Micro Focus ALM/QC Integration with Automated Testing Tools for Reporting and Analysis - Americas

June 20, 2019

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Chris Trimper
Enterprise QA Automation Architect
Independent Health

Today's Speaker

Matt Angerer
Senior Value Stream Architect
Tasktop Technologies

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House Keeping

- This "LIVE" session is being recorded
  Recordings are available to all Vivit members

- Session Q&A:
  Please type questions in the Questions Pane

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Webinar Control Panel

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Questions ➡️

The Rise of Test Automation

- **Test Automation** is now a "must have"
  - Time to market considerations
  - The shift to agile and DevOps practices
  - Increasingly complex applications
- Test Automation has become a foundational aspect of the testing process
- Yet manual testing is still very much alive, with only **40-50%** of testing processes automated.
- The World Quality Report's key findings for 2018-2019 state that '*low levels of test automation*' are holding back quality assurance and testing teams.

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But How do We Get There?

- Key Recommendation from 2018-2019 Quality Report:
  - "Increase the level of basic and smart test automation, **but do so in a <u>smart</u>, phased manner.**"

- **Synonyms for 'smart' include:** *clever, bright, intelligent, sharp, sharp-witted, quick-witted, astute, acute, apt, and able.*
  - *Test Automation adoption involves: People, Process, and Technology*

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People, Process, Technology

- "… but do so in a **smart, phased manner**."

- PMOs, Project Managers, and Business Analysts are accustomed to ALM for reporting. **People** are invested in a specific manner of reporting for budgetary decision-making.

- Test **Process** for System, Integration, and UAT may be manual-intensive – but unit and regression test process has ample room for test automation.

- Automated Testing **Technology** paired with people and process engineering can help deliver in a 'smart' manner.

… but, what about your toolchain?

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The Impact on the IT Toolchain

– A new breed of test automation tools have flooded the market

– A mentality shift to using the tools that work best for the team appears to be the "smarter" choice for a variety of reasons.

- Including a combination of **both open source and commercial tools**

2016   **2019**

Add to that:

- **Offshoring or outsourcing** of some testing activities (e.g., Test Factories)
- Decades of mergers and acquisitions that have resulted in multiple instances and versions of tools

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How does this impact reporting?

With test planning, design, execution
and reporting split across multiple tools,
software delivery leaders have
lost visibility into coverage, quality and cost

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Sound Familiar?

- **VP Quality Assurance**
- **QA Director**
- **Test Manager**
- **Test Leads**
- **Program QA Consultant**
- **PMOs**

How quickly are defects being resolved?

How many tests have been executed and passed?
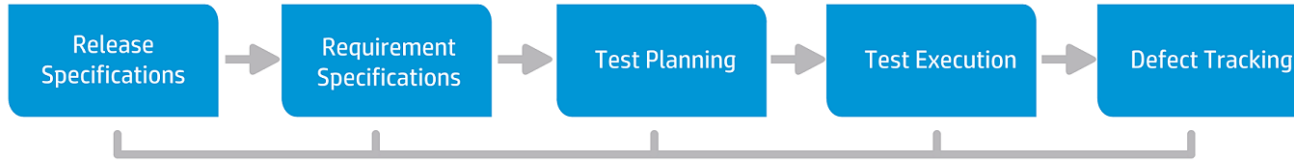
How many requirements were covered?

Are we ready to release?

How many blocking defects remain?

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Micro Focus ALM's Core Capabilities

Release Specifications → Requirement Specifications → Test Planning → Test Execution → Defect Tracking

Analysis

Single, scalable platform that enables a consistent, repeatable process for:
- Requirements Management
- Test Planning, Scheduling & Execution
- Release & Cycle Management
- Defect Management
- Real time reporting of progress and status
- Integration with Developer environments

Facilitates **distributed collaboration** and communication between QA teams, developers and business analysts on a single platform

Allows organizations to **lower costs** by capturing critical defects before they reach production

Enables organizations to manage the release process and make **informed go/no go** decisions through real time reports

Reports, Graphs & Dashboard

KEY BENEFITS:

- Make informed business decisions
- Clearly communicate to all stakeholders
- Understand the real-time status of an application
- Full trending analysis and insight into application projects
- Understand release and cycle progress

KEY CAPABILITIES:

- Fully customizable project reports (export to MS Word)
- Integrated Dashboard
- Out of the box or customizable analysis reports and graphs
- Report to MS Excel
- Embed graphs and charts into web portals
- Requirements traceability matrix

How Do We Solve?

Tools like Tasktop support software delivery organizations
as they evolve their test management processes and tools,
by creating a seamless user experience,
centralizing data for cross-tool reporting in ALM and
restoring visibility and control over product quality

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Example Integration

TEST MANAGEMENT & TEST EXECUTION

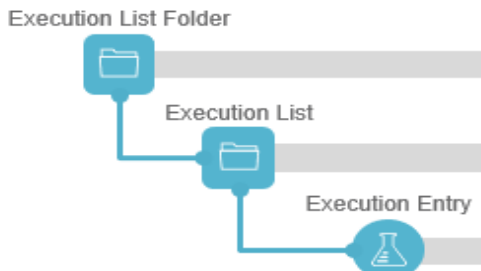Tricentis Tosca

DEFECT MANAGEMENT & REPORTING

Micro Focus ALM

Test Creation

Test Folder

Test Case

Test Folder

Test

Test Instance

Execution List Folder

Execution List

Execution Entry

Test Set Folder

Test Set
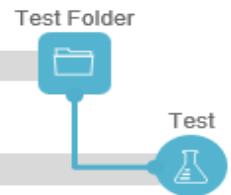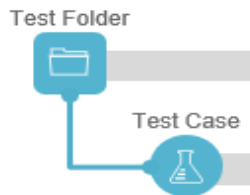
Test Instance

Test Run

Test Case Log
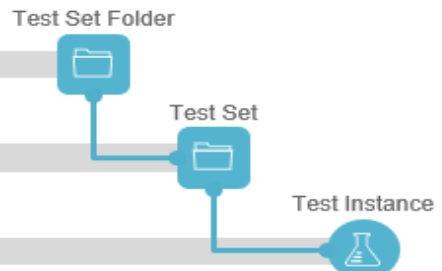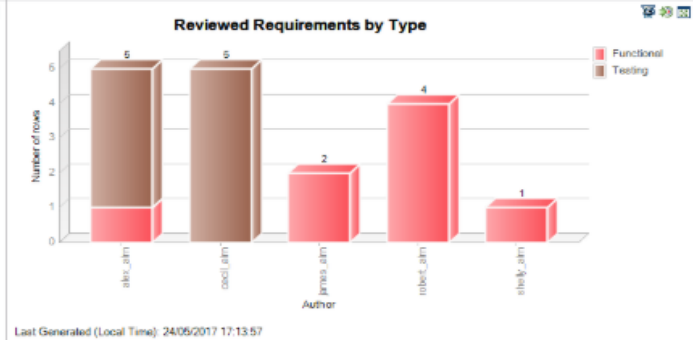
Test Run

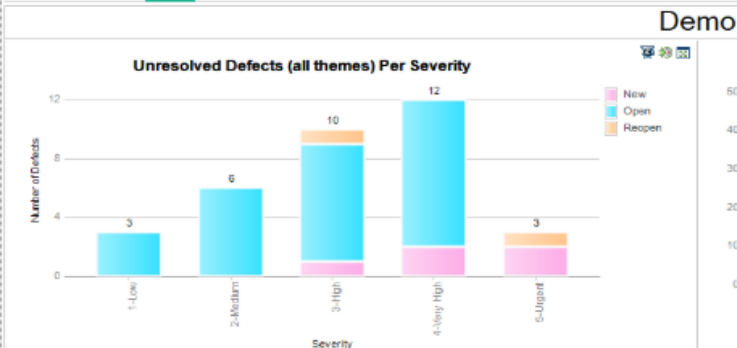66 YOU CAN'T MANAGE WHAT YOU DON'T MEASURE.

- W. Edward Deming

"to measure is to know – if you cannot measure it, you cannot improve it"
– Lord Kelvin

ALM Dashboard
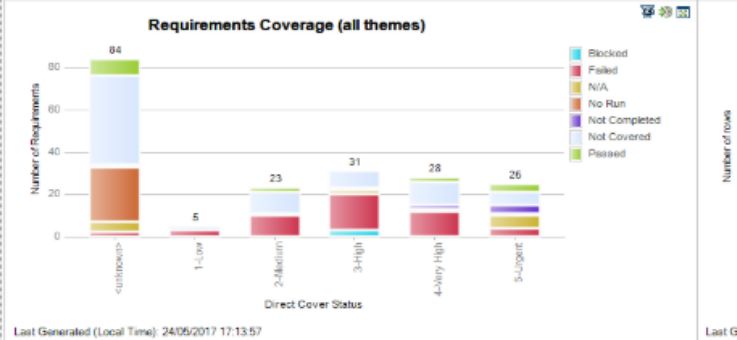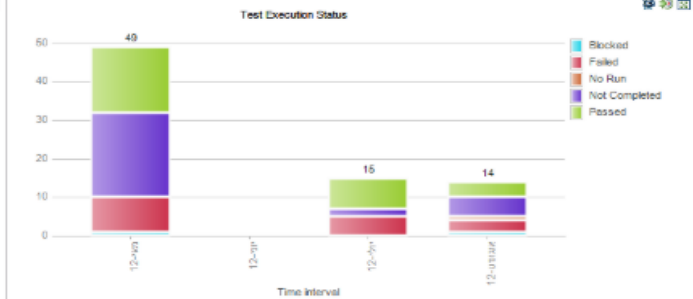
Common Entity Graphs

Requirement	Test Plan	Test Lab	Defects
• Coverage Graph • Progress Graph • Summary Graph • Trend Graph	• Progress Graph • Summary Graph • Trend Graph	• Test Set Progress Graph • Test Set Summary Graph • Test Run Summary Graph	• Age Graph • Progress Graph • Summary Graph • Trend Graph

- **ALM allows its users to create graphs off entity types (e.g., requirements, test plan, test lab, or defects)**
- **The most common types of entity graphs include: requirements coverage graph, requirements summary graph, test set summary graph, defect progress graph, defect summary graph, and defect aging.**

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Summary

- A balanced approach to People, Process, and Technology helps facilitate a 'smart' transition to increase levels of test automation.

- Statistics still show that nearly 50% of testing is still manual. Value stream integration tools like Tasktop help eliminate the fear of adopting a multi-tool strategy as you increase automation.

- Manual reporting is only necessary when tools are disconnected. By integrating the testing toolchain, you can build real-time reports that show both manual and automated test execution progress.

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Upcoming Vivit Events

June 27, 2019
Meeting: Vivit <u>Portugal</u> Local User Group Meeting
9:30 - 12:30 CET
https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1241430&group=

July 24, 2019
Meeting: User Group Treffen "Testen & Test-Management mit Produkten von Micro Focus in <u>München, Germany</u>
8:00 - 9:00 AM PDT (Los Angeles), 11:00 AM - 12:00 PM EDT (New York), 17:00 - 18:00 CET (Frankfurt)
https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1238689&group=

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Thank You

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