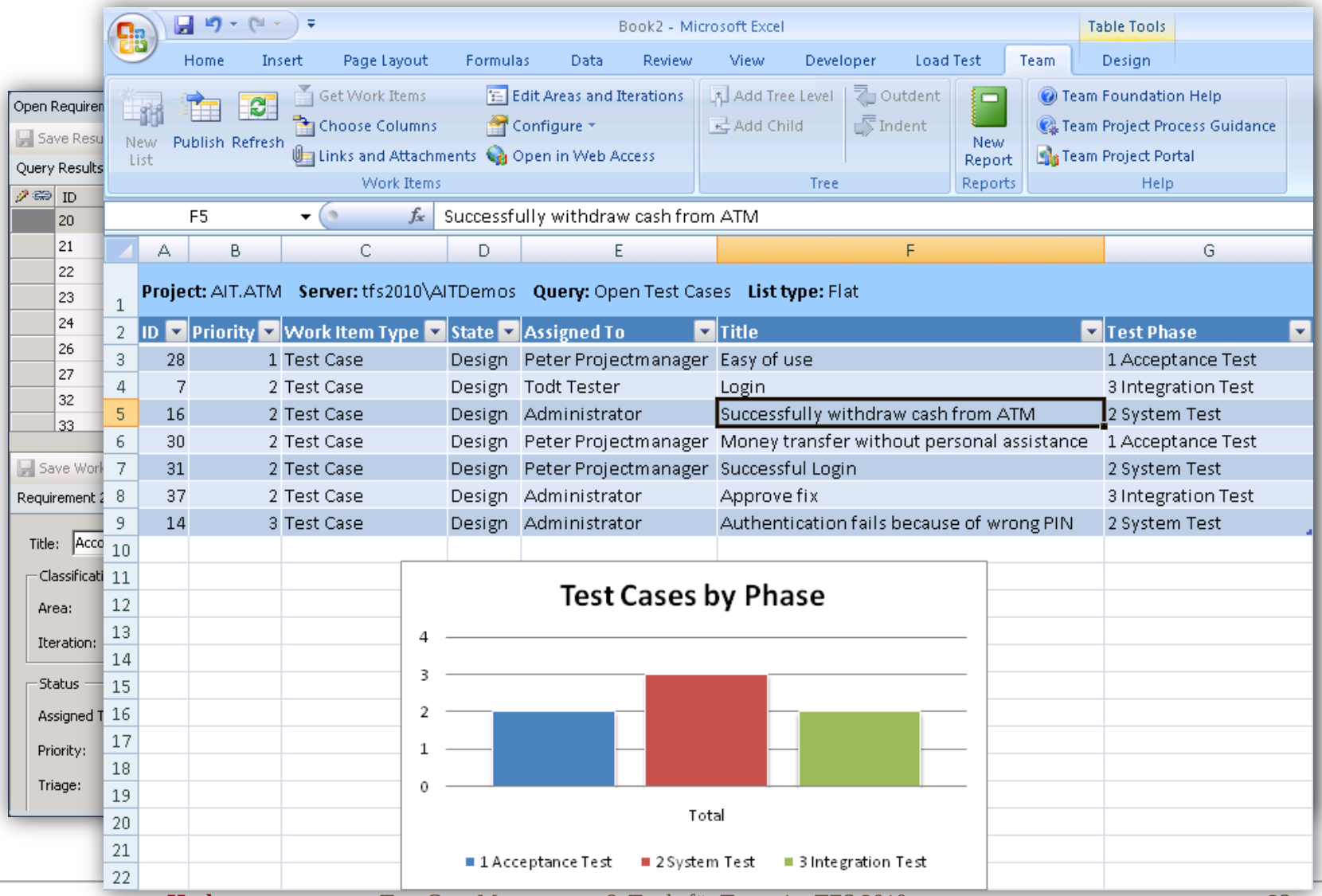
Auswertungen über Berichte

- Live-Daten
- Project Dashboards im Team-Portal
- Adhoc-Reporting mit Excel

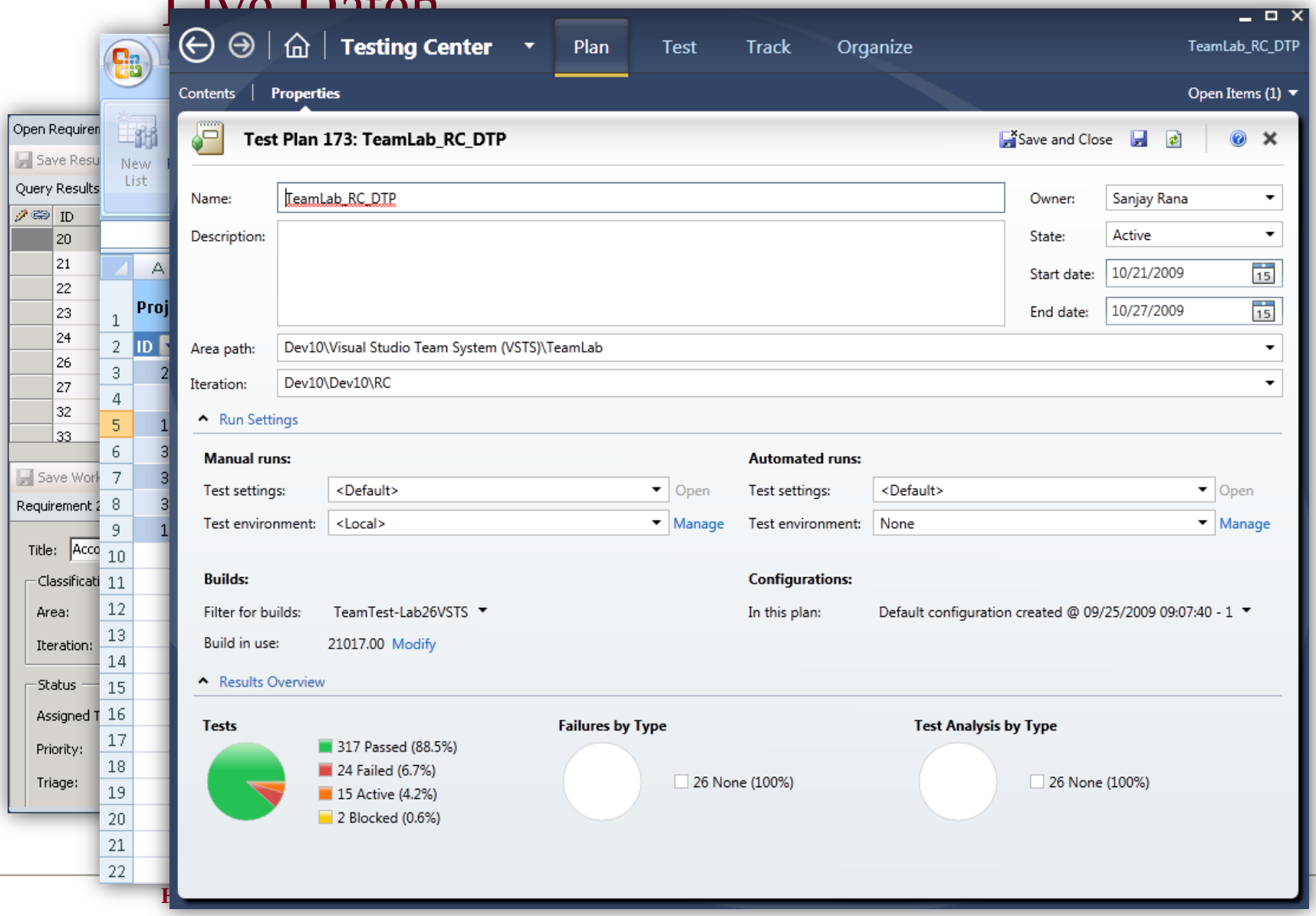
Live-Daten


Open Requirements w...Test Cases [Results]
Save Results
Refresh
Open in Microsoft Office
Edit Query
Column Options
Query Results: 10 items found (10 top level, 0 linked items, 1 currently selected). The query has been modified.
ID
Title
Assigned To
State
20 Account management for bank customers Peter Projectmanager Proposed
21 Email alert on maintenance demands Peter Projectmanager Proposed
22 Usage statistics Peter Projectmanager Proposed
23 Initiate a money transfer Peter Projectmanager Proposed
24 Alert on low cash state Peter Projectmanager Proposed
26 Print bank statement Peter Projectmanager Proposed
27 Authentication and authenticity Peter Projectmanager Proposed
32 Check Account Administrator Proposed
33 Debit Account Administrator Proposed
Save Work Item
Previous
Next
Requirement 20 : Account management for bank customers
Title: Account management for bank customers
Requirement Type: Feature
Classification
Area: AIT.ATM
Iteration: AIT.ATM\Version 1.0\Iteration 0
Status
Assigned To: Peter Projectmanager
Blocked: No
Priority: 1
State: Proposed
Triage: Pending
Reason: New
Team Explorer
tfs2010\AITDemos
My Favorites
AIT.ATM
Work Item Templates
Work Items
My Queries
Team Queries
Change Management
Development and Testing
Planning and Tracking
Requirements
Open Business Requirements
Open Product Requirements
Open Requirements
Open Requirements without Test Cases
Requirements Hierarchy
Troubleshooting
Active or Resolved Bugs
My Work Items
Documents
Reports
Builds
Alerts
Source Control
Solution Explorer
Team Explorer

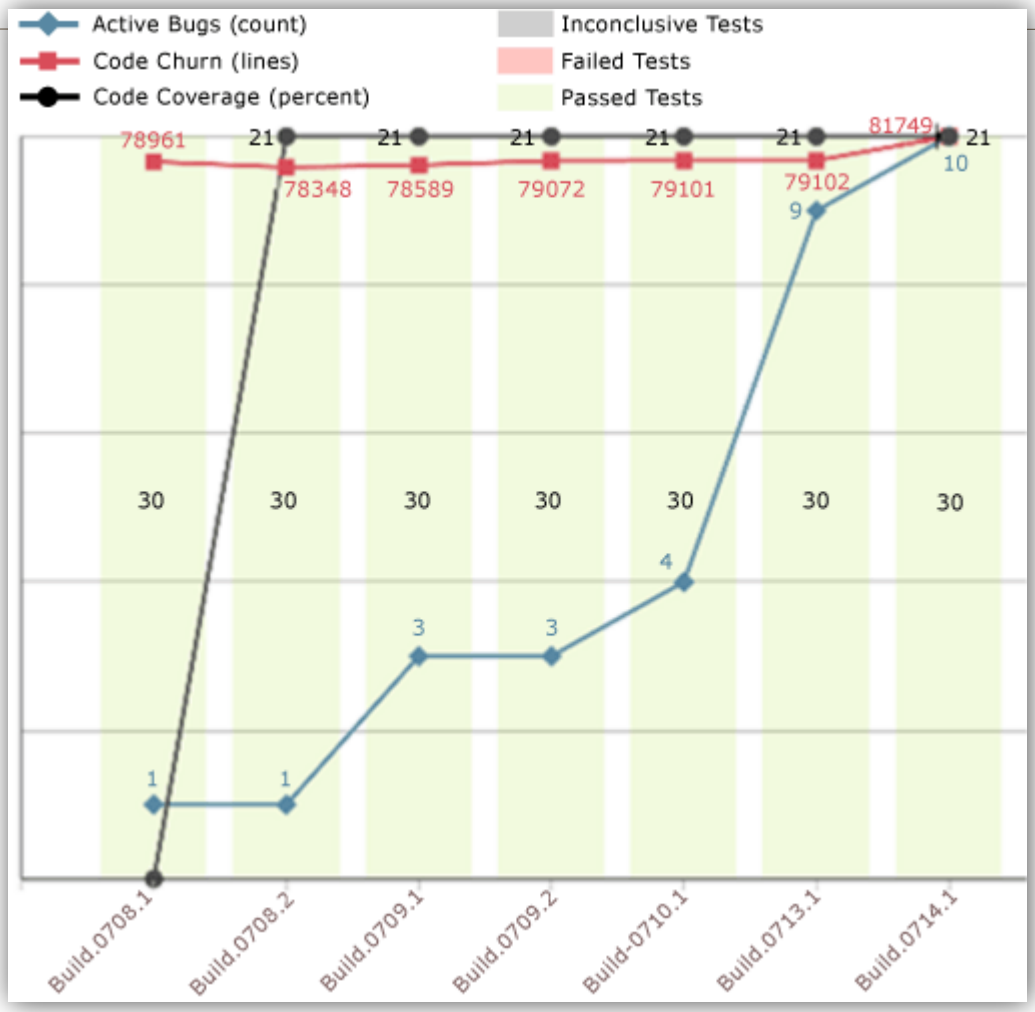
Live-Daten


Book2 - Microsoft Excel
Table Tools
Home
Insert
Page Layout
Formulas
Data
Review
View
Developer
Load Test
Team
Design
New List
Publish
Refresh
Get Work Items
Choose Columns
Links and Attachments
Edit Areas and Iterations
Configure
Open in Web Access
Work Items
Add Tree Level
Add Child
Outdent
Indent
Tree
New Report
Reports
Team Foundation Help
Team Project Process Guidance
Team Project Portal
Help
F5
Successfully withdraw cash from ATM
Project: AIT.ATM Server: tfs2010\AITDemos Query: Open Test Cases List type: Flat
ID | Priority | Work Item Type | State | Assigned To | Title | Test Phase
28 | 1 | Test Case | Design | Peter Projectmanager | Easy of use | 1 Acceptance Test
7 | 2 | Test Case | Design | Todt Tester | Login | 3 Integration Test
16 | 2 | Test Case | Design | Administrator | Successfully withdraw cash from ATM | 2 System Test
30 | 2 | Test Case | Design | Peter Projectmanager | Money transfer without personal assistance | 1 Acceptance Test
31 | 2 | Test Case | Design | Peter Projectmanager | Successful Login | 2 System Test
37 | 2 | Test Case | Design | Administrator | Approve fix | 3 Integration Test
14 | 3 | Test Case | Design | Administrator | Authentication fails because of wrong PIN | 2 System Test
Test Cases by Phase
4
3
2
1
0
Total
1 Acceptance Test
2 System Test
3 Integration Test

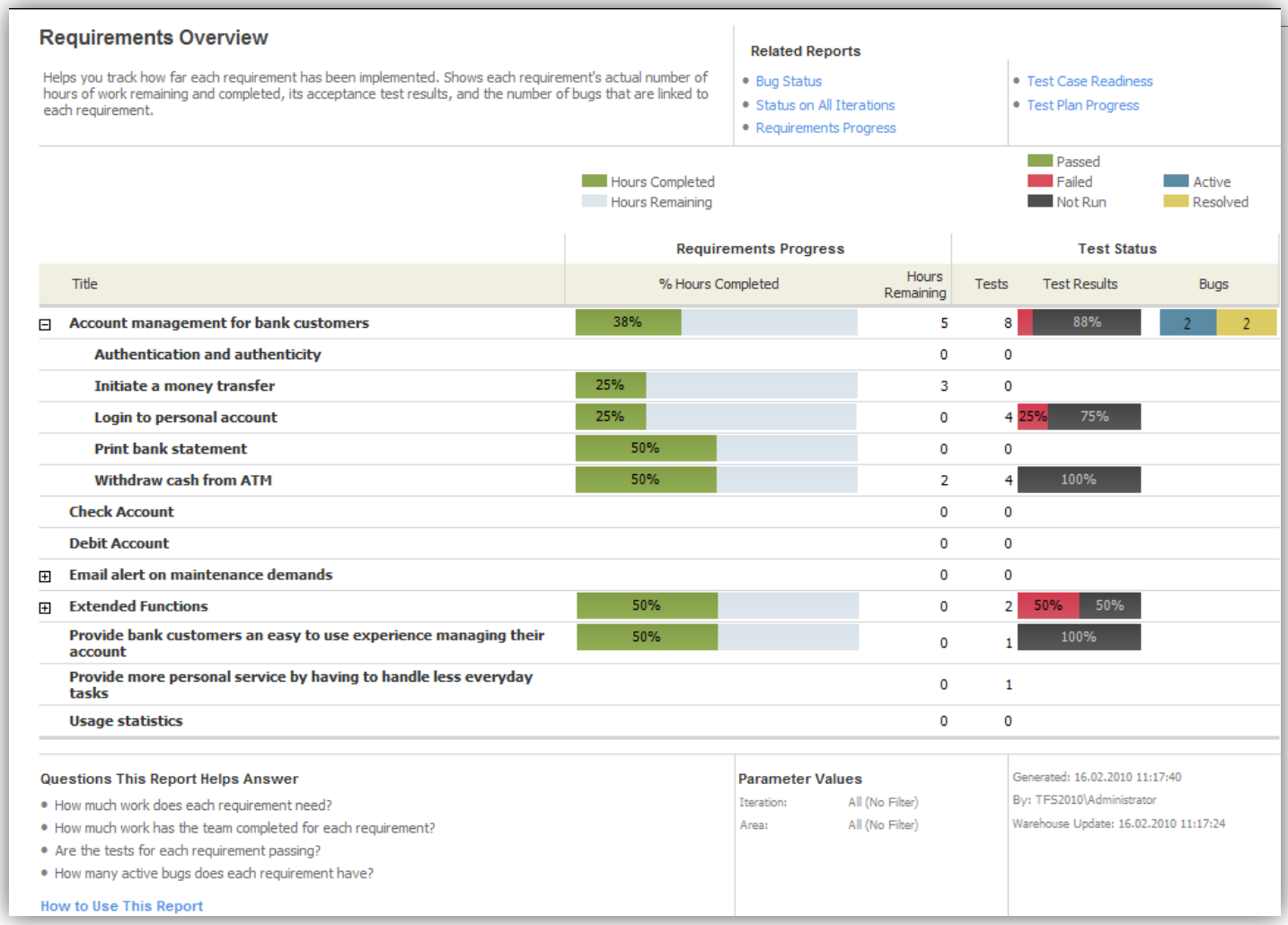
Live Daten


Testing Center
Plan
Test
Track
Organize
TeamLab_RC_DTP
Contents
Properties
Open Items (1)
Test Plan 173: TeamLab_RC_DTP
Save and Close
Name:
TeamLab_RC_DTP
Description:
Owner:
Sanjay Rana
State:
Active
Start date:
10/21/2009
End date:
10/27/2009
Area path:
Dev10\Visual Studio Team System (VSTS)\TeamLab
Iteration:
Dev10\Dev10\RC
Run Settings
Manual runs:
Test settings:
<Default>
Open
Test environment:
<Local>
Manage
Automated runs:
Test settings:
<Default>
Open
Test environment:
None
Manage
Builds:
Filter for builds:
TeamTest-Lab26VSTS
Build in use:
21017.00
Modify
Configurations:
In this plan:
Default configuration created @ 09/25/2009 09:07:40 - 1
Results Overview
Tests
317 Passed (88.5%)
24 Failed (6.7%)
15 Active (4.2%)
2 Blocked (0.6%)
Failures by Type
26 None (100%)
Test Analysis by Type
26 None (100%)

Build Quality Indicators



Requirements Overview



Requirements Overview

Helps you track how far each requirement has been implemented. Shows each requirement's actual number of hours of work remaining and completed, its acceptance test results, and the number of bugs that are linked to each requirement.

Related Reports

- Bug Status
- Status on All Iterations
- Requirements Progress
- Test Case Readiness
- Test Plan Progress

Hours Completed
Hours Remaining
Passed
Failed
Not Run
Active
Resolved

	Requirements Progress		Test Status		
Title	% Hours Completed	Hours Remaining	Tests	Test Results	Bugs
Account management for bank customers	38%	5	8	88%	2 2
Authentication and authenticity		0	0		
Initiate a money transfer	25%	3	0		
Login to personal account	25%	0	4	25% 75%	
Print bank statement	50%	0	0		
Withdraw cash from ATM	50%	2	4	100%	
Check Account		0	0		
Debit Account		0	0		
Email alert on maintenance demands		0	0		
Extended Functions	50%	0	2	50% 50%	
Provide bank customers an easy to use experience managing their account	50%	0	1	100%	
Provide more personal service by having to handle less everyday tasks		0	1		
Usage statistics		0	0		

Questions This Report Helps Answer

- How much work does each requirement need?
- How much work has the team completed for each requirement?
- Are the tests for each requirement passing?
- How many active bugs does each requirement have?

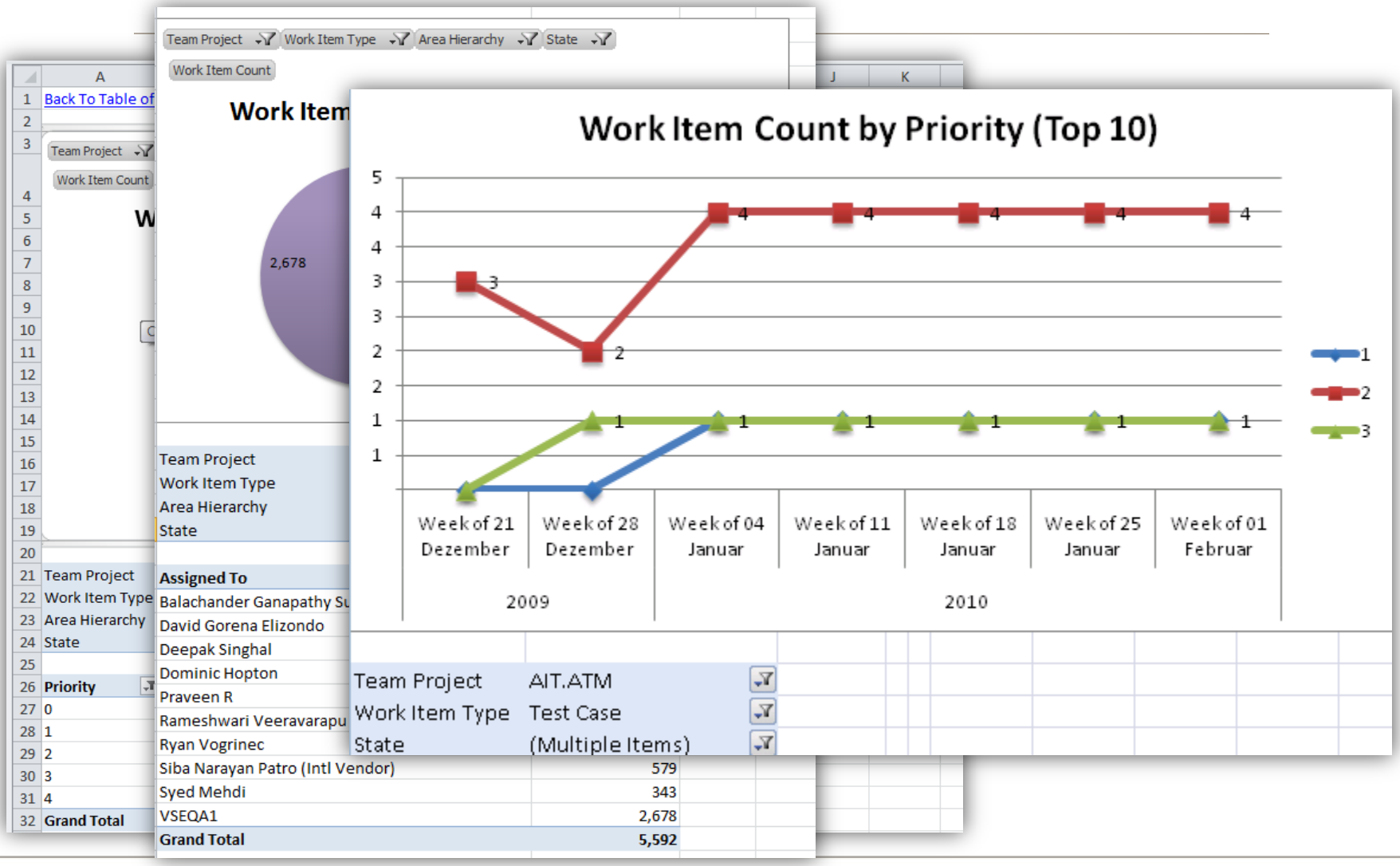
How to Use This Report

Parameter Values

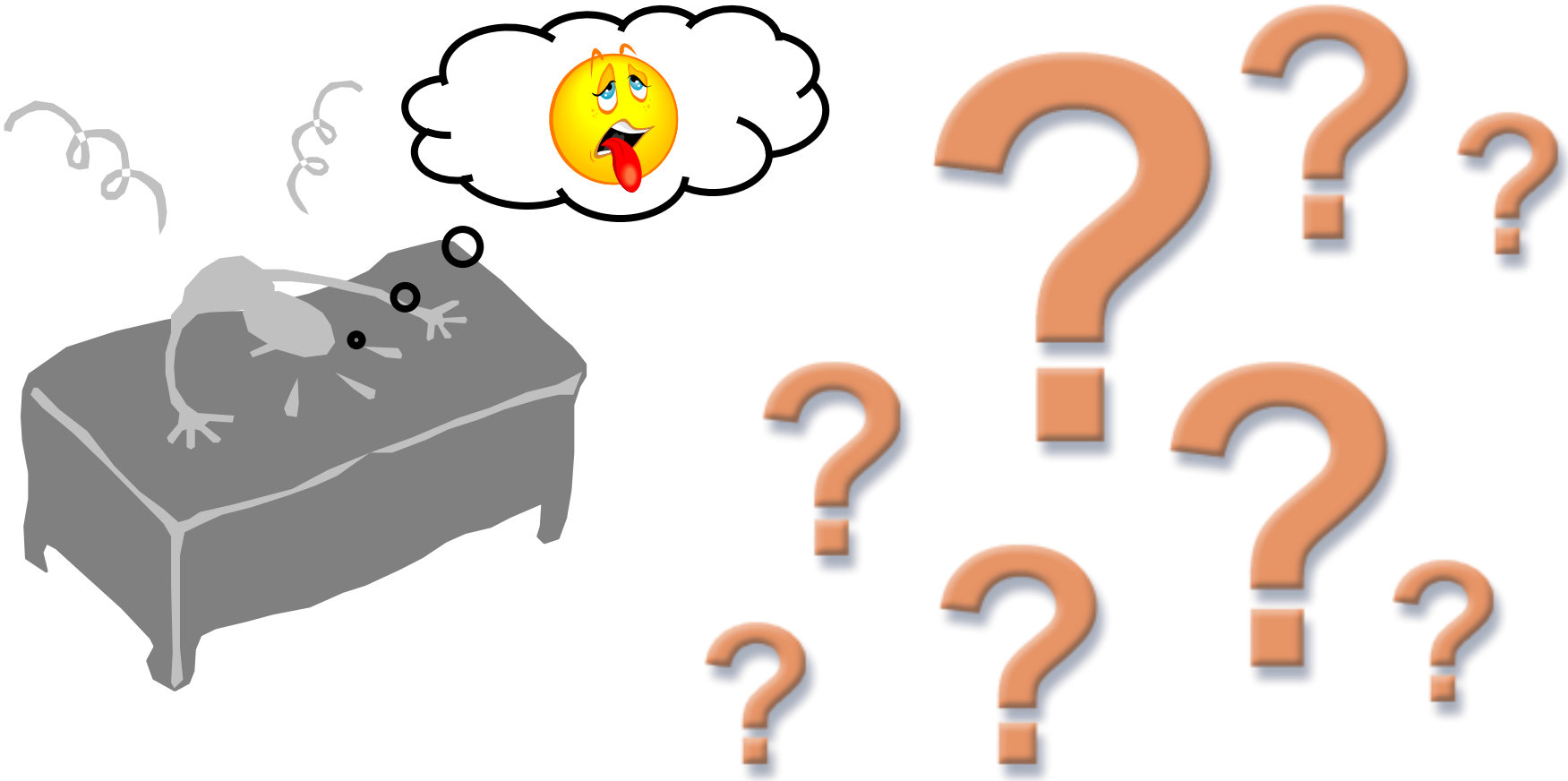
Iteration: All (No Filter)
Area: All (No Filter)

Generated: 16.02.2010 11:17:40
By: TFS2010\Administrator
Warehouse Update: 16.02.2010 11:17:24

One Click reports – Team Test

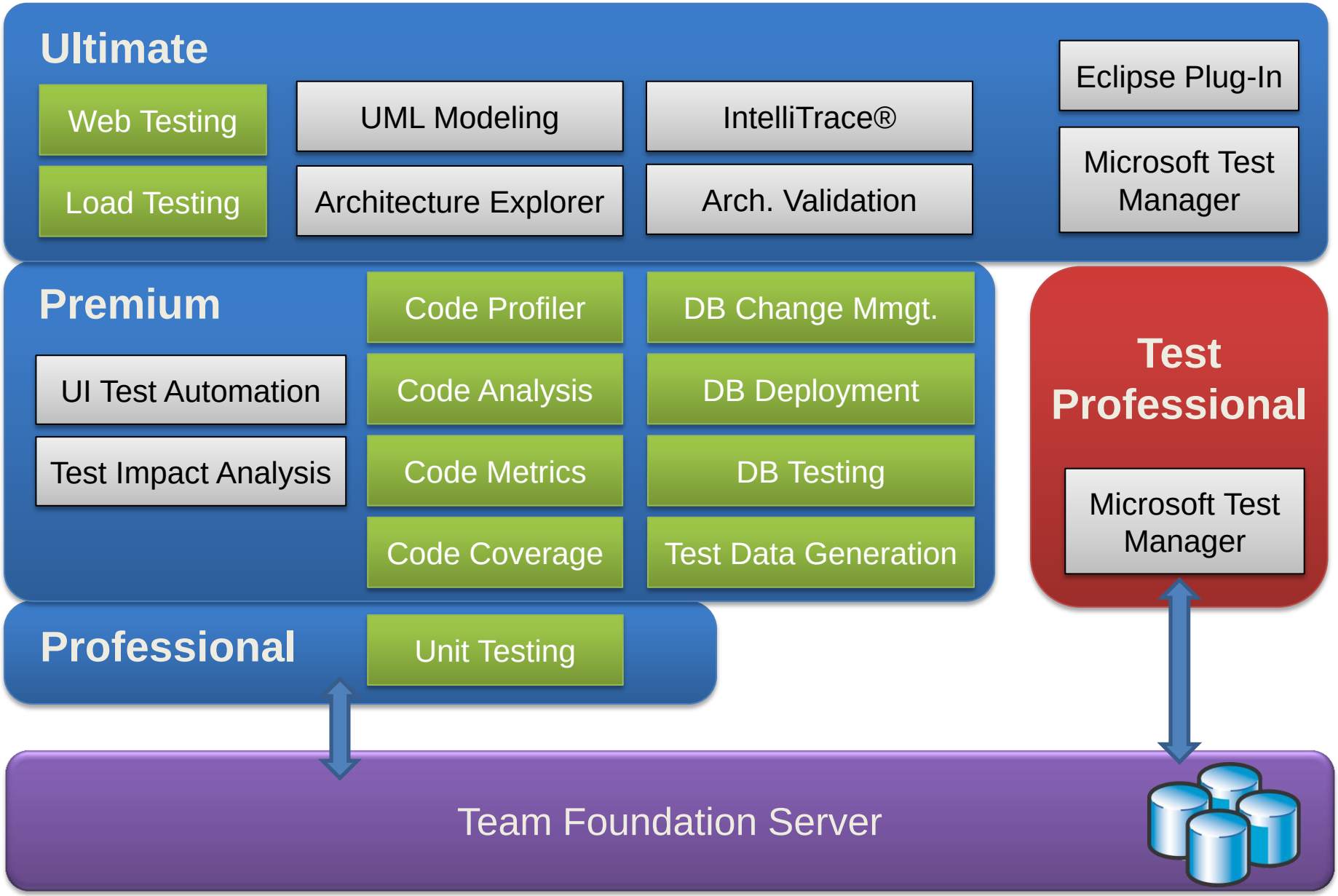


Danke für Ihre Aufmerksamkeit!

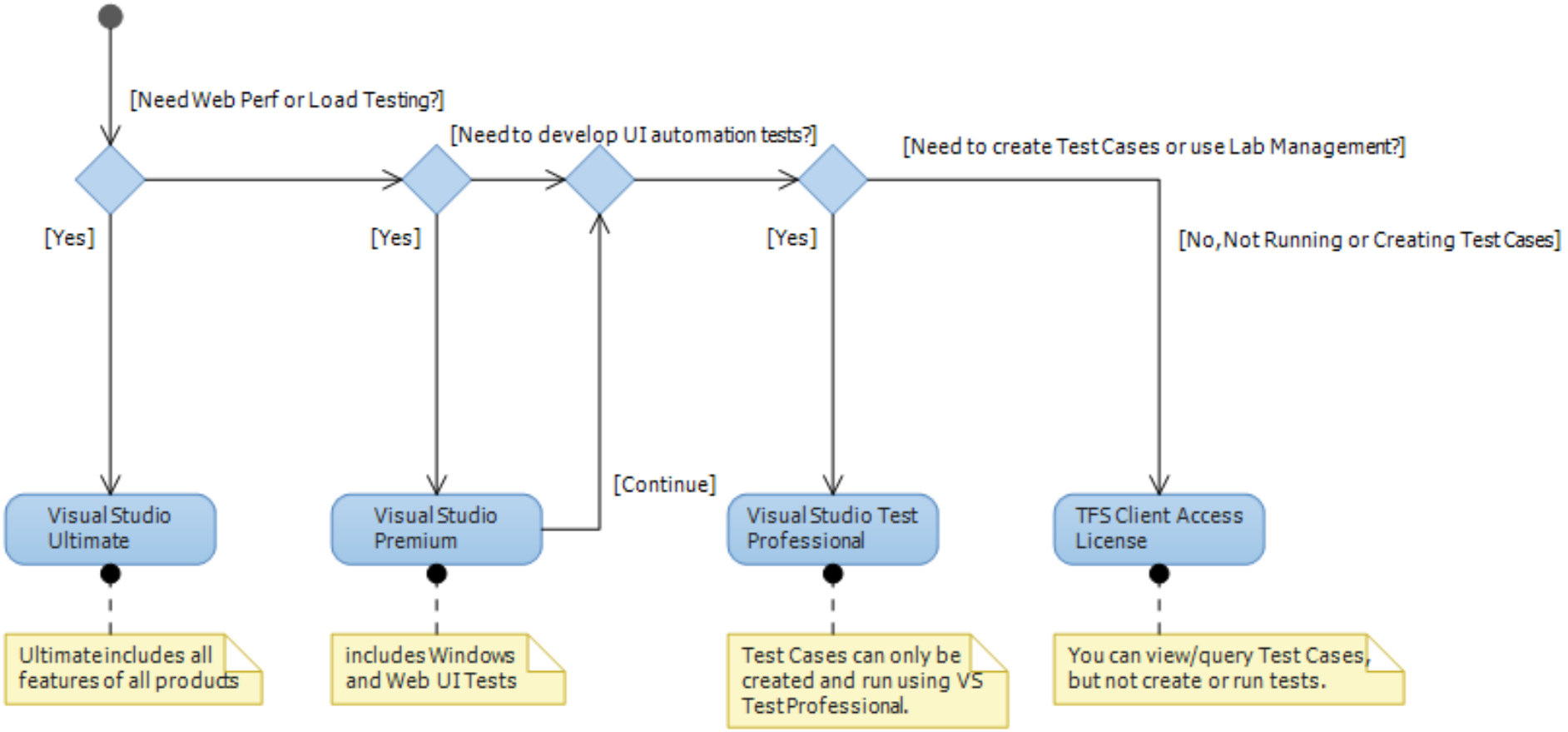


Im Anschluss oder per E-Mail an:
neno.loje@teamsystempro.de

Visual Studio 2010



Welche Testlizenz brauche ich?



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