



# Autonomous Testing Powered by Observability

XPLUS is implementing the project:  
“International Promotion of the XPLUS S.A.  
Product Brand in the ICT Industry Events”

Speaker:



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VP of Products

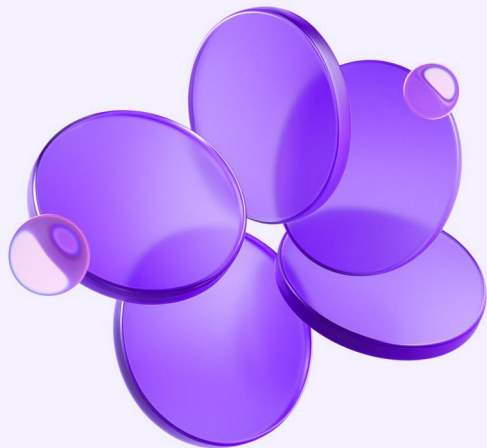
\*Please note that this session (or parts of it) may be recorded.





# Agenda

1. Introduction
2. Challenges in Regression Testing
3. Documentation vs. Real Business Processes
4. What is Autonomous Testing?
5. Observability as the Foundation of Proper Test Coverage
6. Demo
7. Q&A Session
8. Quiz



# Challenges in Testing and What Autonomy Addresses







- Lack of defined test cases
- Business is hardly available for defining the scope of testing
- Test scope and process knowledge are outdated

# Traditional Approach to Test Case Definition

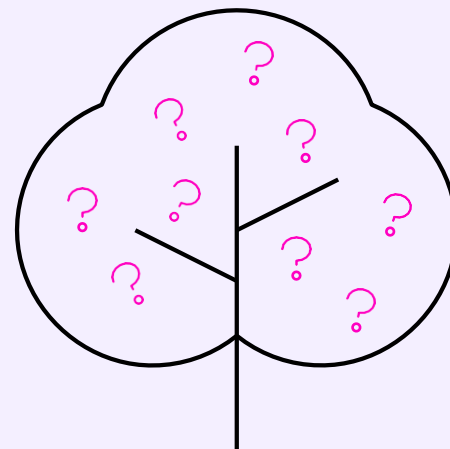
## Documentation

### Vendor Invoice Process

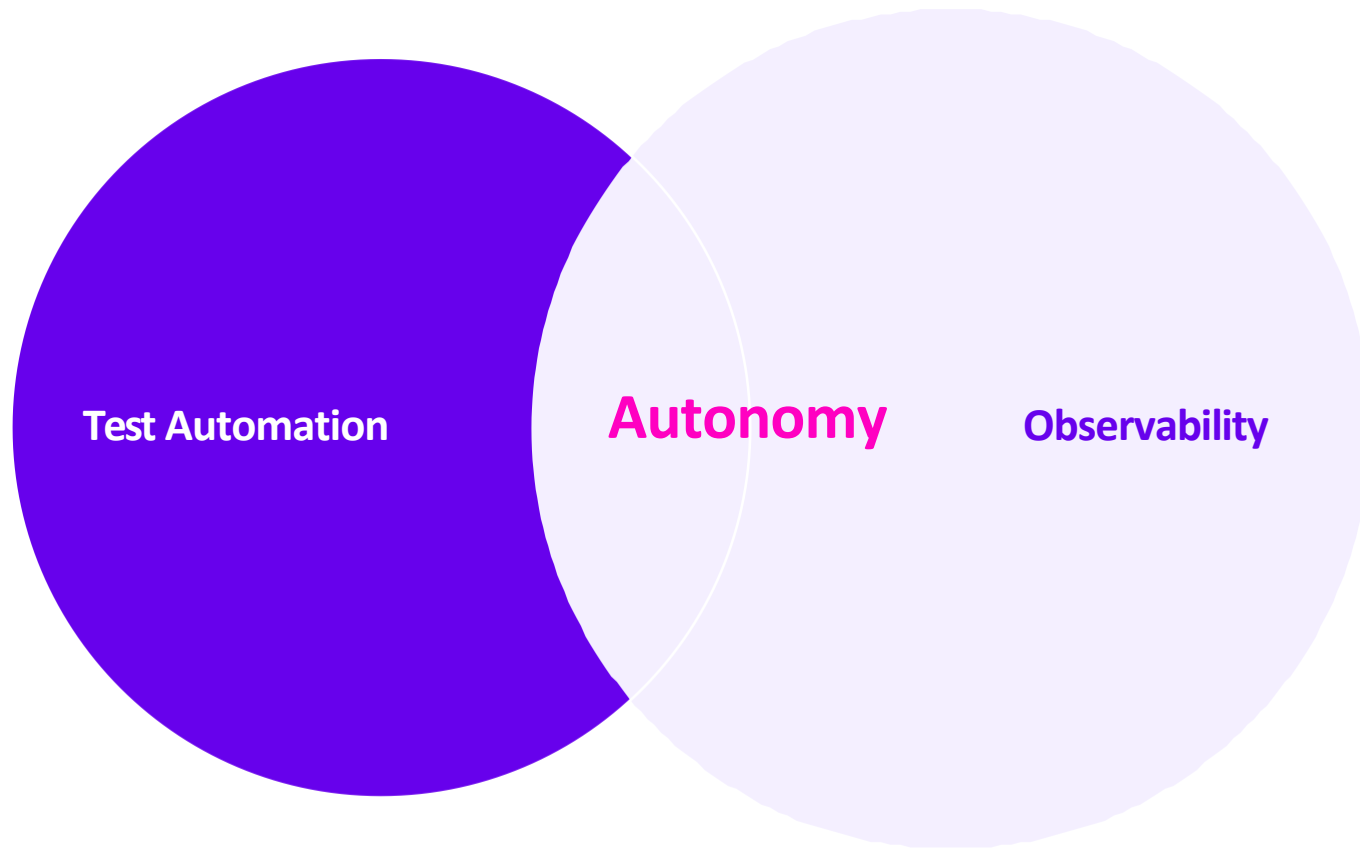
Follow these simple steps to streamline your vendor invoice process and make payments quickly and efficiently

-  **1. Open Vendor Account**  
Go to Accounts payable → **Vendors** and open the **Vendor** account.
-  **2. Create & Submit Invoice**  
Click **New**, enter invoice details, and submit for approval.
-  **3. Approve & Post Invoice**  
Approve the invoice and click **Post** to record it.
-  **4. Process Payment**  
Go to **Payments**, select **Vendor**, and enter the invoice number.
-  **5. Settle the Invoice**  
Click **Functions** → **Settlement** → **Ok** to finalize the payment.
-  **6. Invoice Paid**  
Click **Post** when ready and mark the invoice as paid.

## Business processes



Decision Tree





# What is Autonomous Testing?

- ▼ **Level 1:**  
We don't need business users to understand what to test. Observability reveals how the system operates.

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- ▼ **Level 2:**  
Scripts are AI-healed and incrementally increase test coverage. The test manager keeps a pulse on the process.

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- ▼ **Level 3:**  
Autonomous proposition of representative patterns.

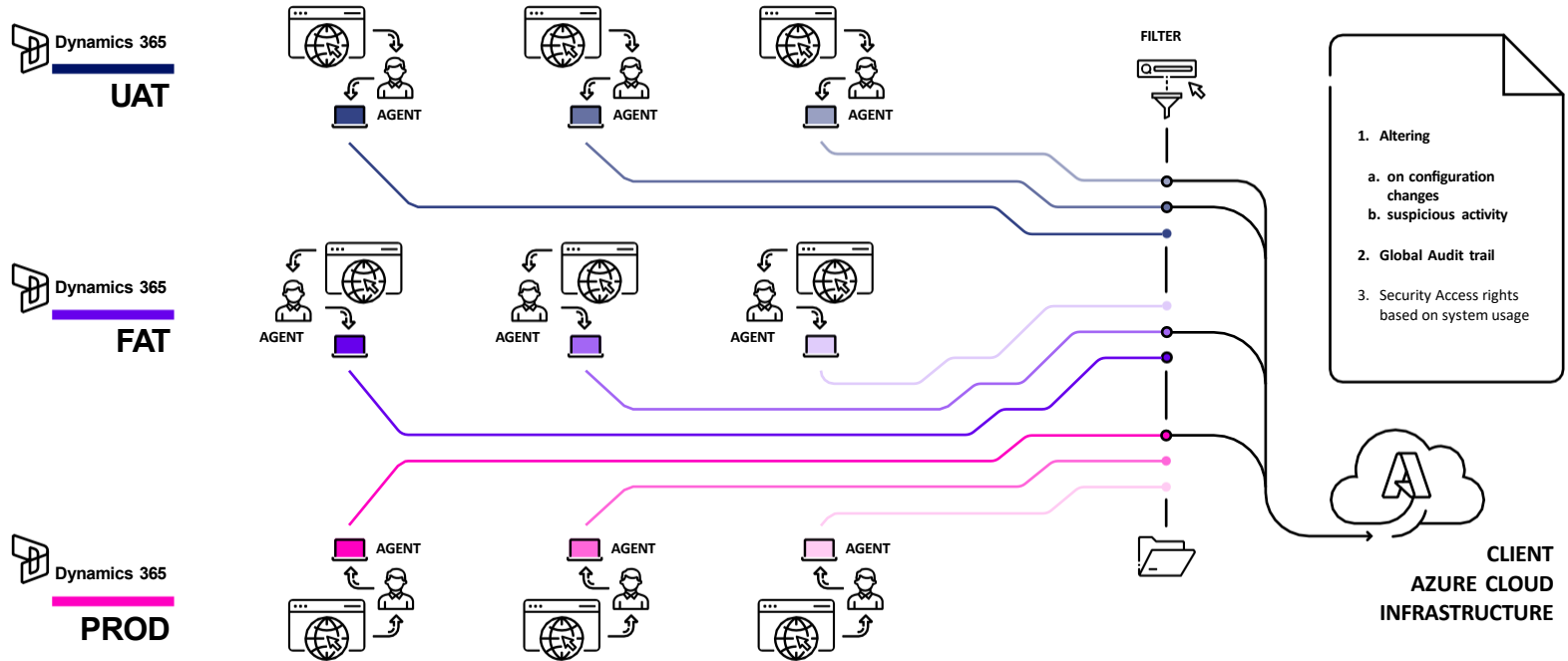
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- ▼ **Level 4:**  
Test cases are connected to end-to-end scenarios that mimic real operations.

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- ▼ **Level 5:**  
Replay of a selected business day on demand. Business operations are identified and played back on demand to verify system stability.

# XPLUS for User Security Governance – Observability



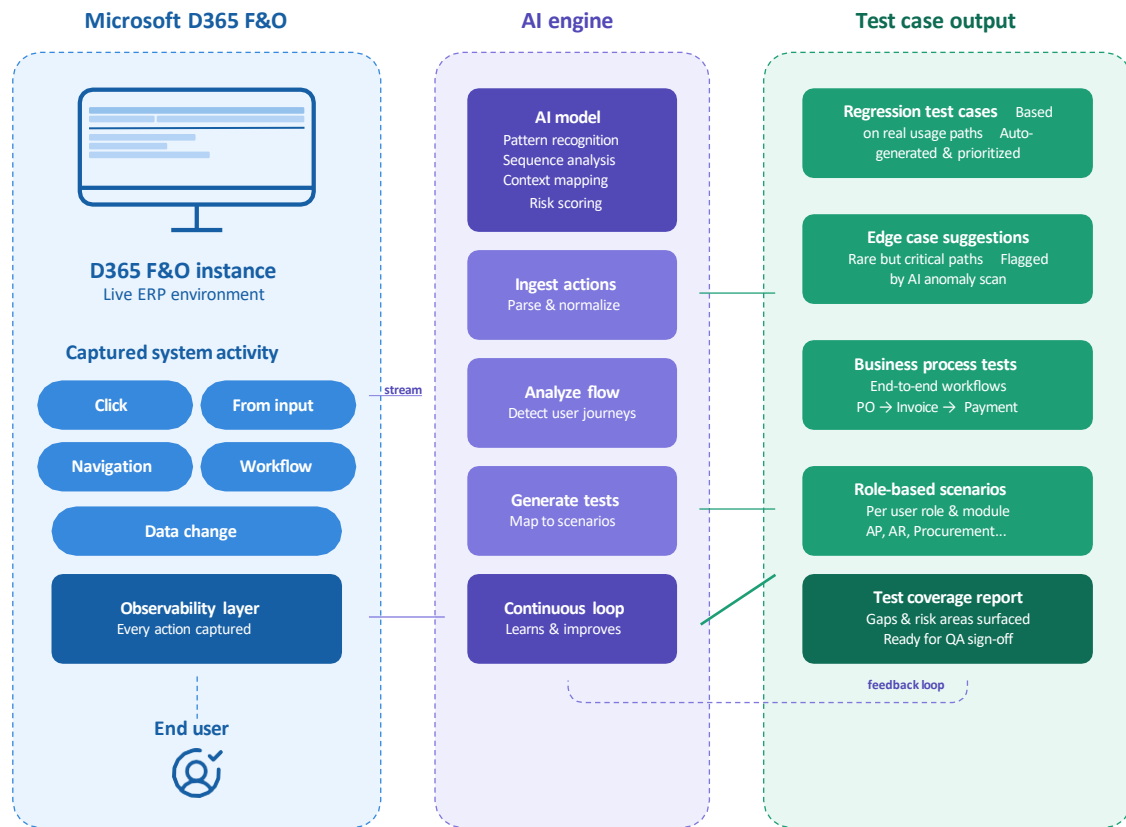
# Foundation of Test Autonomy

 D365 Observability

 AI processing

 Test case output

 feedback loop



# AI Healing in Action (Level 2)

**AI Optimize Script**

Review sales orders Execution (COPY)  
ID: 366

#367 - 11 lut, 10:11

**Success**  
Replaced unreliable recorded menu navigation with stable navigation-search steps from recovery data, test run completed with zero recovery and landed on All sales orders page.

Prompt	Completion	Total Tokens
81 095	4335	85 430

**What Changed**

Stats:  
Before: 7 steps -> After: 9 steps

Key changes:  
[-] Removed line 2: "Go to Sales and marketing/Sales orders/All sales orders/" (d365fo\_menuitem) because it produced recovery actions due to an unreliable recorded favorite/menu xpath.  
[+] Added lines 2-4: Explicit navigation search sequence based on recovery-proven resolvers:  
- Line 2: clickWithFocus on the navigation search box ("Search for a page")  
- Line 3: type "All sales orders"  
- Line 4: click the "All sales orders" suggestion/result  
[-] Kept lines 5-8 (grid filter + enter + click Sales order) unchanged because they were already purposeful and had no recovery data.

Result verification:  
- Clean execution: no errors and NO recovery data generated.  
- Final screenshot shows the D365FO "All sales orders" list page with the Sales order column active (expected landing page for this script).

**Steps Comparison**

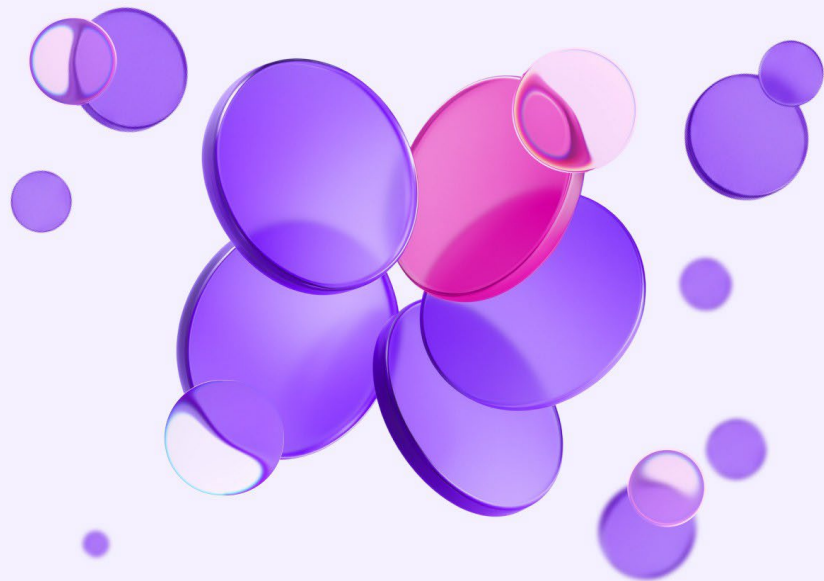
Original (7)	Optimized (9)
- 1 Start script	1 Start script
- 2 Go to Sales and marketing/Sales orders/All sales orders/	2 Focus navigation search (Search for a page)
+	3 Search for page: All sales orders
+	4 Open page from search suggestion (All sales orders)
+	5 Click Sales order column header
3 Click Sales order column header	6 Type value 230930 to field Filter field: Sales order, operator: contains
4 Type value 230930 to field Filter field: Sales order, operator: contains	7 Press ENTER
5 Press ENTER	

# Demo



# Q&A

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European Funds  
for Smart Economy



Republic  
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# Take the quiz, win a prize!

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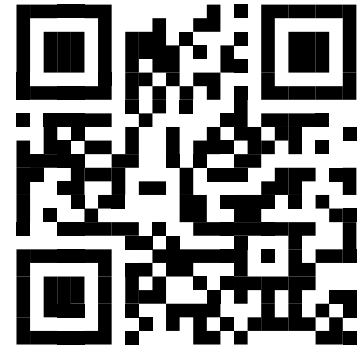


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# Thank you!



**Bartosz Szpiech**  
VP of Products



Learn more on our  
website

