



SPOCPI – CORE COMPONENT FOR SPO-DATA-BASED APPLICATION

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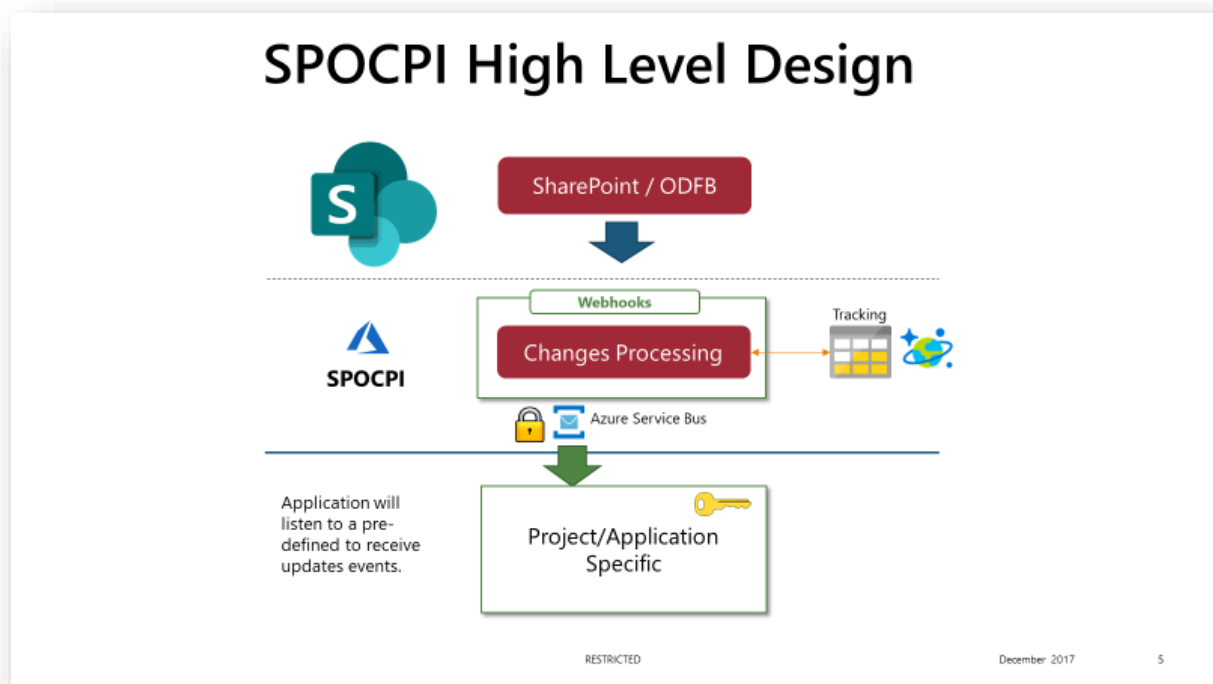
INTRODUCTION

SPOCPI is a cloud-based component, enabling more complex Data & AI integration for SharePoint Online.

Key concepts of SPOCPI

- Provides the core critical component to process any content sitting in SPO.
- Build on top of SPOCPI for complex data scenario
- Keeps track of document lifecycle
- Easy integration with your application
- Use market service technology like Microsoft Graph Webhooks
- Store documents technical information for tracking purposes
- Scalable technology while safeguarding SPO Service

ARCHITECTURE



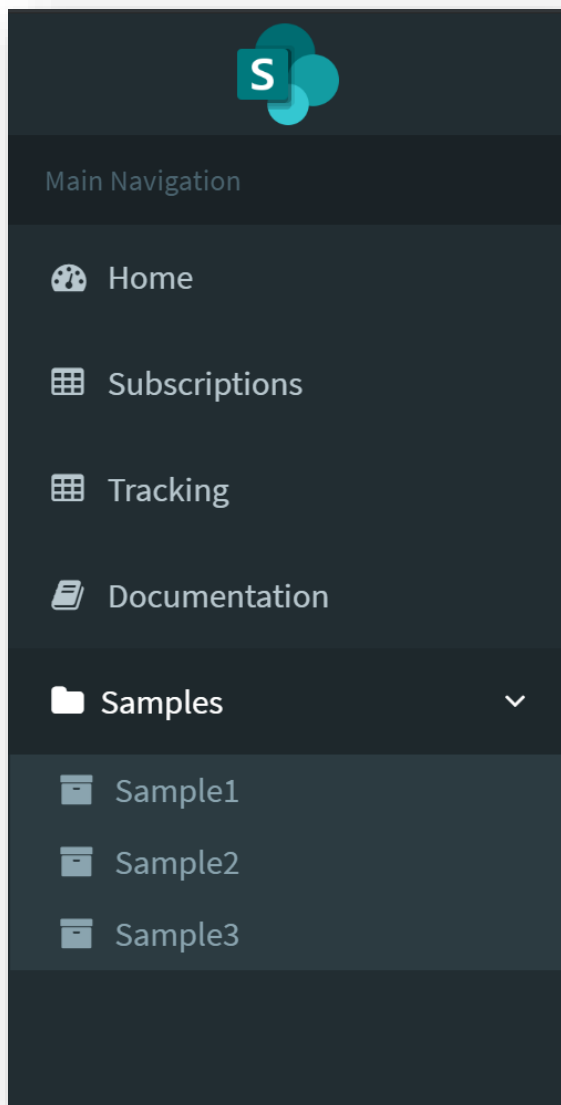
ADMINISTRATION



SPO Companion for Data & AI integration

SPOCPI Administration UI provide simple actions to manage your subscriptions.

It includes also a Sample menu as well showing how the current UI can be extended quickly to your application needs.



SUPPORTED BROWSERS

Chrome / Edge Chromium

SUBSCRIPTION

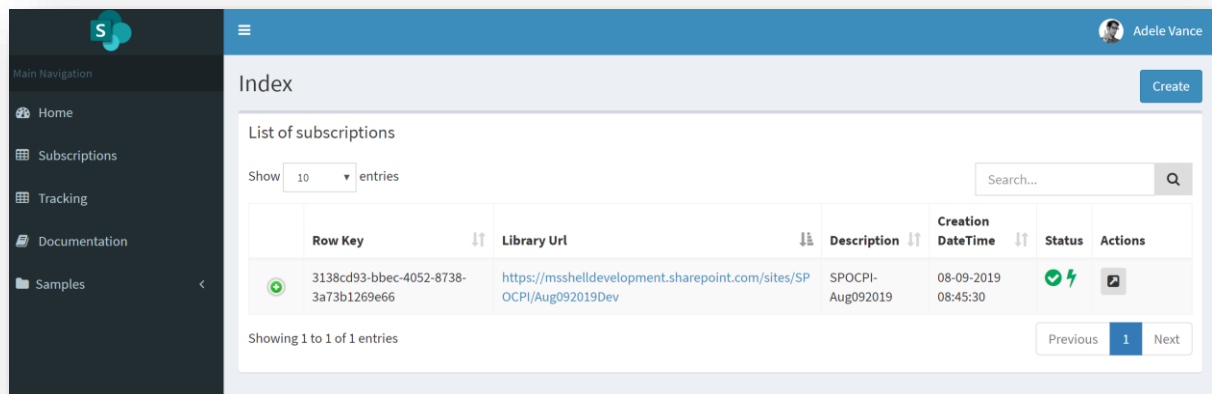


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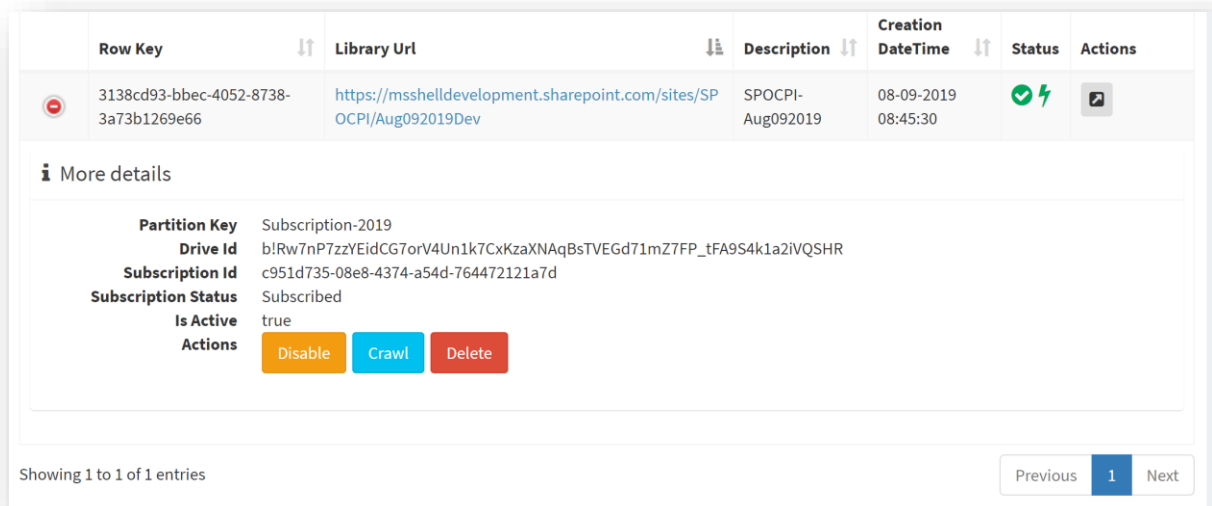
The Subscription action shows you the list of all configured Subscriptions whether it is active or not.

All Subscriptions actions are done in backend scheduled to run every minute.

The choice of batch mode is to ensure SPOCPI can administrate thousands of subscriptions.



The Expand button will trigger a details pane offering more subscriptions options



CREATION

On top right corner of the Subscriptions view, you will find the Create button.



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Index Create

List of subscriptions

Show entries Search...

	Row Key	Library Url	Description	Creation DateTime	Status	Actions
	f04076fe-8bb7-462f-bc3d-04065c6398e0	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/DocumentLibTesting	Testing-Reshma	08-16-2019 09:52:07		
	92766bbc-d86b-40ac-ab2c-3632299ed3f2	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/NUXDocLib1	NUXDocLib1 - DO NOT DELETE	08-12-2019 11:01:07		
	980840bf-31d0-4c16-91db-e76c63548895	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/NUXDocLib2	All you need is SPOCPI for your Data & AI	08-16-2019 12:16:05		

Showing 1 to 3 of 3 entries Previous 1 Next

The Create panel has two possibilities easy to understand

- Individual
- Bulk

INDIVIDUAL

Create one single subscription by providing

- **Site Url**: full url of the site
- **Library Url**: full url of the document library to subscribe to
- **Description**: add some free text to remind yourself what the subscription is all about
- **Is Active** : Boolean to mark the subscription as active or not. See next section for more on the Active status

Create

Subscriptions

☒ Individual ☐ Bulk

Site Url

Enter Site Url

Library Url

Enter Library Url

Description

Enter a description

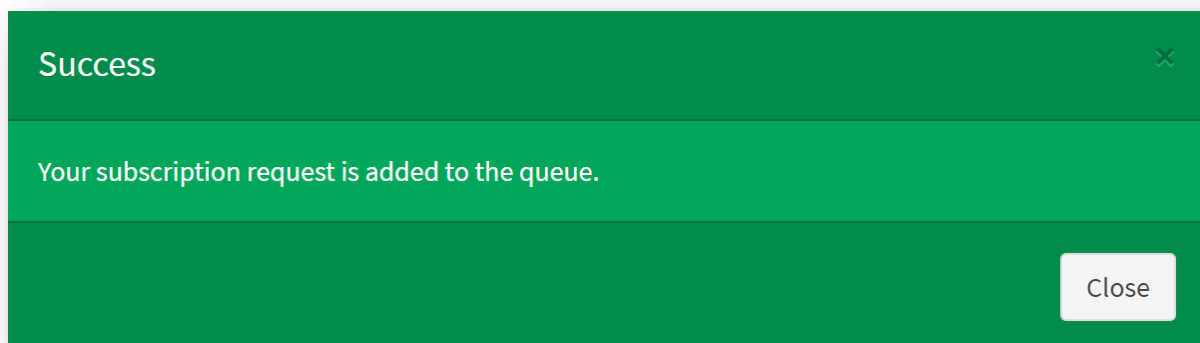
☐ Is Active

Submit



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A confirmation will appear indicating your subscription has been queued in the backend.



BULK

The bulk feature allows you to create a CSV file of all sites to subscribe to and upload that directly into SPOCPI.

A form titled "Create" with a tab labeled "Subscriptions". It features two radio buttons: "Individual" (selected) and "Bulk". Below these is a "File Input" section with a "Choose File" button and the text "No file chosen". A note below the file input says "Please upload a valid csv file, you can download the format [here](#)". At the bottom is a blue "Submit" button.

The current CSV Format is as follows

SiteUrl,LibraryUrl,IsActive

Please refer to the next section about the IsActive flag.

SUBSCRIPTION FLOW & STATUS

About Subscriptions status & actions

A subscription marked as Active will trigger the creation of the corresponding Subscription in SPO for the defined document library.

The activation process is done in the backend on a scheduled basis.

Once the subscription is connected to SPO, you will see a SPO subscription id in its details and also



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	92766bbc-d86b-40ac-ab2c-3632299ed3f2	https://msshelldevelopment.sharepoint.com/sites/SPOCP/NUXDocLib1	NUXDocLib1 - DO NOT DELETE	08-12-2019 11:01:07		
--	--------------------------------------	---	----------------------------	---------------------	--	--

More details

Partition Key	Subscription-2019
Drive Id	b!Rw7nP7zzYEidCG7orV4Un1k7CxKzaXNAqBsTVEGd71nZ9Ht7nkcwR6no2aiRCnnj
Subscription Id	ff7b8483-6387-4cd8-94e2-a140ebadf5df
Subscription Status	Subscribed
Is Active	true
Actions	<div>Disable Crawl Delete</div>

You can create non active subscriptions which you can activate later on (useful when bulk upload).

A non active subscription is shown as follows

ENABLE/DISABLE

You can disable an existing subscription to disconnect it from SPO. The subscription and its data will remain in SPOCPI Tables.

This feature allows you to stop listening to SPO changes from the configured document library.

You can re-enable it again at any time. A new SPO subscription will be recreated

DELETE

You can delete a subscription and all its tracking data.

Again, the deletion is done in the backend and will take up to 5 minutes to be reflected in the UI.

CRAWL

Upon your subscription active in SPO, the first notification from SPO will be triggered on the first changes happening to the targeted document library.

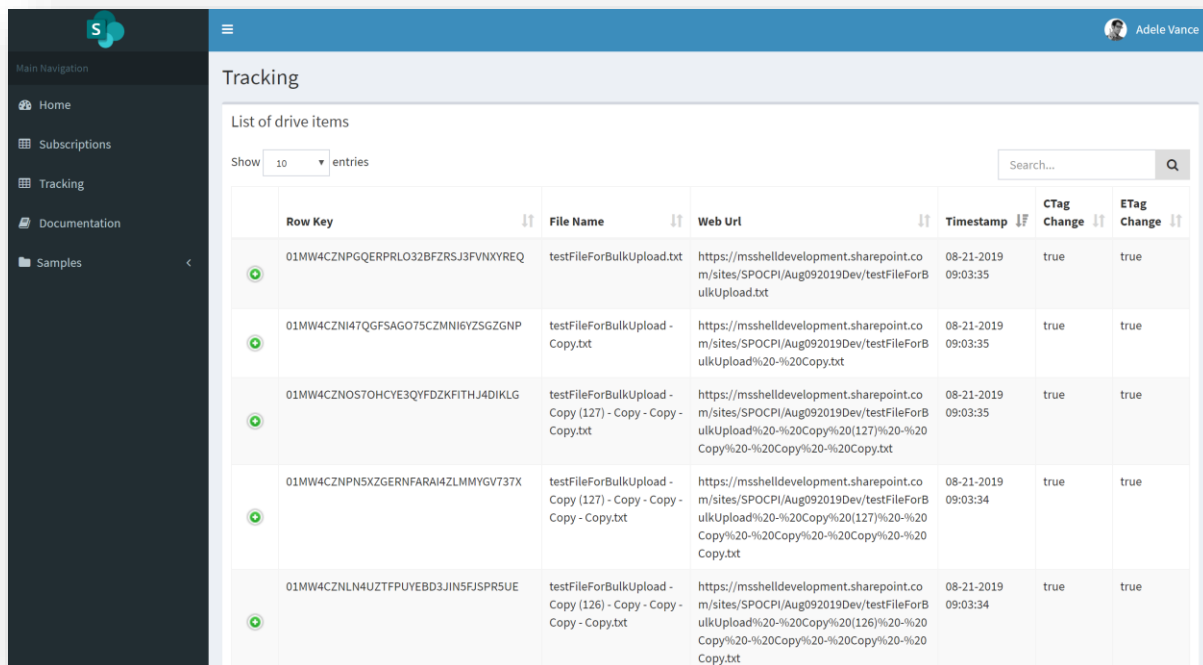
If no changes occur, you may want to trigger a Crawl. The Crawl action is simply simulating a SPO notification message sent to SPOCPI.

DOCUMENT CHANGES TRACKING

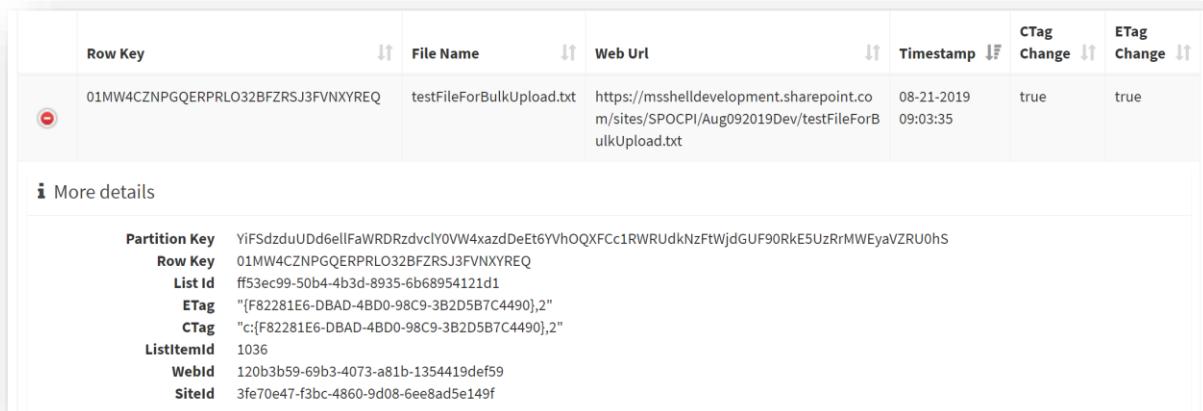


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The Tracking table is showing the document tracking information. One row per document across all current active subscriptions.



Row Key	File Name	Web Url	Timestamp	CTag Change	ETag Change
01MW4CZNPQGERPRL032BFZRSJ3FVNXYREQ	testFileForBulkUpload.txt	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/Aug092019Dev/testFileForBulkUpload.txt	08-21-2019 09:03:35	true	true
01MW4CZNI47QGFSAGO75CZMNI6YZSGZGNP	testFileForBulkUpload - Copy.txt	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/Aug092019Dev/testFileForBulkUpload%20-%20Copy.txt	08-21-2019 09:03:35	true	true
01MW4CZNO57OHCYE3QYFDZKFITHJ4DIKLG	testFileForBulkUpload - Copy (127) - Copy - Copy - Copy.txt	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/Aug092019Dev/testFileForBulkUpload%20-%20Copy%20(127)%20-%20Copy%20-%20Copy%20-%20Copy.txt	08-21-2019 09:03:35	true	true
01MW4CZNP5XZGERNFARAI4ZLMMYGV737X	testFileForBulkUpload - Copy (127) - Copy - Copy - Copy - Copy.txt	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/Aug092019Dev/testFileForBulkUpload%20-%20Copy%20(127)%20-%20Copy%20-%20Copy%20-%20Copy%20-%20Copy.txt	08-21-2019 09:03:34	true	true
01MW4CZNLN4U2TFPUYEBD3JIN5FJSR5UE	testFileForBulkUpload - Copy (126) - Copy - Copy - Copy - Copy.txt	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/Aug092019Dev/testFileForBulkUpload%20-%20Copy%20(126)%20-%20Copy%20-%20Copy%20-%20Copy%20-%20Copy.txt	08-21-2019 09:03:34	true	true



Row Key	File Name	Web Url	Timestamp	CTag Change	ETag Change
01MW4CZNPQGERPRL032BFZRSJ3FVNXYREQ	testFileForBulkUpload.txt	https://msshelldevelopment.sharepoint.com/sites/SPOCPI/Aug092019Dev/testFileForBulkUpload.txt	08-21-2019 09:03:35	true	true

More details

Partition Key YfSDzduUDd6ellFaWRDRzdvcly0VW4xazdDeEt6YVhOQXFCc1RWRUdkNzFwjdGUf90Rke5UzRrMWEyaVZRu0hS

Row Key 01MW4CZNPQGERPRL032BFZRSJ3FVNXYREQ

List Id ff53ec99-50b4-4b3d-8935-6b68954121d1

ETag "[F82281E6-DBAD-4BD0-98C9-3B2D5B7C4490],2"

CTag "c:[F82281E6-DBAD-4BD0-98C9-3B2D5B7C4490],2"

ListItemId 1036

WebId 120b3b59-69b3-4073-a81b-1354419def59

SiteId 3fe70e47-f3bc-4860-9d08-6ee8ad5e149f

There are no predefined actions on Documents.

You may refer to the Samples source code to see how actionable can be integrated easily.



SAMPLES

The samples section highlights how you can take plug your application specific into SPOCPI.

To run the Samples, open the source code in Visual Studio. Run the Samples Function locally.

SAMPLE1

Capture the latest batches of updates given by SPOCPI.

SAMPLE2

Capture the latest deleted documents across all Document Libraries

SAMPLE3

Capture the updates of the biggest files across all Document Libraries.