

©Dyneria Smart Script

Overview

April 18th, 2024

Agenda

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 - Logs
 - Workspace



Purpose

 **Dyneria Smart Script** stands out as a comprehensive admin tool within the Dyneria Smart Suite product line that is tailored for Microsoft Dynamics 365 Finance & Supply Chain Management.

Engineered with precision, **Dyneria Smart Script** aims to:

- **Elevate Microsoft Custom Script Capabilities:** Enhance the functionality of custom scripts with superior performance, ensuring seamless operations and improved efficiency.
- **Streamline Execution Processes:** Simplify script runs by bypassing cumbersome workflows, offering a more intuitive and efficient approach to script execution.
- **Enhance Testing and Logging:** Facilitate comprehensive test runs and logging mechanisms, empowering users with detailed insights into script execution for enhanced troubleshooting and optimization.

Benefits

- **Streamlined Approval Process:** Eliminates the requirement for mandatory script approval via workflow, expediting the execution process.
- **Enhanced Performance:** Abandoning tracing during script execution leads to a substantial boost in performance, ensuring tasks are completed swiftly and efficiently.
- **Handling of Large Data Updates:** Facilitates the processing of substantial data updates, enabling smooth operations even with extensive datasets.
- **Fault Tolerance:** Offers the ability to restart scripts in case of failure, ensuring continuity of operations and minimizing disruptions.
- **Efficient Version Management:** Allows versioning and activation of each iteration without necessitating a new assembly, promoting seamless updates and revisions.
- **Expanded Data Update Flexibility:** Removes limitations for data updates in specific tables, such as workflow tables, enhancing flexibility and adaptability to diverse data scenarios.
- **Comprehensive Logging:** Enhances log functionality by providing more meaningful and detailed insights, aiding in troubleshooting and analysis for improved performance and decision-making.



Configuration

- **Integration with D365 Custom Script**
Requirements: Each script slated for execution remains compliant with Dynamics 365's [custom script requirements available here](#). This ensures seamless integration and adherence to platform standards requiring deployable package.
- **Configuration of System Parameters:**
Prior to execution, it is imperative to define and configure system parameters governing the execution logic. This includes setting access limitations where necessary.

Standard view ▾

System parameters

General

Data connections

Help

Legal and Privacy

Batch global settings

System notifications

Power Apps Portals

Dyneria Smart script

Dyneria Smart script

ACCESS	LIFECYCLE
Restrict by user group TestGroup1 ▾	Approval step Different user ▾
	Test run step Optional ▾

Functionality – Upload and execution

- To start with Dyneria Smart Script, in the **System Administration** menu navigate to **Periodic > Dyneria Smart**.
- The **Upload** button acts as the entry point for the script, much like the custom script readily available. Choose the deployable package and review the data for any potential issues. Next, specify the Purpose of the script, as this will aid in tracking its usage in the logs.

Standard view ▾
Upload deployable package

Purpose
Demo 2

Deployable package
DyneriaCustomScriptT...

UPLOADED

File name
DyneriaCustomScriptTest_v3_05...

Assembly name
Dynamics.AX.DyneriaCustomScr...

Class name
DyneriaCustomScriptTestJob

This feature enables you to make modifications to your SQL database, tables, and data.

By clicking **Upload**, you agree to bear the risk of any modifications you make and you understand neither Dyneria nor Microsoft does provide any support for such modifications.

Assembly name	Script Id	Created date and time	Created by	
ptTestJob	Dynamics.AX.DyneriaCustomScr...	{6748BDE5-40A3-4CB5-9E92-D...}	1/30/2024 6:27:43 PM	Grygory.Ivanov

Functionality – Upload and execution

- Use the **Upload new version** button to upload the new version of the script without needing to create a new script. The subsequent steps are the same as uploading a brand-new script, but it will create a new version inside the existing script, allowing for the traceability of changes and versions.
- Click **Details** to access the script log, version info, and available actions.

The screenshot displays the 'Smart script details' page in the Dyneria Smart Script application. The breadcrumb trail at the top reads: Finance and Operations > System administration > Periodic tasks > Dyneria Smart > Smart script. The main navigation bar includes buttons for 'Upload new version', 'Process workflow' (which is highlighted), and 'Options'. Below the navigation bar, the 'Standard view' dropdown is visible. The 'Smart script details' section is divided into three main areas: 'Overview', 'Deployable package', and 'Versions'.

Overview

Status	Purpose	Events
Uploaded	Demo 3	[4/26/2024 02:10:29 am] Uploaded by Grygory Ivanov. [4/26/2024 02:10:29 am] Active version is updated to 1 by Grygory Ivanov.

Deployable package

Versions

Buttons: [Upload new version](#) [Activate version](#)

Active	Version	Assembly name	Class name
☐	1	Dynamics.AX.DyneriaCustomScriptTest, Version=0.0.0.0, Culture=neutral, PublicKeyToken=null	DyneriaCustomScriptTestJob

Functionality – Upload and execution

- Use the **Start** menu to approve or reject the script.
- Use the **Test** menu to execute a test run – the transaction will be aborted at the end, but logs will be kept anyways, marked as Test run.
- Use the **Run** menu and button to execute the script and commit the results Logs will be created as a part of that action.
- Use the **End** group to mark a script as abandoned, completed (Purpose resolved) or unsuccessful (Purpose unresolved).

Finance and Operations | System administration > Periodic tasks > Dyneria Smart > Smart script

← + Upload new version | Process workflow | Options 🔍

Start	Test	Run	End
Approve	Run test	Run	Abandon
Reject	Accept test log		Purpose resolved
			Purpose unresolved

Functionality – Logs

- **System administration > Inquiries > Dyneria Smart > Smart script log** is a log cockpit.
- Each run, test or final run is logged, including information about execution date and time, user, ID, purpose, test mark and technical script information (such as class).
- Messages produced during the script execution are listed in the bottom part and also available via the **Show log** button.

Finance and Operations | System administration > Inquiries > Dyneria Smart > Smart script log | USP2

Smart script run | Message details

Smart script log

Standard view

Filter

Created date and time	Created by	Script Id	Version	Purpose	Test run	Log	Assembly name	Class name
1/19/2024 12:23:58 PM	Admin	[0782F047-195F-458C-BFB1-19...	2	Test_02		Smart script run [1/19/2024 12:23:48]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/19/2024 12:24:01 PM	Admin	[0782F047-195F-458C-BFB1-19...	2	Test_02		Smart script run [1/19/2024 12:24:01]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/19/2024 12:25:32 PM	Grygory.Ivanov	[0782F047-195F-458C-BFB1-19...	3	Test_02	✓	Smart script test run [1/19/2024 12:25:30]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/19/2024 12:26:42 PM	Grygory.Ivanov	[0782F047-195F-458C-BFB1-19...	3	Test_02		Smart script run [1/19/2024 12:26:41]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/30/2024 6:31:36 PM	Grygory.Ivanov	[67488DE5-40A3-4CB5-9E92-D...	2	Test_02	✓	Smart script test run [1/30/2024 06:31:35]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/30/2024 6:36:12 PM	Grygory.Ivanov	[67488DE5-40A3-4CB5-9E92-D...	2	Test_02	✓	Smart script test run [1/30/2024 06:36:11]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/30/2024 6:36:58 PM	Grygory.Ivanov	[67488DE5-40A3-4CB5-9E92-D...	2	Test_02	✓	Smart script test run [1/30/2024 06:36:57]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob
1/30/2024 6:50:12 PM	Grygory.Ivanov	[67488DE5-40A3-4CB5-9E92-D...	2	Test_02		Smart script run [1/30/2024 06:50:12]	Dynamics.AX.DyneriaCustomScr...	DyneriaCustomScriptTestJob

Message details

Smart script run

- [1/30/2024 06:50:12 pm] Smart script is started
- DyneriaCustomScriptTestJob v1.01
- Domain Id: 2
- [1/30/2024 06:50:12 pm] Smart script is ended

Log

Smart script run

[1/30/2024 06:50:12 pm] Smart script is started

DyneriaCustomScriptTestJob v1.01

Domain Id: 2

[1/30/2024 06:50:12 pm] Smart script is ended

Functionality – Workspace

- Workspace is now equipped with pre-defined quick links and filters to simplify access to the failed, successful and active scripts.
- This workspace serves as a starting point for system administrators, providing quick access to essential information for overseeing system data updates performed via scripts, with the capability to promptly dive into specific details.

The screenshot displays the 'Dyneria Smart script management' interface. At the top, a navigation bar shows 'Finance and Operations' and a breadcrumb trail: 'System administration > Workspaces > Dyneria Smart script management'. Below this, a search bar contains 'Options'. The main heading is 'Dyneria Smart script management', with tabs for 'Summary' (selected) and 'Report'. Under the 'Summary' section, three blue boxes show counts: '0 Active scripts', '1 Successful scripts', and '1 Failed scripts'. Below this is a 'Details' section with a left-hand filter menu containing 'All scripts' (selected), 'Active scripts', and 'Finalized scripts'. A search bar labeled 'Filter' is positioned above a table. The table has columns: Purpose, Active version, Status, Class name, Assembly name, and Script Id. It lists three script entries.

Purpose	Active version	Status	Class name	Assembly name	Script Id
Test_01	1	Abandoned	DyneriaCustomScriptTestJob	Dynamics.AX.DyneriaCustomScr...	{E2D50453-B41
Test_02	2	Purpose resolved	DyneriaCustomScriptTestJob	Dynamics.AX.DyneriaCustomScr...	{6748BDE5-40A
Test_02	3	Purpose unresolved	DyneriaCustomScriptTestJob	Dynamics.AX.DyneriaCustomScr...	{0782F047-195I

Summary

**We believe our product will benefit your business.
We would love to hear from you! Please, send your questions or inquiries to
info@dyneria.com.**

