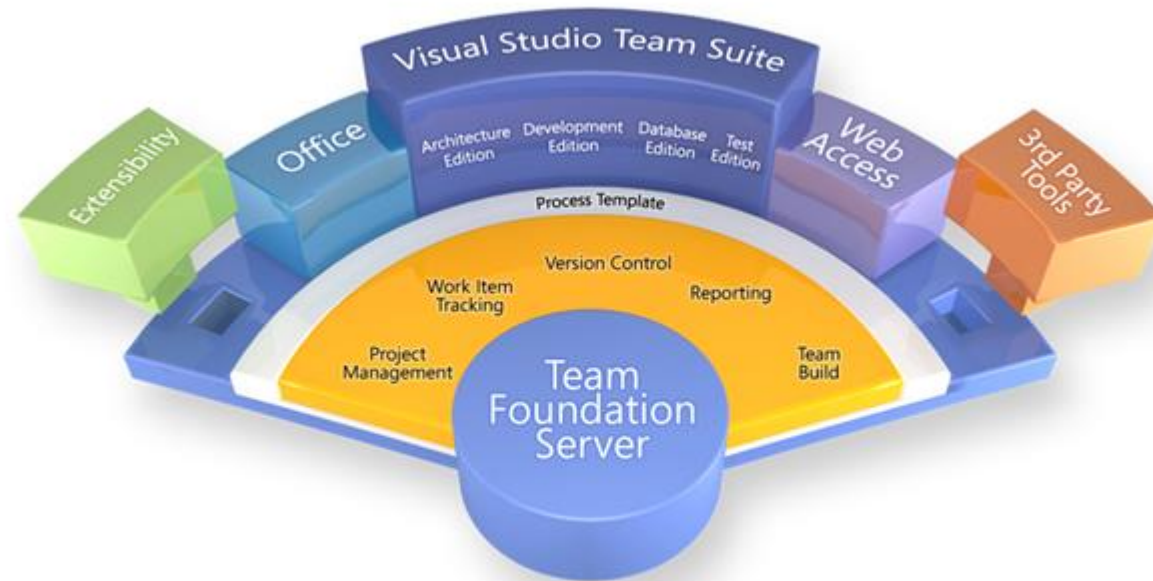


# DTMB Enterprise Visual Studio Team Foundation Server Service



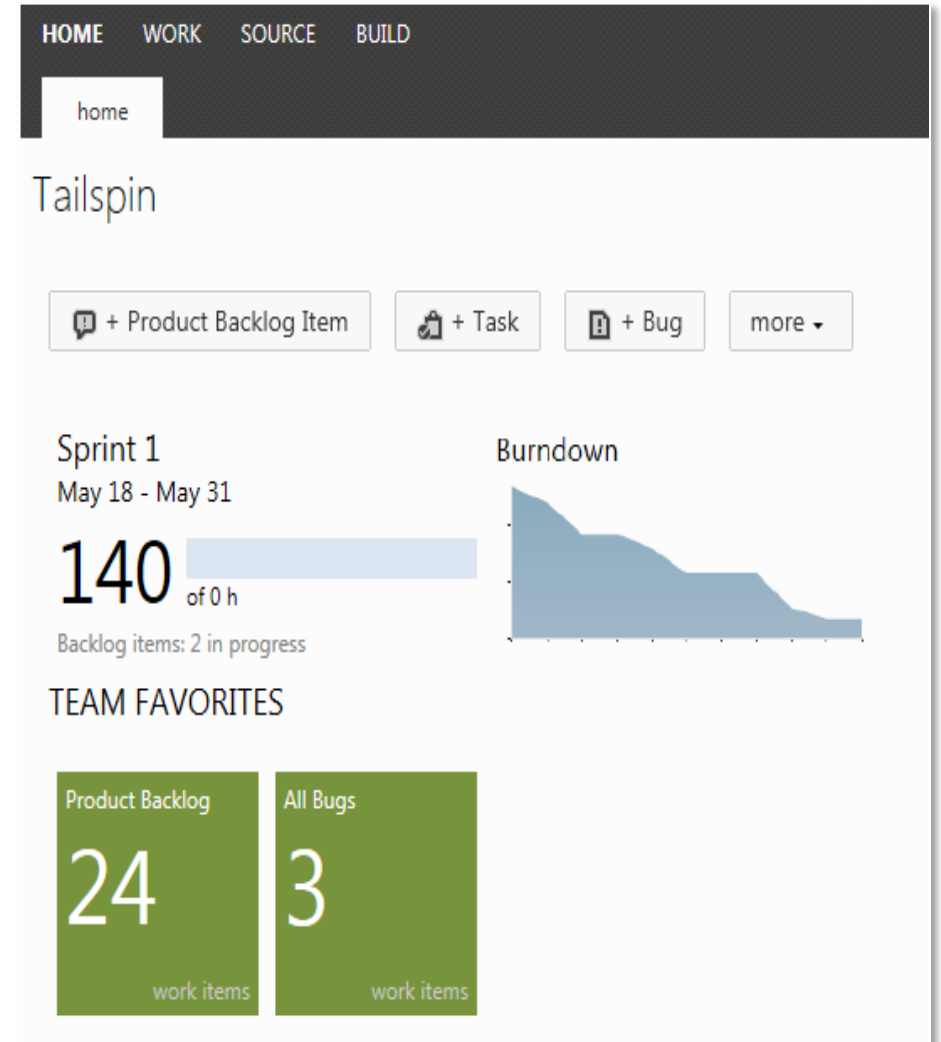
# Application Lifecycle Management

Application lifecycle management (ALM) is the product lifecycle management (governance, development, and maintenance) of application software.

It encompasses requirements management, software architecture, computer programming, software testing, software maintenance, change management, continuous integration, project management, and release management.

# Application Lifecycle Management - TFS

- Manage the backlog, sprints, and tasks using agile tools
- Engage stakeholders to provide feedback on pre-release software
- Track tasks through work items.
- Scrum, Agile, and CMMI project templates.
- Manage code and release.



# Source Control

- Check-in, checkout, manage versions, or use diff/merge to collaborate and maintain control of your team's projects.
- Work Item integration
- Customizable Check-in Experience through policies
- Shelving, code review, rollback.
- Changesets for change management.
- Branch and Merge for use to isolate risk.

# Work Items – Based on Template Type

- SCRUM – Product Backlog item, Bug, Task, Impediment, Test Case
- Agile – User Story, Task, Bug, Feature, Issue, Test Case
- CMMI – Requirement, Task, Bug, Change Request, Issue, Feature, Review, Risk, Test Case

# Work Items – Examples

New Product Backlog Item 3 - Source Control Explorer

Save Work Item

New Product Backlog Item 3 : Field 'Title' cannot be empty.

Tags [Add...](#)

<Enter title here>

Iteration MIPAGE

**STATUS**

Assigned To

State **New**

Reason [New backlog item](#)

**DETAILS**

Effort

Business Value

Area **MIPAGE**

Backlog Priority

**DESCRIPTION** STORYBOARDS TEST CASES TASKS

ACCEPTANCE CRITERIA HISTORY LINKS ATTACHMENTS

New Requirement 4 - Source Control Explorer

Save Work Item

New Requirement 4 : Field 'Title' cannot be empty.

Tags [Add...](#)

Title: <Required> Requirement Type: <Required>

**STATUS**

Assigned To: TFSADMIN

State: Proposed

Reason: New

**CLASSIFICATION**

Area: Office.CSSTP

Iteration: Office.CSSTP

**PLANNING**

Priority: 2 Triage: Pending Blocked: No Committed: No

**DETAILS** ANALYSIS IMPLEMENTATION CHANGE REQUESTS TEST CASES OTHER ALL LINKS ATTACHMENTS STORYBOARDS

Description:

History: Type your comment here.

# Team Web Access Board - Kanban

Visual Studio Online / Fabrikam Fiber | Andrew Clear | Settings | Help

HOME CODE **WORK** BUILD TEST\*

Search work items

Backlogs Queries

Backlog items

Backlog Board

Customize columns

New	Kerry approval	1/5 Approved	2/5 Committed	2/5 In pre-prod	3/5 In prod
Technician can submit invoices on Windows Phone. 16	Canadian addresses not displaying properly on the web 6	Service rep can view from the dashboard 9	Technician can check on parts/orders from Windows Phone 8 9	Technician can report busy/late on Windows Phone.	Technician can see service tickets on Windows Phone.
Customer can pay invoices online. 24		Technician can look for closest hardware store from Windows 3	Customers with Canadian addresses not displaying	Technician can send GPS location from Windows Phone.	
Customer can view service invoices online. 4				Technician can edit customer contact details on Windows	
Customer can opt-in/opt-out of paper billing. 8					

# Planning Tools

The screenshot displays a project planning interface with two main views: a Product Backlog and a Capacity Planning view.

**Product Backlog View:**

- Navigation tabs: backlog, board, work items. Search: Search work items...
- Product Backlog title and "contents" button.
- Item: "As a user, I want to be able to pick my icon" (forecast...)
- Buttons: Create Backlog Query, Column options.
- Type: Product Backlog Item
- Title: [Yellow highlight]
- Table with columns: Order, Title. Item 1: As a us...

**Capacity Planning View:**

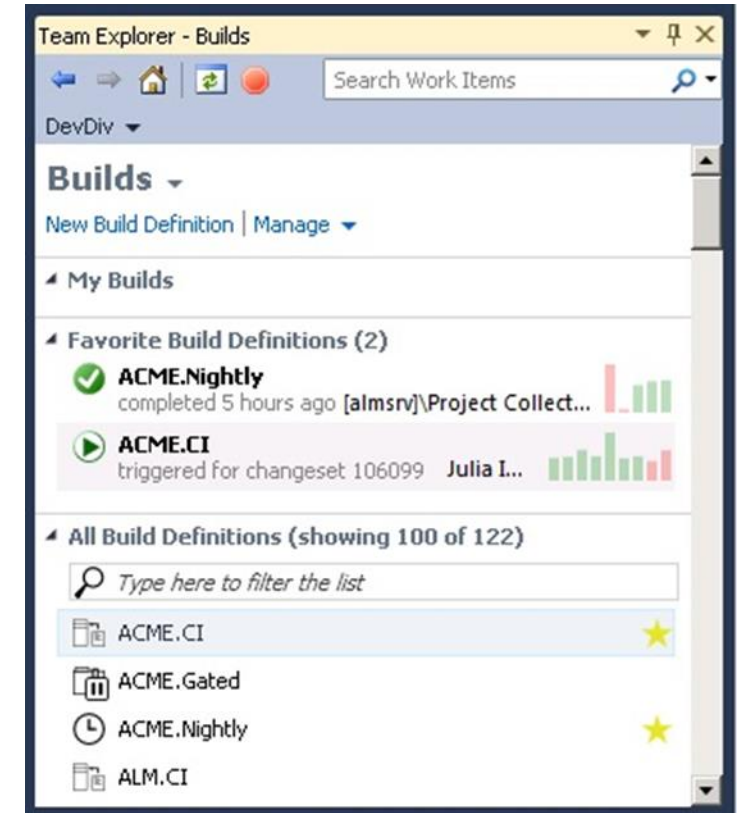
- Navigation tabs: contents, capacity, work details on.
- Summary: **WORK (25 OF 45 h)**
- Table with columns: Team Member, Capacity Per Day, Activity, Days Off.
- Buttons: Save Changes, Undo Changes.

Team Member	Capacity Per Day	Activity	Days Off
Adam Barr (Fabrikam)	5		0 days
Annie Herriman (Fabrikam)	0		0 days (+)
Julia Ilyina (Fabrikam)	5		0 days (+)
Peter Waxman (Fabrikam)	5		0 days (+)
Team Days Off			0 days



# Build

- Catch bugs and other quality issues in development.
- Continuous integration to validate code on clean configurations and integrate tests for extra assurance.
- Stay up to date on the latest build health.



# Test Case Management

- Author and execute test case reviews
- Create test suites to check against project requirements
- Conduct exploratory testing
- Clone test plans for new iterations
- Use Test Manager to execute test plans, record results, and get the status of current test plans.

# Test Case Management

Team Foundation Server 2012 / Tailspin Toys

HOME CODE WORK BUILD

Search work items

Test Plan Selection

Iteration 2 (Id: 2)

Test suite: 7: As a customer I should be able to remove items from my shopping ca... Count: 4

Requirement ID: 7

outcome All tester All test case pane off

New Run Column Options

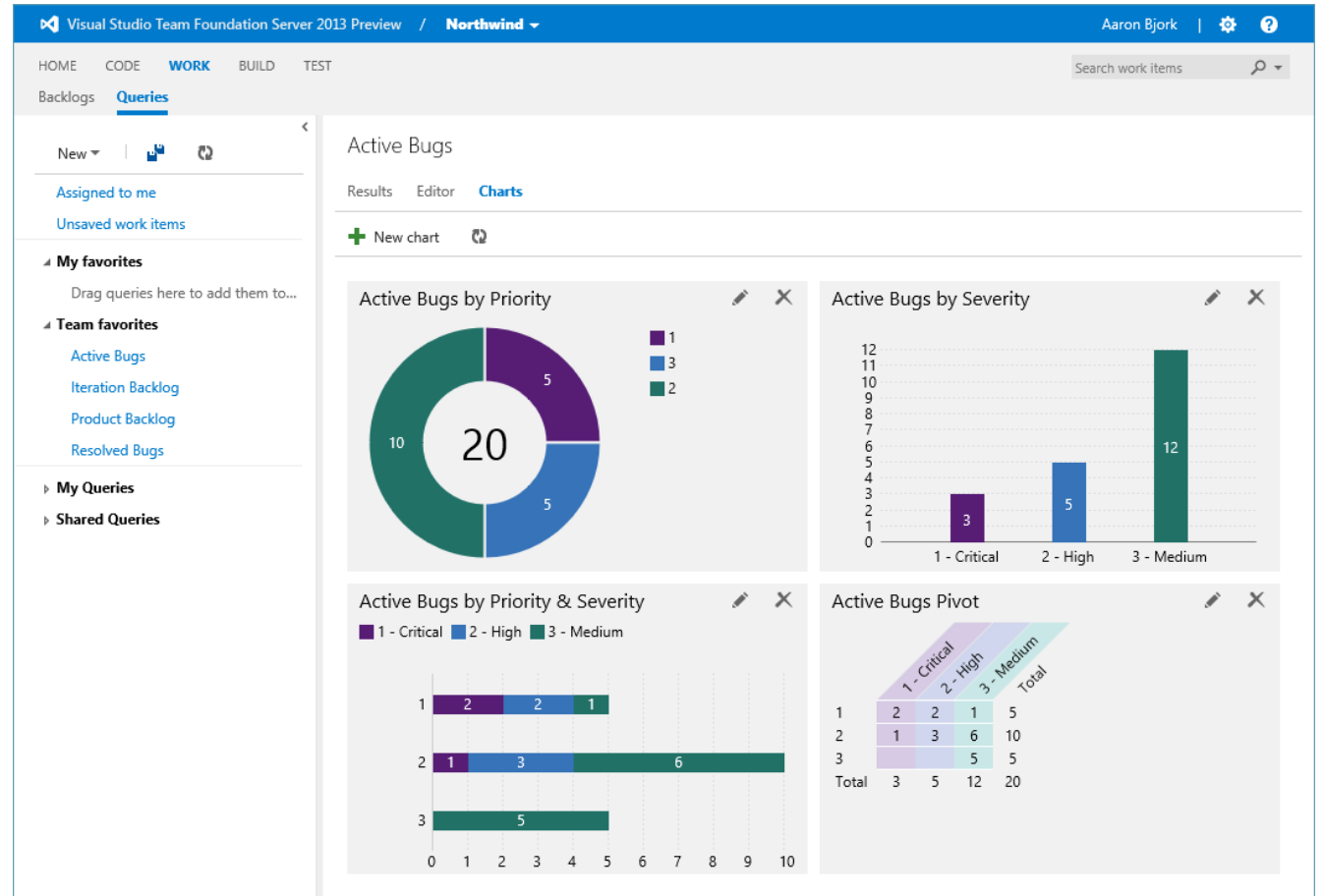
Outcome	ID	Title	Configuration	Tester
Passed	40	Customer can remove items from shopping cart by clicking "X" icon.	Windows Server 2008 and IE8	Adam Barr
Passed	40	Customer can remove items from shopping cart by clicking "X" icon.	Windows 7 and IE 8	Adam Barr
Failed	41	Entering invalid data in shopping cart quantity should not cause cart to update.	Windows Server 2008 and IE8	Colin Beales
Failed	41	Entering invalid data in shopping cart quantity should not cause cart to update.	Windows 7 and IE 8	Colin Beales

Test Suites

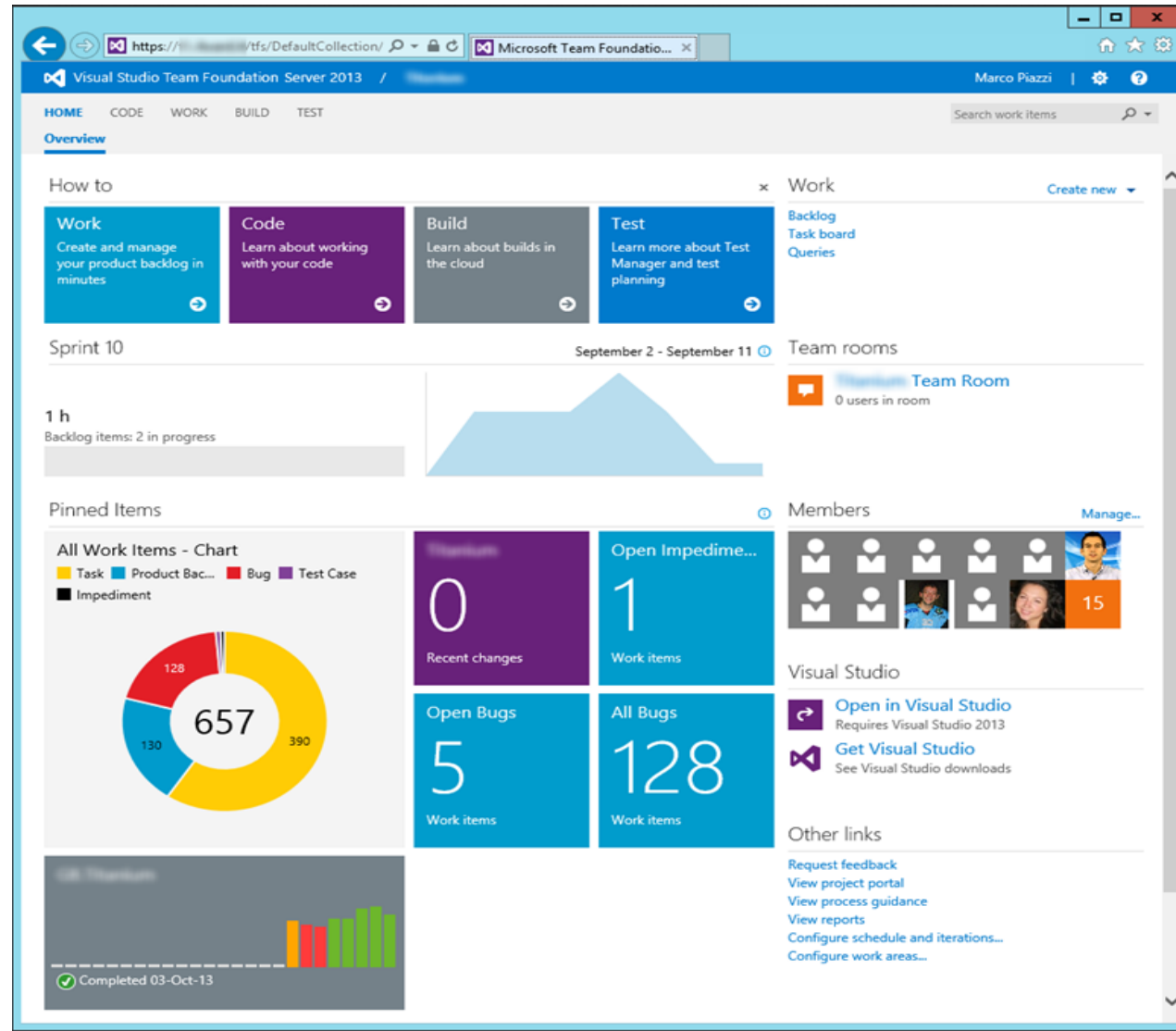
Test Points - One for each Test Case and Configuration

# Reporting

- Track work items using queries or Work Item favorites.
- Each process template has a host of out of the box reports.



# Web Access Dashboard



# Requirements

- Free access to web portal for all SOM employees. They are allowed to submit work items and check work items assigned to them.
- Visual Studio Pro with MSDN or a TFS CAL is required for Standard user access, which allows access to the board, work item queries, code, and reports.
- Visual Studio Test Pro and Ultimate is required for Full access to all features.
- Server required if agency wishes to use Build functionality.

- Release Management
- TFS 2015
- Increased Testing Functionality
- Application integration
- Central Build
- Azure



Questions?

