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DYNAMICS CON LIVE

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Background:

- Awarded MS MVP in BizApps in 2014
- Have worked with AX since 2007
- Have worked with D365FO since 2016



Automated regression testing - Build your strategy, select technology, and convert RSAT scripts

Automated regression testing was impractical 90% of the time 10 years ago but is now quickly becoming a requirement for 90% of the implementations. It should not be optional in most scenarios. In this session, we'll walk through building an automated regression testing strategy, review multiple technologies that do this (RSAT, Leapwork, TheTestMart, etc), and then how to switch strategies if you're already onboard with the RSAT train.

This is not product or platform specific. This applies to everyone. Come with questions and lets get an open discussion going at the end of the session since this is such a new area that is now becoming a requirement.



The common landscape

- Stressful updates
- Unpredictable next days
- Deprioritized
- Too much to do, not enough time
- Last minute testing
- Weeks of fixing issues post update
- System-breaking configuration changes



What is automated regression testing

Consistent

Timely

Actionable

Adaptable

Repeatable

Not just for a single event



What makes a great regression testing strategy?

- Designed with the business AND IT teams
- Addresses the biggest risk points
- More doesn't mean better
- Is built to run quickly and often
- Designed for more than just application updates
- Involves all applications and aspects of the business, not just one



Choose wisely



- Required skillset
- Time to implement
- Required upkeep
- Cost of software (annual/monthly)
- Consultants required
- What do you need to test?



Select your champion

- Plan to own inhouse at the start
- Designate a champion
- Empower with a team
- Invest in training
- Become hands-on with all aspects
- Designate a second and third 'backup' champion
- Who would be passionate about this?



Tool selection checklist

- What solutions does your company use?
- What solutions does the tool support?
- What solutions does the regression testing company specialize in?
- What areas of your solution are keeping you up at night?
- What skills do you need to maintain and expand the use of the solution



Detailed checklist to ask about in selection

- Technology/Architecture backend
- Initial learning curve
- Speed of adoption
- Fit for both business users and technologists
- Maintenance workloads
- Cross technology support
- D365 Platform support - specifically
- Encrypted assets storage
- Tamper proof audit trail
- Community/Forum support
- Training materials
- Integrations with CI Tools (DevOps, Jenkins)
- Business Process modeling (OOB)
- Execution Dashboard
- Licensing model/cost
- API/Service Automation
- OS Support
- Browser support
- Scalability
- Functionality/Script reusability
- E2E integration tasks
- CAN WE BE HANDS ON DURING SELECTION?
 - Would you buy a house or car sight unseen?



Is RSAT deprecated?

<https://www.yammer.com/dynamicsaxfeedbackprograms/groups/15284202>

The screenshot shows a Yammer group titled "DYNAMICS 365 AND POWER PLATFORM PREVIEW PROGRAMS". The group name is "Regression Suite Automation Tool Preview". A post by Mariana Ardito Couto, dated March 13 at 10:46 AM, asks for help with RSAT tests. The post text is: "Hi fellow RSAT users, I have a fairly niche question - we are a retail company, and use the CPOS tests for a lot of our update checks. According to the documentation on the MS website, it's best practice to have the recording and test runs in the same screen layout/ size, or the test might not find the buttons in the right location. Any ideas or suggestions on how we can standardize this? Is there a place within the Parameter file or anywhere else we can record that size adjustment? Whenever we... expand". The post has 204 views and 3 replies. A reply by Mariana Ardito Couto on April 29 at 11:36 AM says: "Hi Frank Dahl and Luke Graham have either of you had a chance to look into this issue? We are really struggling with the RSAT Commerce tests because it seems that only the person who recorded them can get the test to run successfully, and that is not feasible when we have 10 commerce-related companies to check." Another reply by Luke Graham on Friday at 02:51 PM says: "Hi Mariana Ardito Couto, unfortunately there is not a way to specify a screen". The right sidebar shows "NETWORK RESOURCES" with links to "TechTalk Background + Set...", "Regression suite automatio...", "Finance and Operations: Re...", and "Regression Suite Automati...". It also shows "RELATED GROUPS" with "Add a related group" and "D365FO Acceptance Test Li...". "ACCESS OPTIONS" include "Subscribe to this group by email", "Post to this group by email", and "Embed this feed in your site".

[Finance and Operations Regression Suite Automation Tool Background & Setup - TechTalk \(youtube.com\)](https://www.youtube.com/watch?v=...)





Already choose a horse?

Just a few ways to execute

- Manual testers
- RSAT
- Playwrite
- Leapwork
- The TestMart
- Tricentis Tosca
- Selenium
- Playwright



A few hurdles and tips


- Hardware
- Payment processing
- Consistent data
- Organizational change management
- Test environments for solutions
- Automated data refreshes/scrub real data



Get rockin'!

- Ask why not? Not why?
- Try out the solution asap or before selection
- Don't wait to start building requirements
- Find the people most impacted by regression issues
- Start the conversation
- Find the catalyst
- Whiteboard the ROI case



The background features a jagged, multi-colored border in shades of orange, yellow, red, pink, and purple. The interior is white with fine, light blue lines radiating from the center, creating a starburst or sunburst effect.

Q&A