

Восьмая независимая
научно-практическая конференция
«Разработка ПО 2012»

1 - 2 ноября, Москва



Командная разработка приложений с Visual Studio 2012

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Microsoft

Application Lifecycle Management

Управление

Требования
Модели, макеты
Задачи и ресурсы
Отчёты

Разработка

Единая среда
Версии и ветки
Сборки
Установка

Качество

Тестирование
Анализ кода
Нагрузка
Ревью кода



Инциденты

TFS WebAccess
System Center

Диагностика

IntelliTrace
PreEmptive
SCOM

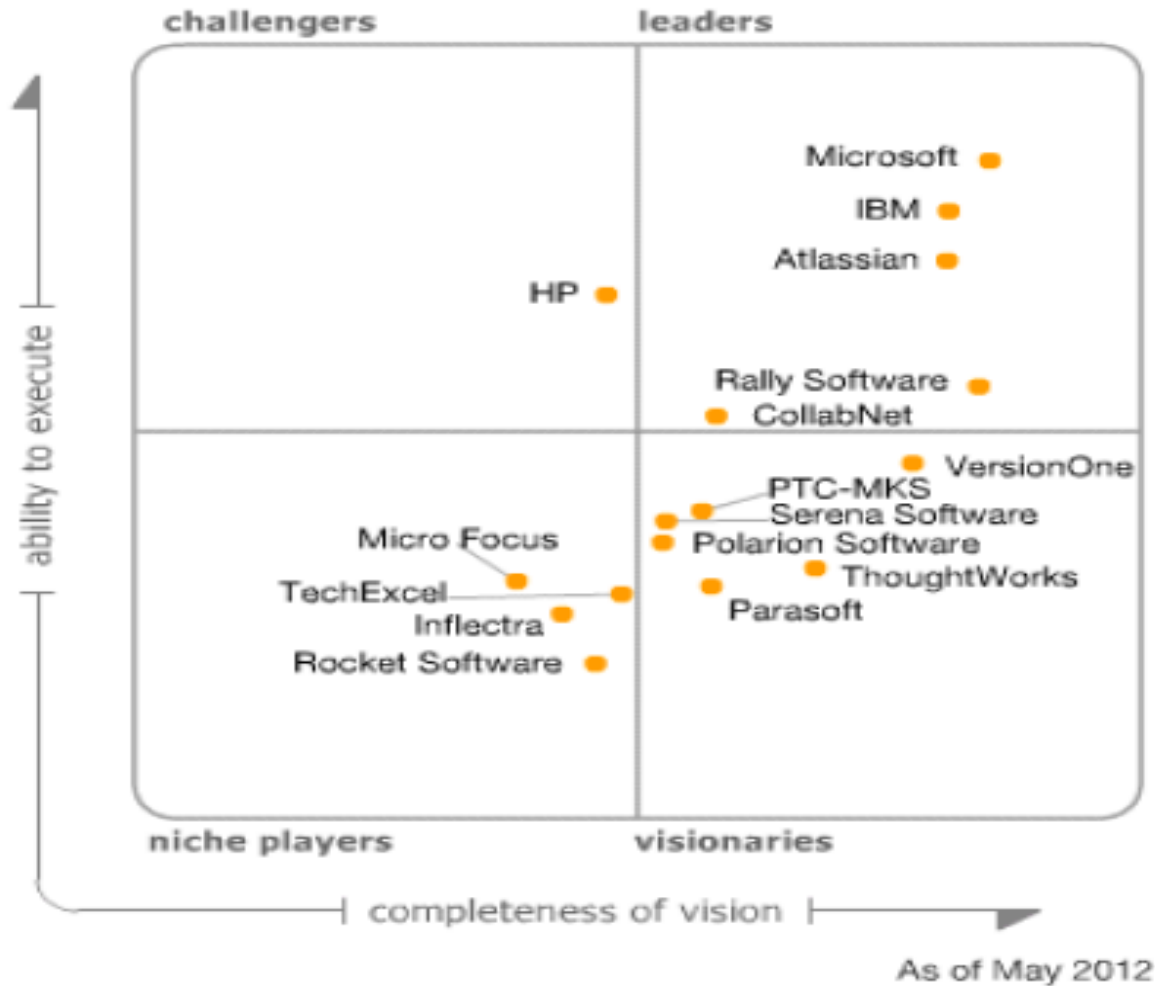
Обратная

связь

Отзывы
Портал

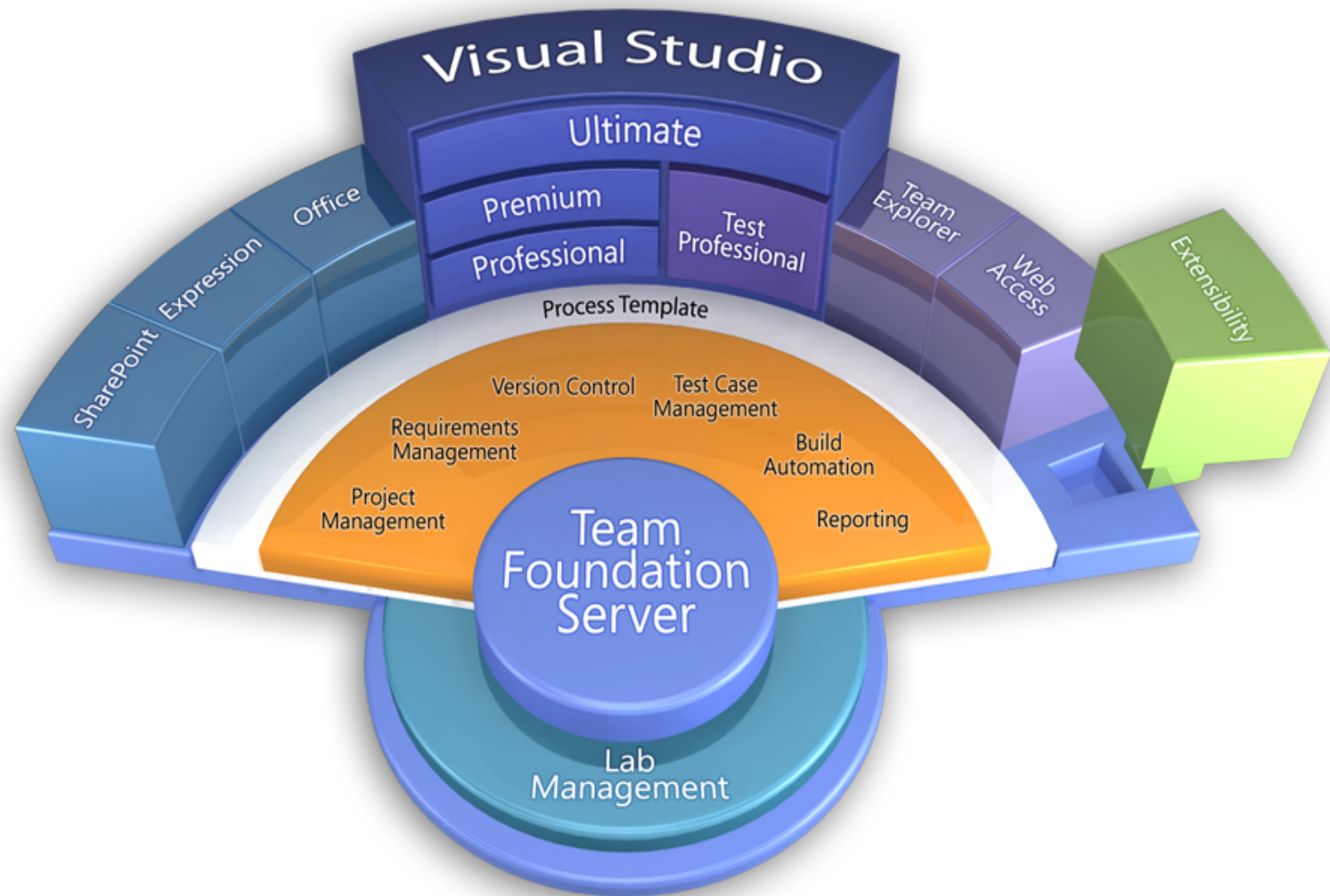
Magic Quadrant

Figure 1. Magic Quadrant for Application Life Cycle Management

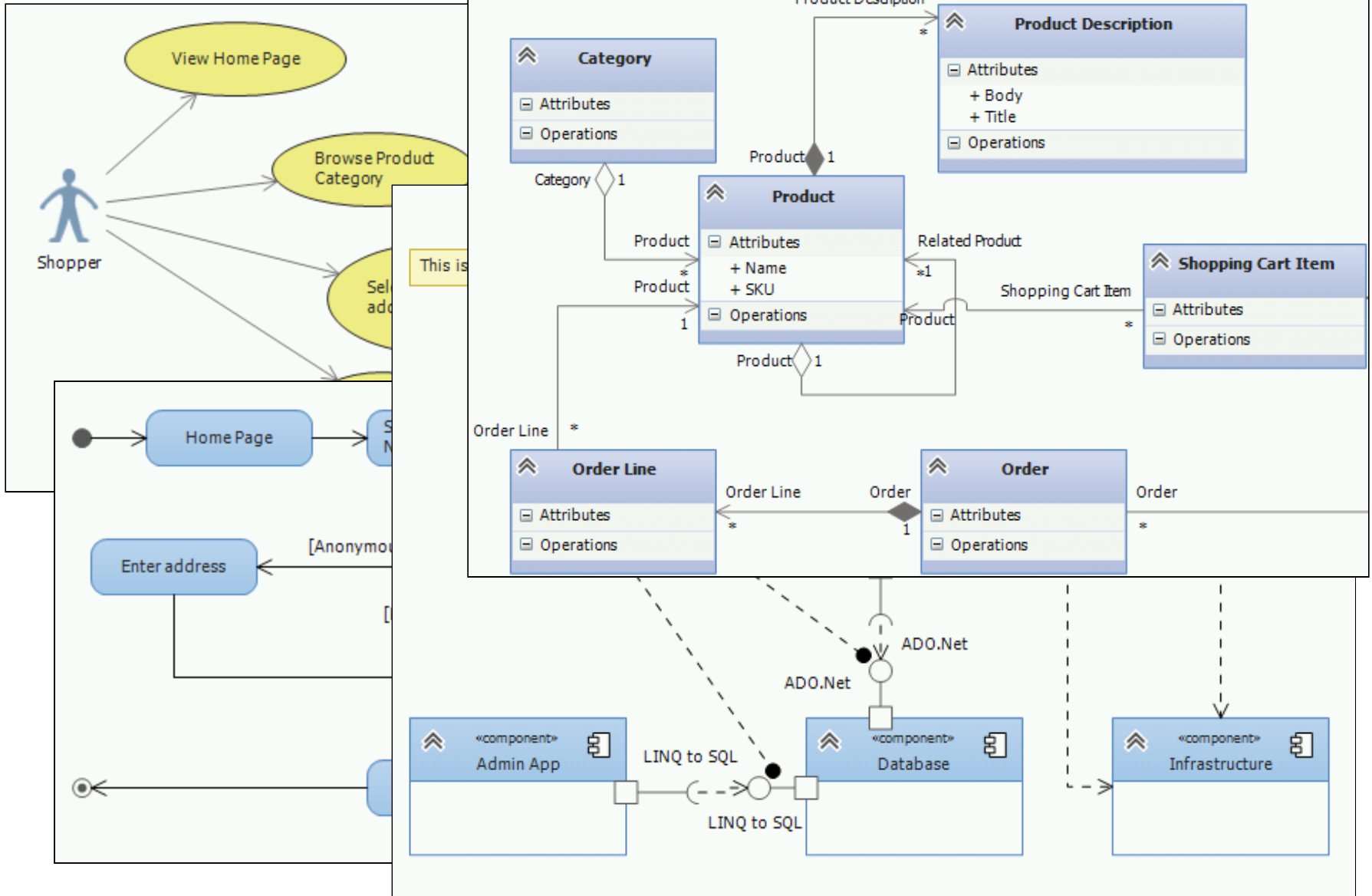


Source: Gartner (June 2012)

Инструменты Microsoft ALM



UML-диаграммы



Storyboarding - макетирование

Макет

Ссылки
на TFS

Сбор
ОТЗЫВОВ

The screenshot displays the Microsoft PowerPoint Storyboarding interface. The main window shows a web browser mockup of the 'Fabrikam Fiber' website. The browser address bar contains the URL '://sites//fabrikamfiber.aspx'. The website content includes a navigation menu with 'Dashboard', 'Tickets', 'Messages', 'Customers', 'Employees', 'Reports', and 'About'. A 'Welcome Drew Robbins' message is visible. The 'Profile' section shows 'Drew Robbins' with 'Alerts: 5' and 'Tickets: 3', along with links for 'My Tickets', 'My Profile', and 'Schedule'. A 'Create' form is present with fields for 'First Name' (Maria), 'Last Name' (Anders), 'Street' (Sesame Street), 'City' (city), and 'Zip' (123), and a 'Create' button. The 'Storyboard Shapes' panel on the right lists 'My Shapes', 'Backgrounds', and 'Common' shapes, including a 'Button', 'Calendar', 'Checkbox (checked)', 'Checkbox (unchecked)', and 'Data Grid'. The PowerPoint ribbon includes 'File', 'Home', 'Insert', 'Design', 'Transitions', 'Animations', 'Slide Show', 'Review', 'View', and 'Storyboarding'. The 'Storyboarding' tab is active, showing options for 'New Slide', 'Layout', 'Slide Master', 'Storyboard Shapes', 'Add to My Shapes', 'Update My Shape', 'Import Shapes', 'Export My Shapes', 'Screenshot', 'Picture', 'Hyperlink', 'Align Text', 'Arrange', 'Storyboard Links', and 'Storyboarding Help'. The status bar at the bottom indicates 'Slide 1 of 14', 'Web Browser', 'English (U.S.)', and a zoom level of 75%.

Демо: Управление проектом

- + Product Backlog Item
- + Task
- + Bug
- more ▾

Sprint 3
February 06 - February 17

53 of 36 h

Backlog items: 3 in progress

Burndown



TEAM FAVORITES

Feedback Requests 4 work items	Product Backlog 14 work items	Sprint Backlog 25 work items	All Bugs 4 work items
My Code Reviews 1 work items	Dev 5 recent changes	Nightly Fabrikam (Dev) Completed 3 days ago ✓ build definition	

ACTIVITIES

- [View backlog](#)
- [View board](#)
- [View work items](#)
- [Request feedback](#)
- [Go to project portal](#)
- [View process guidance](#)
- [View reports](#)

MEMBERS (4)

- Annie Herriman
- Brian Keller
- Cameron Skinner
- Julia Ilyiana

[Manage members...](#)

ADMINISTRATION

- [Configure schedule and iterations...](#)
- [Configure work areas...](#)

Контроль архитектуры - Диаграмма слоев

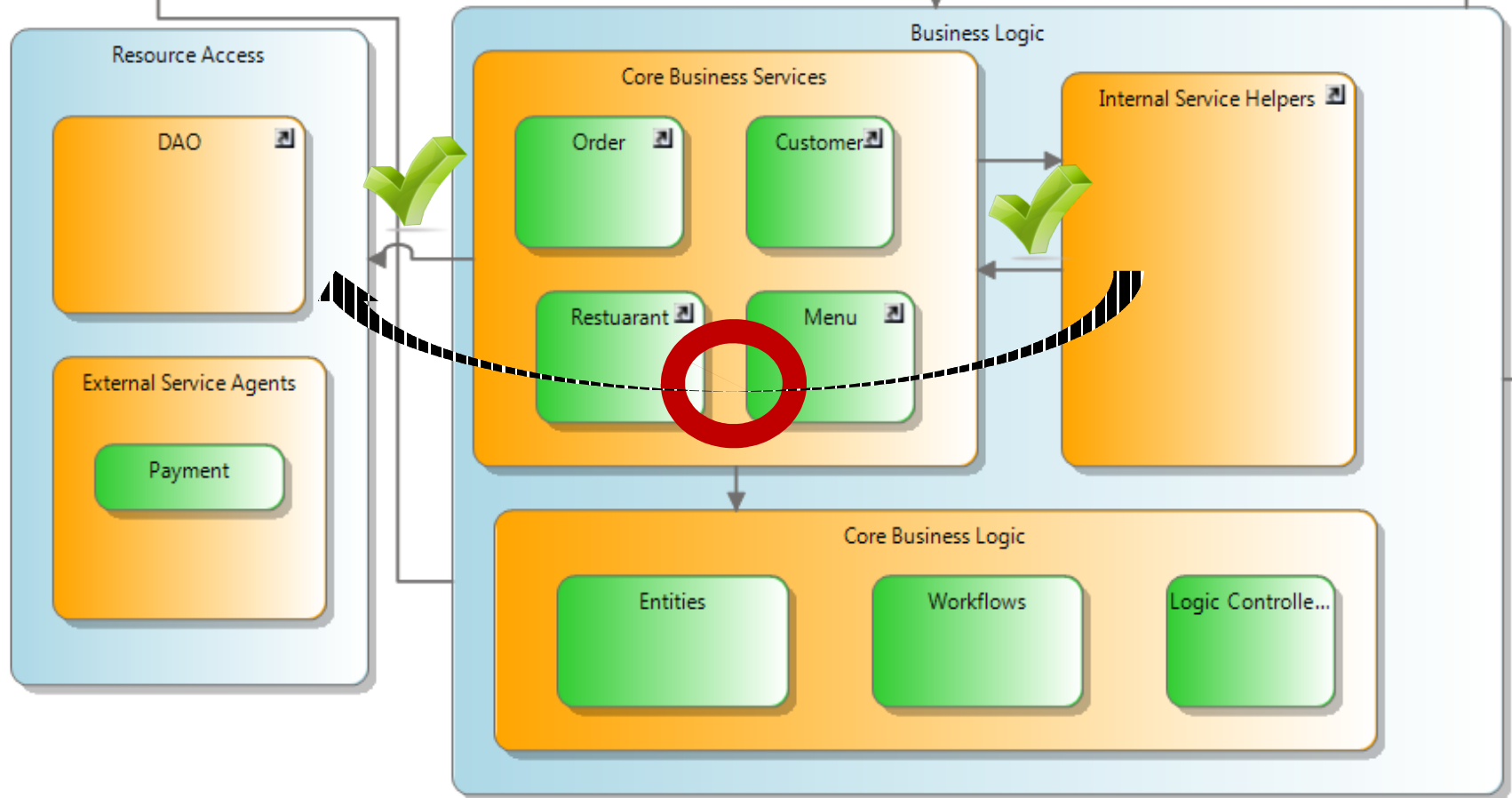
DinnerNow.layer

Build AllAnyCPU_20081123.1

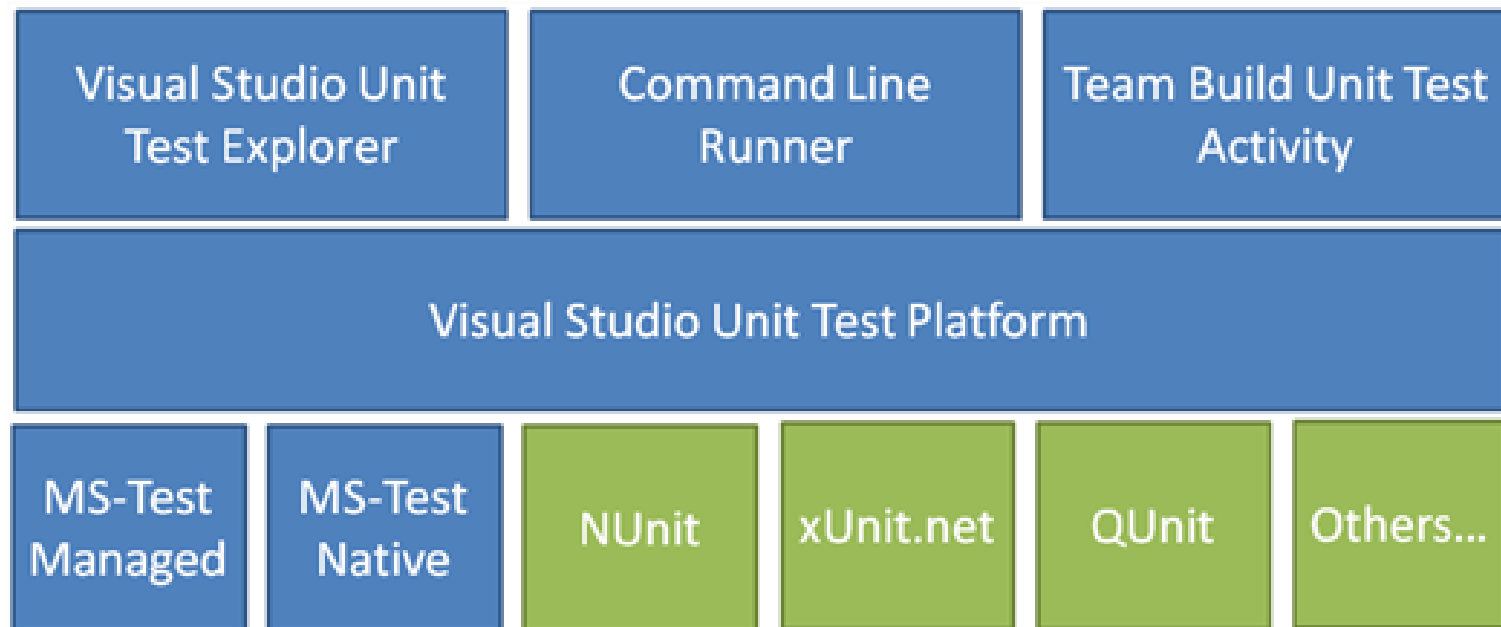
Build Explorer - DinnerNow

PaymentService.cs

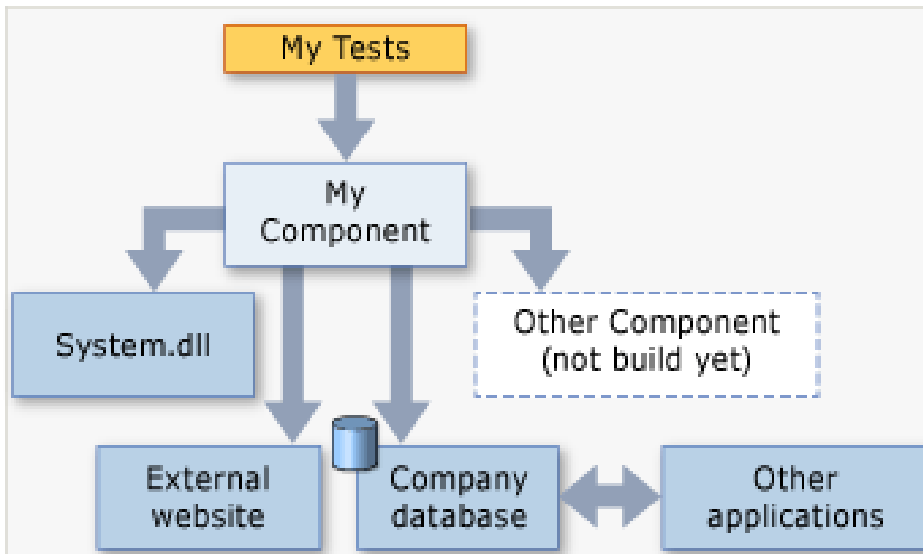
Bug 268



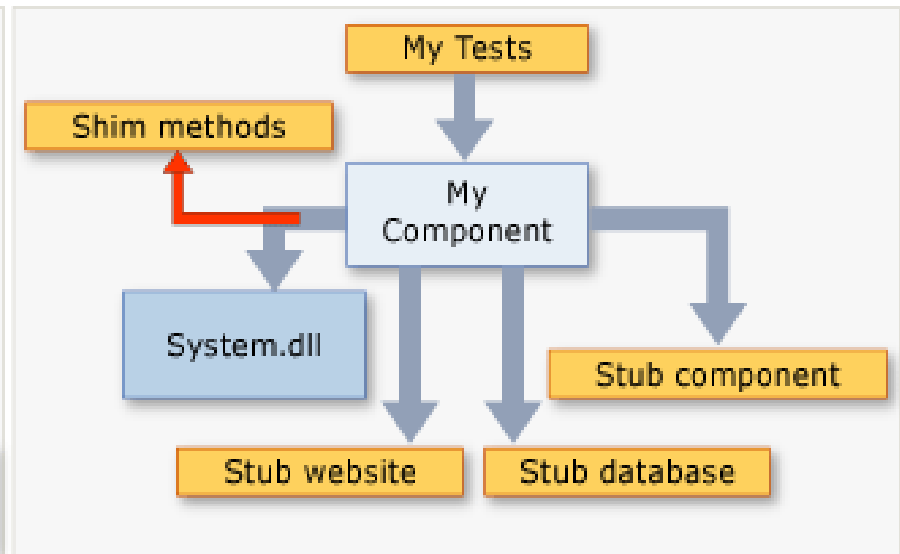
Платформа юнит-тестирования



Изоляция кода (Fakes Framework)



Deployed component depends on external parts that are incomplete or exhibit variable behavior.



Component isolated for testing. The stubs and shims work under the control of the tests.

Exploratory Testing

Тестирование
без сценария

Сбор
отладочной
информации

Создание
TestCase

The screenshot shows the 'Do Exploratory Testing' window in the Microsoft Test Center. The window title is 'Do Exploratory Testing'. Below the title bar, there are navigation buttons: 'Explore', 'Open', and 'Explore selected work items'. The main content area contains a table of work items. The table has the following columns: ID, Title, Assigned To, State, and Area Path. The table contains 15 rows of work items, with item 7 selected.

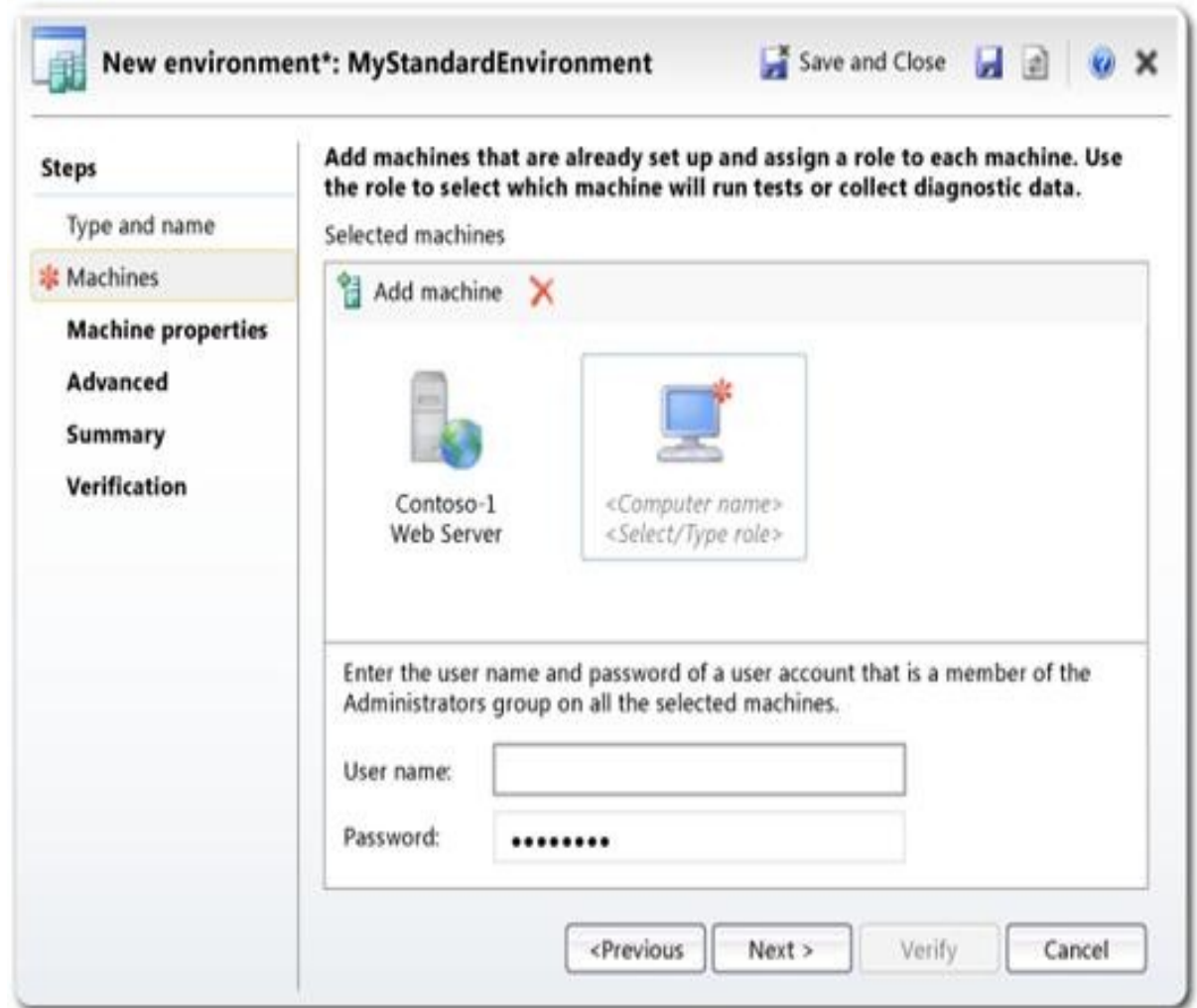
ID	Title	Assigned To	State	Area Path
1	Customer can find the nearest Fabrikam Fibe...	Brian Keller	Done	FabrikamFiber
2	Customer can look up television lineup online.	Brian Keller	Done	FabrikamFiber
3	Customer can sign up for emails about servi...	Brian Keller	Done	FabrikamFiber
4	Customer can see upcoming appointments.	Brian Keller	Done	FabrikamFiber
5	Customer can sign in using Facebook accou...	Brian Keller	Done	FabrikamFiber
6	Customer can become a Fan of Fabrikam Fib...	Brian Keller	Done	FabrikamFiber
7	Customer can reschedule appointments.	Brian Keller	Done	FabrikamFiber
8	Customer can sign in using Windows Live ID.	Brian Keller	Done	FabrikamFiber
9	Technician can see service tickets on Windo...	Brian Keller	Done	FabrikamFiber
10	Technician can report busy/late on Windows...	Brian Keller	Done	FabrikamFiber
11	Technician can send GPS location from Win...	Brian Keller	Committed	FabrikamFiber
12	Customers with Canadian addresses not disp...	Brian Keller	Committed	FabrikamFiber
13	Technican can edit customer contact details...	Brian Keller	Committed	FabrikamFiber
14	Service rep can view service ticket details fro...	Brian Keller	New	FabrikamFiber
15	Technican can check on parts orders on Win...	Brian Keller	New	FabrikamFiber

Standard Environment в VS 2012

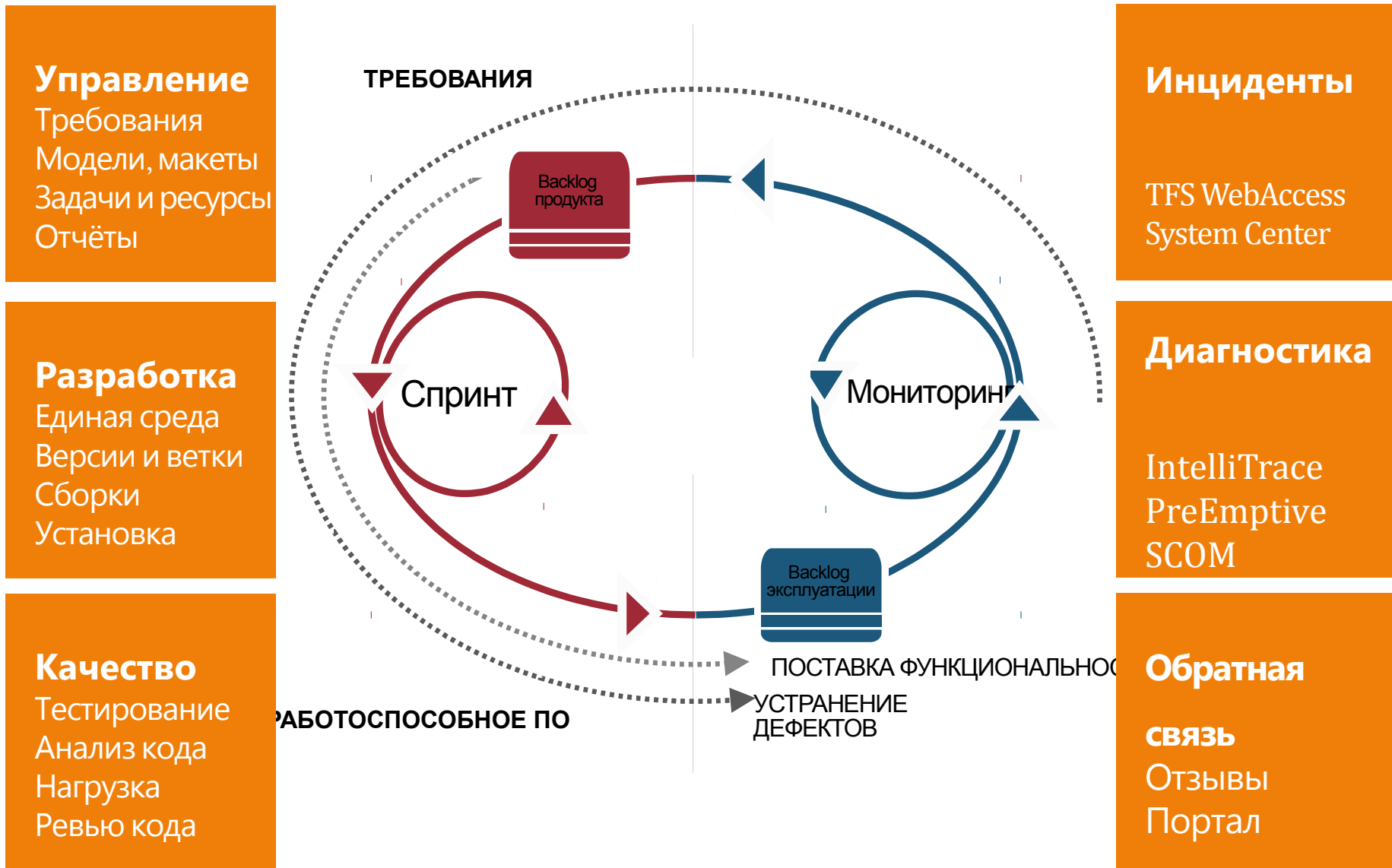
Не нужен
SC VMM

Простота
настройки

WMWare
VirtualBox
Физически



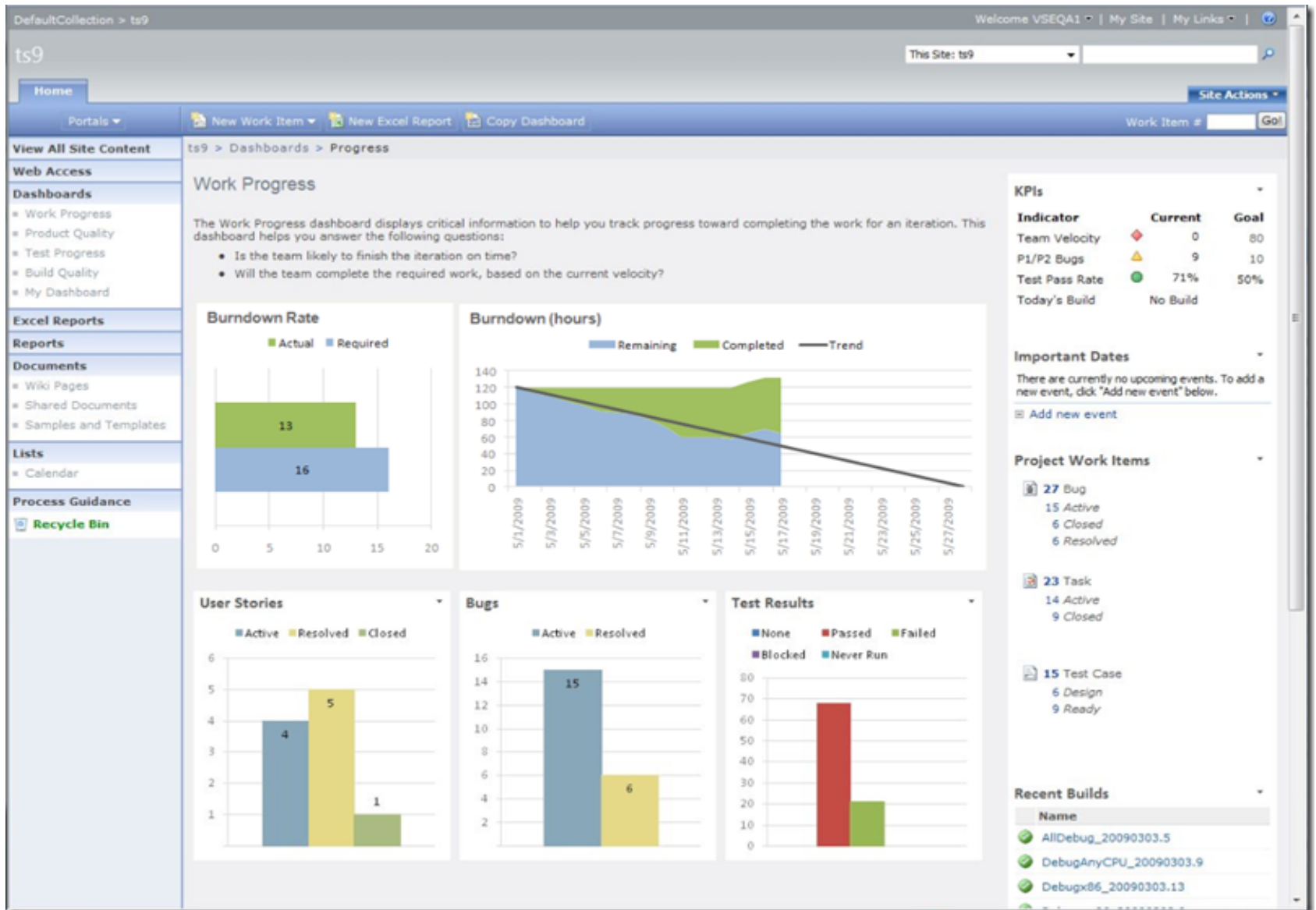
Application Lifecycle Management



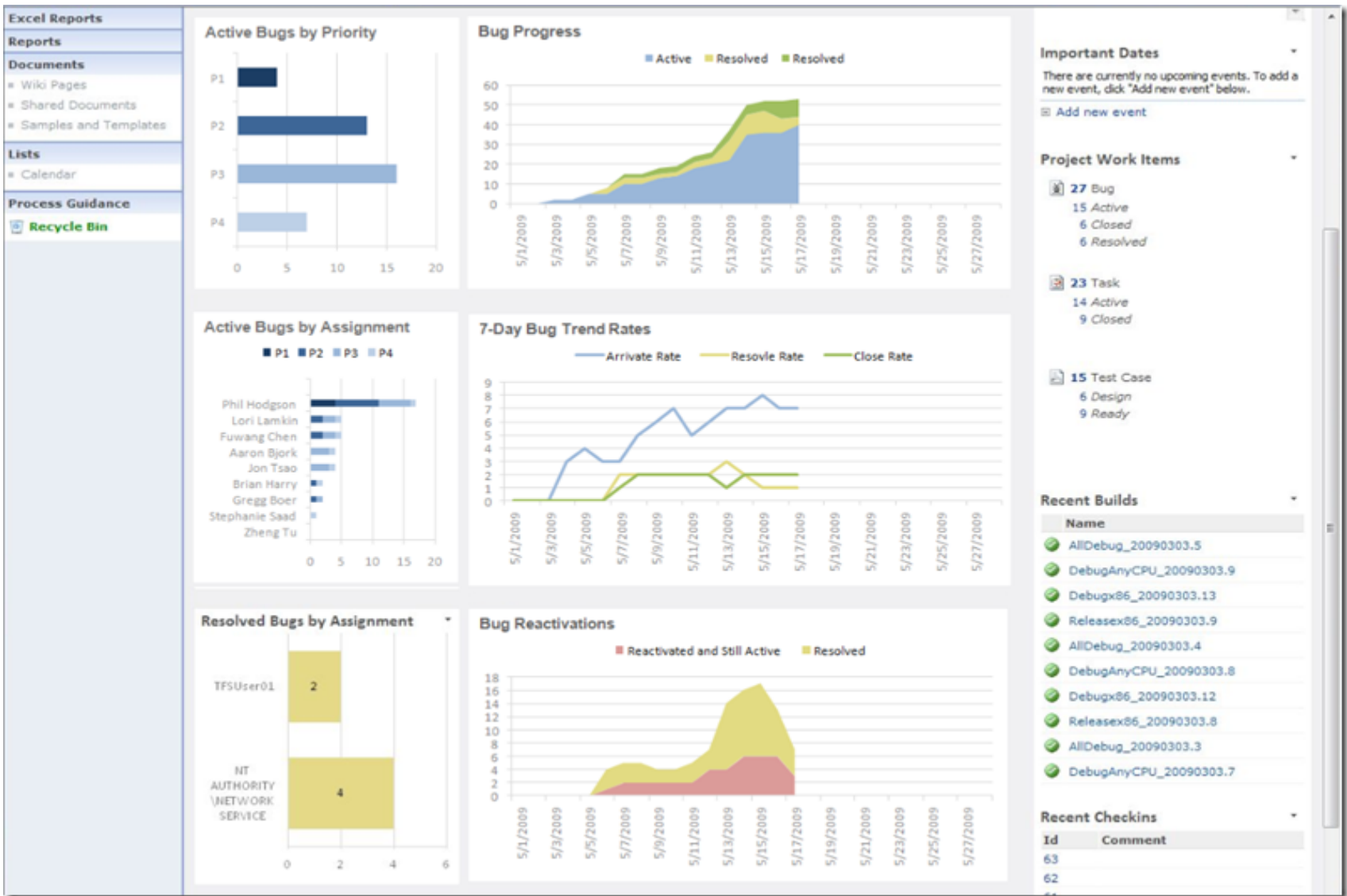
Отчёты

- Текущее состояние проекта
- Динамика проекта
- Метрики

Work Progress



Product Quality



Test Progress

DefaultCollection > ts9 Welcome VSEQA1 | My Site | My Links

ts9 This Site: ts9

Home Site Actions

Portals New Work Item | New Excel Report | Copy Dashboard

Work Item #

View All Site Content ts9 > Dashboards > Test

Web Access

Dashboards

- Work Progress
- Product Quality
- Test Progress
- Build Quality
- My Dashboard

Excel Reports

Reports

Documents

- Wiki Pages
- Shared Documents
- Samples and Templates

Lists

- Calendar

Process Guidance

- Recycle Bin

Test Progress

The Test Progress Dashboard provides an overview of the readiness of the test team and the progress on the testing of the product. This dashboard helps you answer the following questions:

- How many test cases are ready to be run?
- How many tests need to be run?

Test Plan Progress

Legend: Never Run, Blocked, Failed, Passed

Test Case Readiness

Legend: Design, Ready

User Stories without Test Cases

Query Results: 0 results found (0 top level, 0 linked items, 0 currently selected).

ID	Title	State

KPIs

Indicator	Current	Goal
Team Velocity	0	80
P1/P2 Bugs	9	10
Test Pass Rate	71%	50%
Today's Build	No Build	

Recent Builds

Name
AllDebug_20090303.5
DebugAnyCPU_20090303.9
Debugx86_20090303.13
Releasex86_20090303.9
AllDebug_20090303.4
DebugAnyCPU_20090303.8
Debugx86_20090303.12
Releasex86_20090303.8
AllDebug_20090303.3
DebugAnyCPU_20090303.7

Recent Checkins

Id	Comment
63	
62	
61	
60	
59	

Stories Overview

Stories Overview

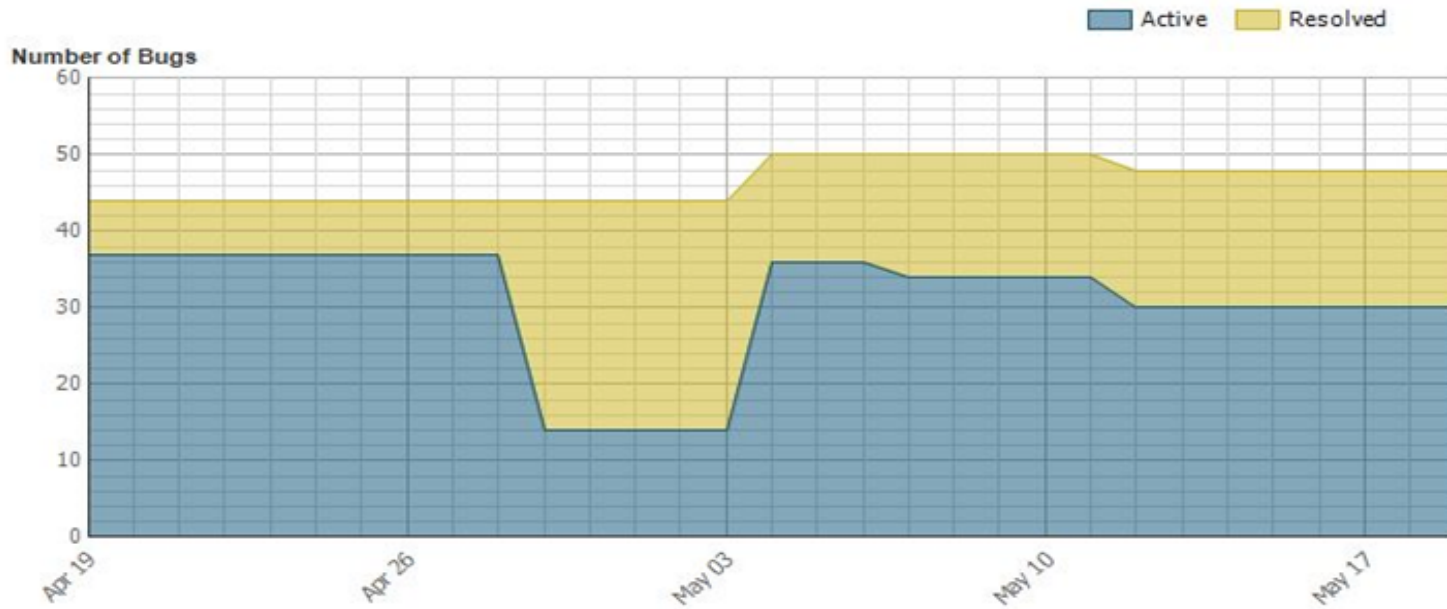
Helps you track how far each user story has been implemented. Shows each story's actual number of hours of work remaining and completed, its acceptance test results, and the number of bugs that are linked to each story.

Related Reports

- [Bug Status](#)
- [Status on All Iterations](#)
- [Stories Progress](#)
- [Test Case Readiness](#)
- [Test Plan Progress](#)

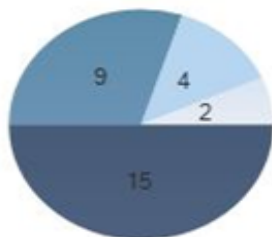
Title	Work Progress		Hours Remaining	Test Status			
	% Hours Completed	Hours Remaining		Tests	Test Results	Bugs	
As a new customer, I want to order a meal.	<div style="width: 79%;">Completed</div> 79 %	12	3	<div style="width: 22%;">Failed</div> 22 %	<div style="width: 62%;">Passed</div> 62 %	<div style="width: 100%;">Resolved</div> 1	<div style="width: 100%;">Active</div> 2
As a new customer, I want to get an idea of what Dinnerflow offers with a brief glance at the web site.	<div style="width: 56%;">Completed</div> 56 %	11	0			<div style="width: 100%;">Resolved</div> 6	
As a customer who has completed an order, I want Dinnerflow to keep track of my meal preferences so that I can order the meal that I want more quickly in the future.	<div style="width: 100%;">Completed</div> 100 %	0	2	<div style="width: 31%;">Failed</div> 31 %	<div style="width: 69%;">Passed</div> 69 %	<div style="width: 100%;">Resolved</div> 2	<div style="width: 100%;">Active</div> 1
As a returning customer, I want to order one of the meals that I've recently ordered.	<div style="width: 81%;">Completed</div> 81 %	7	2	<div style="width: 31%;">Failed</div> 31 %	<div style="width: 69%;">Passed</div> 69 %		
As a new customer, I want to choose a meal from a specific provider.	<div style="width: 60%;">Completed</div> 60 %	2	0				
As a meal provider, I want to display photos and information about each of my meals so that I can distinguish them from other meal providers.	<div style="width: 0%;">Completed</div> 0 %	10	0				
As a meal provider that is a restaurant, I want my meals to link to my restaurant's web page to help attract in-person business.	<div style="width: 0%;">Completed</div> 0 %	0	0				
As an event planner, I want to let participants in my event choose meals from Dinnerflow.	<div style="width: 0%;">Completed</div> 0 %	0	0				
As an event planner, I want to filter the menu to meet my constraints so that I can control the cost of the meals.	<div style="width: 0%;">Completed</div> 0 %	0	0				

Bugs



Priority: 1 (Dark Blue), 2 (Medium Blue), 3 (Light Blue), 4 (Very Light Blue)

Active Bugs by Priority



Active Bugs by Assignment

Resolved Bugs by Assignment

Assignment	Active Bugs by Priority	Resolved Bugs by Priority
Jim Boyle	10 (P1), 3 (P2), 1 (P3), 1 (P4)	4 (P1)
Stephanie Saad	1 (P1), 1 (P2), 1 (P3), 1 (P4)	4 (P1)
Aaron Bjork	3 (P1), 2 (P2)	8 (P1)
Lori Lamkin	1 (P1), 1 (P3)	2 (P1)
Ram Cherala	2 (P1), 1 (P2)	
Unknown	1 (P1)	

ССЫЛКИ

- www.visualstudio.com/alm
- vs2012.ru