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SIG Talk: Quality and Testing - Proven Practices

April 17, 2018



Welcome to



YOUR INDEPENDENT MICRO FOCUS SOFTWARE USER COMMUNITY



Hosted By



Mark Ford
Vivit Board Community Director
Carolinas LUG Leader

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Today's Speakers



Mark Ford
Lead Developer
TIAA



Arvind Namasivayam
Manager, Lead Developer
TIAA

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Webinar Control Panel

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Questions



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Tweet Your Questions



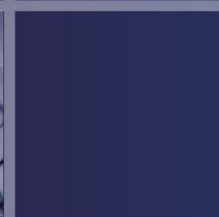
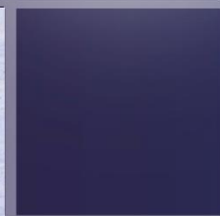
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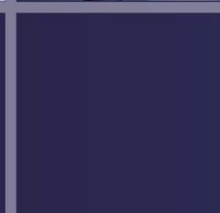


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SDLC Tool Integration Using Tasktop Hub



Tool Integration - Tasktop Hub

Agenda:

- A bit of background
- Tool Integration... What is it?
- What is Tasktop Hub?
- Basic mechanics of setting up a Tasktop Hub Synchronization
- Demo
- Questions

A bit of background

- Tasktop is a software vendor that sells a product called Tasktop Hub
- I'm the Tasktop Sync/Hub Admin at TIAA
- I've worked with Tasktop Sync for 4.5 years and Tasktop Hub for about 6 months
- We have Tasktop Sync integrations with: ALM, RTC, RDNG, ServiceNow, Serena, JIRA
- We have Tasktop Hub integrations with: ALM, JIRA, ServiceNow, SharePoint
- We're in the process of moving from Sync to Hub (replacing and migrating)
- Tasktop Sync average monthly updates/creations in 2017: 63,459
- Tasktop Hub average monthly updates/creations in 2018: 5,945

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Tool Integration... What is it?

- Software tools typically store information (defects, code, service tickets, requirements)
- Organizations tend to have a lot of tools – typically from different vendors
- It can be beneficial for software tools to share their information with each other
- Tool integrations allow software tools to “talk” to each other
- Most software tools these days have **Application Programming Interfaces (APIs)**
- APIs can be used to send/receive info but they have to be formatted in certain ways
- Developers can write their own mechanisms to talk to other tools using APIs
- Some software tools have their own mechanisms to talk to other tools using APIs

What is Tasktop Hub?

Tasktop Hub is a Tool Integrator that provides three central functions:

- **Synchronize data between two tools**
- Push data from one tool to another tool
- Capture and store transactions that occur within a tool (transactional logging)

I'll be talking today about the first function: Data Synchronization between two tools:

- Create an artifact in one tool and it automatically creates an artifact in a second tool (and vice versa)
- Update an artifact in one tool and it automatically updates an artifact in a second tool (and vice versa)



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Tasktop Hub – Basic Mechanics

Tasktop Hub's Synchronization provides a platform that syncs an artifact (like a Defect) between two end-points (like Micro Focus ALM and Atlassian JIRA) by:

- Querying each tool to see when new artifacts are available for creation in another tool
- Querying each tool to see when artifact fields are updated and need to be updated in another tool
- Querying each tool to see when comments and attachments have been added and need to be added in another tool
- Retrying create/update attempts when records are locked or fail to update
- Reporting errors when a create/update attempt is unsuccessful
- Storing metrics to see how much activity is being performed
- Integrating with 39 (currently) different SDLC tools from a variety of vendors

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Tasktop Hub – Basic Mechanics

A basic synchronization setup with Tasktop Hub involves:

- **2 Repository Connections** – URL and login credentials for each tool
- **1 Model** – generic representation of the fields involved with an integration
- **2 Collections** – end-point mappings between each tool's fields and the model fields plus the projects involved (which ALM projects, which JIRA projects, etc)
- **1 Integration** – routing and filtering controls between end-point collections so the data moves from location to location – in real time!



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Demo



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Tasktop

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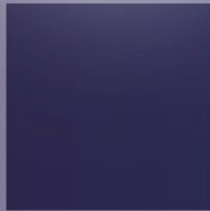
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SIG Talk – Installing and Using Mobile Center



EDUCATION

Installing and Using Mobile Center

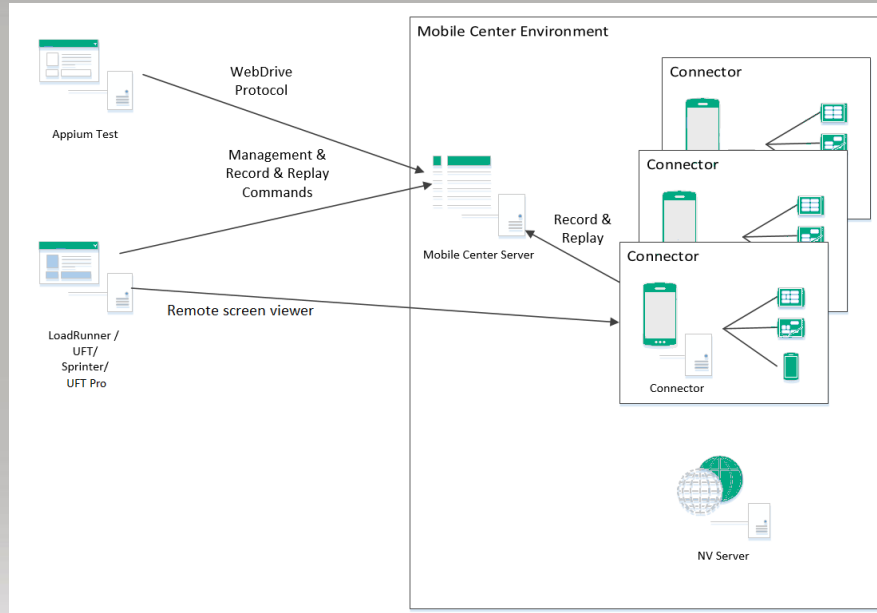
Agenda:

- Introduction to Mobile Center (MC)
- MC architecture and our implementation
- Installation best practices
- Demo
- Questions

What is Mobile Center

- Software solution provided by Microfocus to test mobile applications
- Integrates with a host of Testing tools –
 - UFT/LeanFT
 - LoadRunner/Performance Center
 - Network Virtualization
 - Appium
 - Etc.
- Supports both Real Devices and Emulators to provide on-premise Mobile Lab
- Supports test executions on Amazon Devices Farm (ADF)
- Integrates with Jenkins via [plugin](#)

Architecture



- **Mobile Center Server**
 - Provides UI to
 - Upload and manage mobile apps
 - Record and run tests on devices
 - Manage devices and users
 - Includes PostgreSQL database to store reusable data
 - Supports Windows and Linux
- **Mobile Center Connector**
 - Allows communication between mobile devices and Mobile Center Server
 - Automatically installed with Mobile Center Server
 - Could also be installed as standalone component on different machines
 - Supports Windows, Linux and macOS

Our Implementation

- Windows MC Server
- 2 macOS Connectors
 - iOS
 - Android
- 2 TrippLite 48-Device USB Charging Station Cabinet with Sync



Installation – Tips and Tricks

- Use dedicated separate machines for Server and Connector. If possible, separate Connector machines for iOS and Android devices
- If using macOS connectors, limit number of devices to 16
- Connect the devices through a genuine USB cable. A non-genuine cable may cause a failure in the connection
- Enable UI Automation for iOS devices
- Enable Developer Options, Stay awake and USB debugging for Android devices
- Reduce the screen brightness of devices to the minimum, to reduce power consumption and heat generation

Installation – Tips and Tricks

- Place the devices in a vertical position to facilitate a smooth change in orientation (portrait to landscape) in the remote device view.
- Re-sign connector iOS agent apps with a development certificate of an Apple Developer account, and a development provisioning profile belonging to the same account.
- Setup automatic app packaging and signing services -
<https://admhelp.microfocus.com/mobilecenter/en/2.60/Content/AutomaticPackagingService.htm>
- Setup automatic app uploads to Mobile Center

Demo



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Questions



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Upcoming Vivit Webinars

April 18, 2018

How to Achieve Cloud Control Using Micro Focus Hybrid Cloud Management

8:00 - 9:00 AM PST (Los Angeles), 12:00 PM - 1:00 PM EST (New York), 18:00 - 19:00 CET (Frankfurt)

<https://vivitworldwide.site-ym.com/events/EventDetails.aspx?id=1079239&group=>

April 19, 2018

SIG Talk: IT Operations - SACM/OpsBridge

8:00 - 9:00 AM PST (Los Angeles), 12:00 PM - 1:00 PM EST (New York), 18:00 - 19:00 CET (Frankfurt)

<https://vivitworldwide.site-ym.com/events/EventDetails.aspx?id=1081712&group=>

April 25, 2018

Content Manager - Impact of GDPR on the International Criminal Court

7:00 - 8:00 AM PDT (Los Angeles), 10:00 AM - 11:00 AM EDT (New York), 16:00 - 17:00 CET (Frankfurt))

<https://vivitworldwide.site-ym.com/events/EventDetails.aspx?id=1090655&group=>

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Board Elections Update



Board Elections will run from April 2 – May 2, 2018

[Vote Now!](#)

5 open seats. Three, 3-year terms, One, 2-year term and One, 1-year term.

Candidates:

[Richard Bishop](#), Lloyds Banking Group - United Kingdom

[Chris Carpenter](#), Bienabee - WA, USA

[Bob Crews](#), Checkpoint Technologies - FL, USA

[Mark Ford](#), TIAA - NC, USA

[Pedro Miguel Jeronimo Mendes](#), DataSmart - Portugal

[Ramesh Subramanian](#), NTT Data - MA, USA

[Jonathon Wright](#), Digital Assured - United Kingdom



Thank You

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