



Job Queue Manager

User Manual



MICRO APPS

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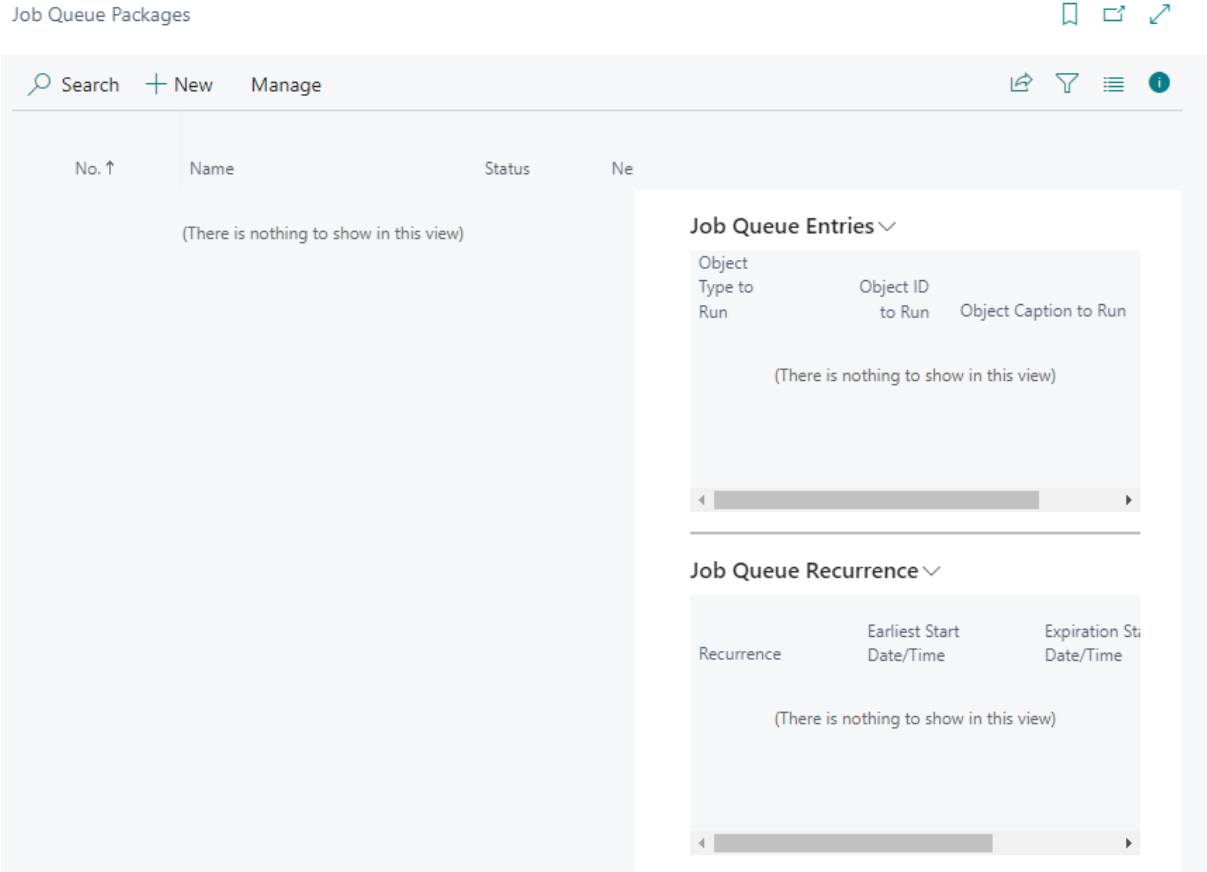
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Preliminary

This document shows how the Job Queue Manager application from Micro Apps can be used. This document assumes the app is installed and setup correctly. If this is not the case, follow the Installation & Setup document for the Job Queue Manager before continuing.

Create Job Queue Package

To create a Job Queue Package, which is a sequence of job queue entries, navigate to the Job Queue Packages page and click on New.



The screenshot shows the 'Job Queue Packages' application interface. At the top, there is a search bar with a magnifying glass icon, a '+ New' button, and a 'Manage' button. To the right of the search bar are several utility icons: a share icon, a filter icon, a list icon, and an information icon. The main content area is a table with columns labeled 'No. ↑', 'Name', 'Status', and 'Ne'. The table is currently empty, displaying the message '(There is nothing to show in this view)'. On the right side of the interface, there are two expandable panels. The first panel is titled 'Job Queue Entries' and contains a table with columns 'Object Type to Run', 'Object ID to Run', and 'Object Caption to Run'. This panel also displays '(There is nothing to show in this view)'. The second panel is titled 'Job Queue Recurrence' and contains a table with columns 'Recurrence', 'Earliest Start Date/Time', and 'Expiration St Date/Time'. This panel also displays '(There is nothing to show in this view)'. Both panels have horizontal scroll bars at the bottom.

First, a new name needs to be given to the package. After this, job queue entries can be set with the action "Set Job Queues" via the action bar.



Run Package 1

Actions ▾ Related ▾ Automate ▾

- ▶ Set Job Queue Package Active
- ▮ Set Job Queue Package On Hold
- 📅 Set Job Queues

Status On Hold

Next Run Time

On Error Stop all job queues in the package ▾

Recurrences | Manage

Recurrence	Earliest Start Date/Time	Expiration Start Date/Time	Next Date Form
→ Run Once			

Details Attachments (0)

Job Queue Entries ▾

Object Type to Run	Object ID to Run	Object Caption to Run
(There is nothing to show in this view)		

A page appears where the desired job queue entries can be filled in. The job queue entries can be filled in as normal. For each entry a run order needs to be specified. The run order determines the sequence of the job queue entries in which the package has to run. When everything is filled in, go back to the job queue package.

← Job Queue Entries ✓ Saved

Manage

Object Type to Run	Object ID to Run	Object Caption to Run	Parameter String	Run Order ↑	Maximum No. of Attempts to Run	Rerun Delay (sec.)
Codeunit	50290	Test Codeunit Run1		1	0	0
→ Codeunit	50294	Test Codeunit Run5 Error		2	0	0

From the job queue package, the recurrences can be filled in, specifying when the package should run. Multiple recurrences can be filled in to run the package on different moments.

Recurrences		Manage					
Recurrence	Earliest Start Date/Time	Expiration Start Date/Time	Next Run Date Formula	Starting Time	Ending Time	No. of Minutes between Runs	
→ Monday	20-2-2023 00:00	1-4-2023 00:00				1440	
Wednesday	1-3-2023 00:00			20:00:00		1440	

You can specify what should happen in case an error occurs in a job queue entry with the “On Error” field on the job queue package page. It is possible to stop the whole package when an error occurs, or the package can continue and finish the run before stopping, or the job queue package continues as if no error occurred.

On Error Stop all job queues in the package

- Stop all job queues in the package
- Finish remaining job queues and stop all job queues after in the package
- Continue with next job queue in the package

On Error Continue with next job queue in the package

- Continue with next job queue in the package
- Stop all job queues in the package
- Finish remaining job queues and stop all job queues after in the package
- Continue with next job queue in the package

The last thing before activating the package is to set the email functionality with the “Notifications” action under “Related” if desired.

Job Queue Package

Run Package 1




Actions ▾ Related ▾ Automate ▾






General

- Log Entries
- Notifications

Name

From the Notification List, you can choose who will receive an email and also in which scenario. When everything is filled in you can go back to the package.

Notification List ✓ Saved   

Search + New  Edit List  Delete   

User Name ↑	Contact Email	Send On
→ ADMIN	support@micro-apps.com	All

Everything is set up and the job queue package can now be activated using the “Set Job Queue Package Active” action via the action bar. You cannot edit anything anymore when the package is active. The status is changed and the next run time of the package is shown.

Job Queue Package ✓ Saved

✎ 🔗 + 🗑️

Run Package 1

Actions ▾ Related ▾ Automate ▾ ℹ️

General

Name	Run Package 1	Next Run Time	27-2-2023 00:00
Status	Ready	On Error	Continue with next job queue in...

Recurrences		Manage				
Recurrence	Earliest Start Date/Time	Expiration Start Date/Time	Next Run Date Formula	Starting Time	Ending Time	No. of Minutes between Runs
→ Monday	20-2-2023 00:00	1-4-2023 00:00				1440
Wednesday	1-3-2023 00:00			20:00:00		1440

The log entries of the package can also be viewed using the action “Log Entries” under “Related” in the action bar.

Job Queue Log Entries 🔖 📄 ↗️

🔍 Search Reports |
 Actions ▾ Automate ▾ Fewer options 🔗 🔍 ☰

📄 Details 🔗

Status	User ID	Description	Object Type to Run	Object ID to Run	Object Caption to
<u>Error</u>	ADMIN	Test Codeunit Run5 Error	Codeunit	50294	Test Codeunit F
Success	ADMIN	Test Codeunit Run1	Codeunit	50290	Test Codeunit F

To edit or pause the package, the package needs to be set to on hold via the action “Set Job Queue Package On Hold”. If a job queue entry is running at that moment, that entry will finish but the subsequent job queue entries will not run.