



**SAP**<sup>®</sup> Partner  
Open Ecosystem

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Consulting

## Znk – Innovative SAP add-ons: YAC with SharePoint

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YAC - All you SAP documents accessible anywhere from any device  
Integration with MS SharePoint Online – **Procurement** Demo Screen Captures

Znk Consulting Sàrl, 2020

# YAC – Your Attachments Connector Demo

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Procurement - Suppliers, Contracts and Invoices

# SharePoint Integration Demo Script

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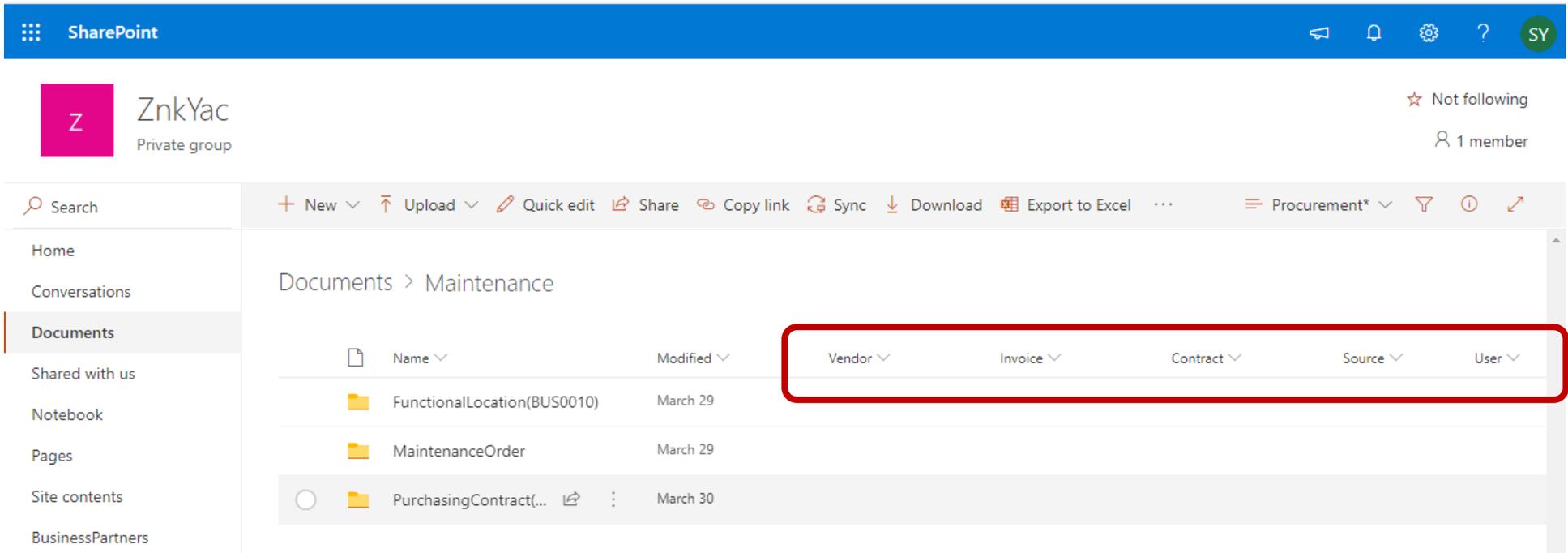
- Attachments to Invoices, SAP to SharePoint
- Attachments to Supplier Contracts, SAP to SharePoint
- Various SAP Uis, Fiori Apps, etc.
- YAC Configuration: SharePoint, Metadata
- SharePoint « Workspaces »: Different possible views

<b>Invoice (BUS2081)</b>	<b>Contract (BUS2014)</b>	<b>Vendor</b>	<b><i>Vendor Name</i></b>
<b>5100000273 2019</b>	<b>4600000129</b>	<b>25300001</b>	Your Box Custom
<b>5100000274 2019</b>	<b>4600000133</b>	<b>25300001</b>	Your Box Custom
<b>5100000272 2019</b>	<b>4600000116</b>	<b>25300006</b>	The Box Maker

- **Invoice, Contract and Vendor** are defined as Metadata in SharePoint
  - Invoice is the invoice number and date in the form « 5100000273-2019 »
  - Contract is the contract number and currency in the form « 4600000129 (EUR) »
  - Vendor is the vendor name and number « The Box Maker (25300006) »
- + **Source** added also as 4th Metadata to identify to which SAP object the document is attached
- + **User** added as 5th Metadata to store the SAP user

# Views in SharePoint

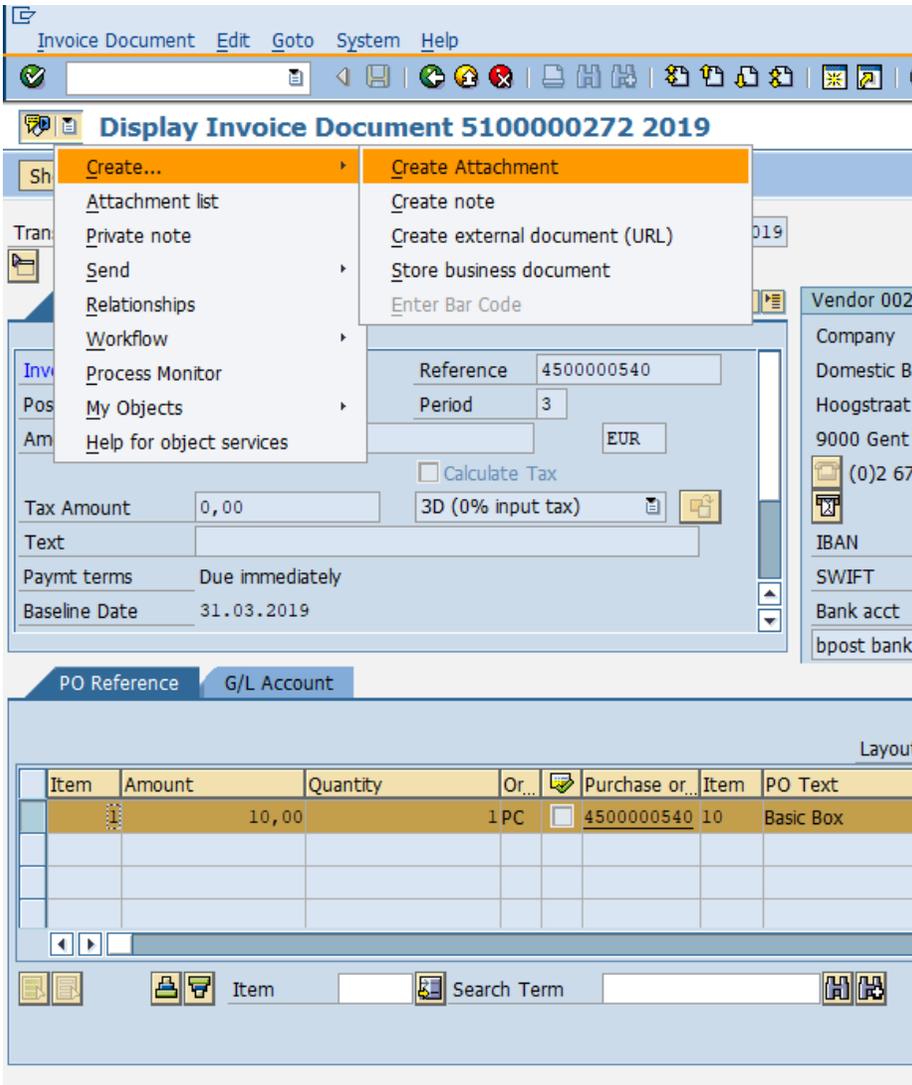
- Selecting the view « Procurement » already displays the Metadata in columns, we'll see how it looks like when documents are coming...



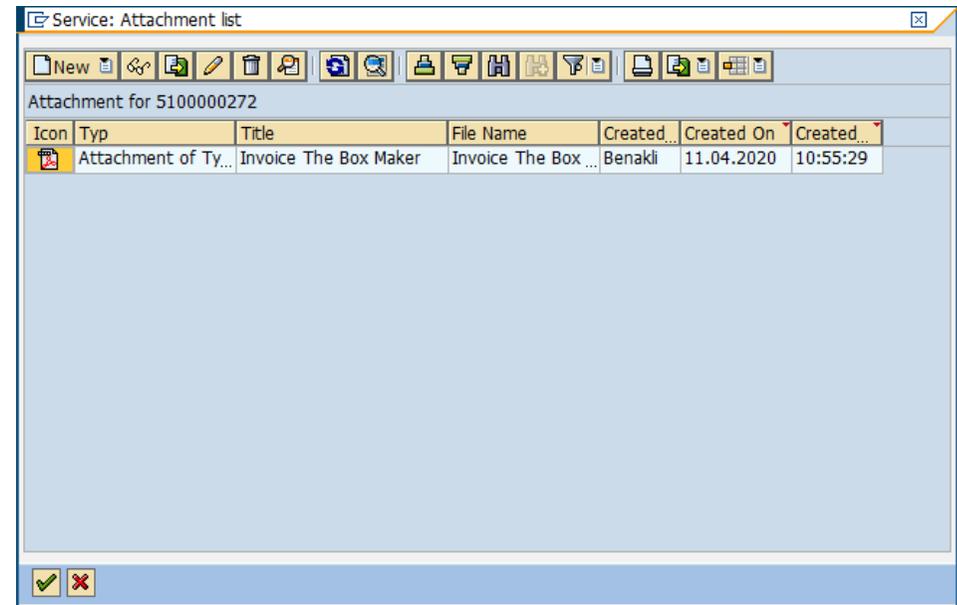
- On Start the root « Procurement » folder doesn't even exist !
- All folders and sub-folders will be generated by YAC on basis of its configuration

- **Attachments to Invoices, SAP to SharePoint**
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# Attachment to invoice from « The Box Maker » vendor



- No attachments present initially
- We'll simply add the invoice pdf as attachment here. Once done:



- -> Immediately in SharePoint...

# Invoice from « The Box Maker » - SharePoint

ZnkYac Private group

Search

+ New Upload Quick edit Share Copy link

Home

Conversations

Documents

Shared with us

Notebook

Documents > Procurement > Invoices > 2019

Name	Modified
5100000272	About a minute ago

- Documents automatically added in generated folder structures, here invoice year used as sub-folder
- Metadata updated automatically, see Vendor, Invoice, Source and User
- Contract metadata is empty as for this demo no link in the Invoice

SharePoint

Navigation icons: Home, Notifications, Settings, Help, User (SY)

ZnkYac Private group

☆ Not following

1 member

Search

+ New Upload Quick edit Share Copy link Sync Download Export to Excel Procurement

Documents > Procurement > Invoices > 2019 > 5100000272

Name	Modified	Vendor	Invoice	Contract	Source	User
Invoice The Box Maker.pdf	About a minute ago	The Box Maker (0025300006)	5100000272-2019		IncomingInvoice	BENAKKA

# Other attachments to invoices added in SAP



Search

+ New Upload Quick edit Share Copy link Sync

Documents > Procurement > Invoices > 2019

Name	Modified	Ver
5100000272	49 minutes ago	
5100000273	About a minute ago	
5100000274	About a minute ago	

- The metadata 'Source' indicates to which SAP object the attachment was initially added
- The metadata 'User' indicates the SAP user-id of the user having added the attachment
- We can of course have multiple attachments example here with a list of completed tasks in excel added to justify the invoice



☆ Not following  
1 member

Search

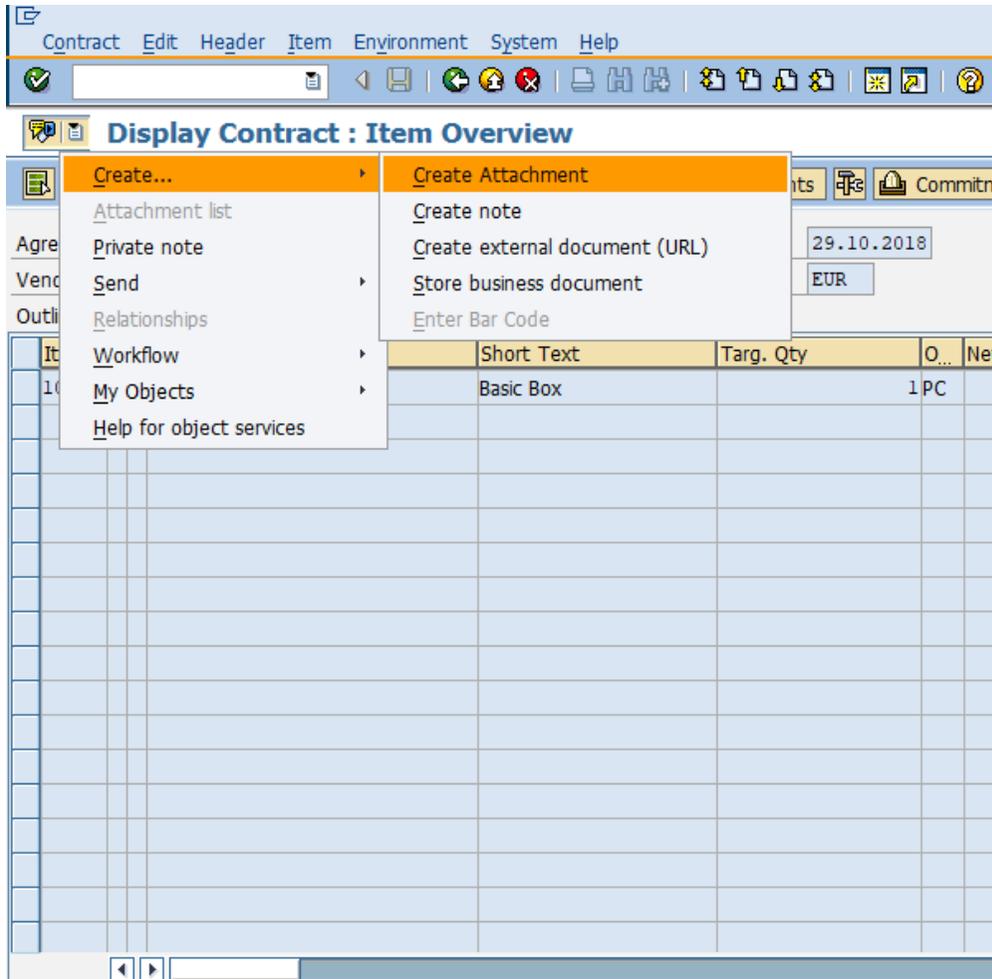
+ New Upload Quick edit Share Copy link Sync Download Export to Excel Procurement

Documents > Procurement > Invoices > 2019 > 5100000274

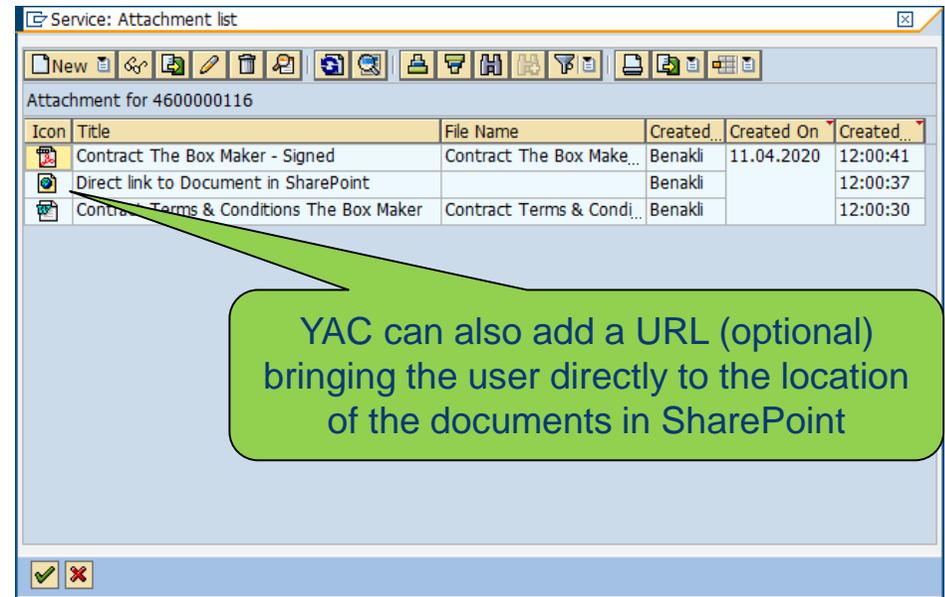
Name	Modified	Vendor	Invoice	Contract	Source	User
Invoice Your Box 2.pdf	About a minute ago	Your Box Custom (0025300001)	5100000274-2019		IncomingInvoice	BENAKKA
Task List - Servers.xlsx	A few seconds ago	Your Box Custom (0025300001)	5100000274-2019		IncomingInvoice	BENAKKA

- Attachments to Invoices, SAP to SharePoint
- **Attachments to Supplier Contracts, SAP to SharePoint**
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# Supplier Contract for « The Box Maker »



- In the same manner we add attachments to Supplier Contracts
- Usually word version of the contract and signed pdf version, but of course any other attachment can be added



YAC can also add a URL (optional) bringing the user directly to the location of the documents in SharePoint

- -> Immediately in SharePoint...

# Attachments to Contracts in SharePoint



- For Contracts we have configured YAC so that the contract currency is added in () as part of the metadata
- We could also have an upper folder as we did for example with the year for the invoice

Documents > Procurement > Contracts

Name	Modified
4600000116	21 minutes ago
4600000129	7 minutes ago
4600000133	A few seconds ago

Documents > Procurement > Contracts > 4600000116

Name	Modified	Vendor	Invoice	Contract	Source	User
Contract Terms -and- Condition...	About a minute ago	The Box Maker (0025300006)		4600000116(EUR)	PurchasingContra ct	BENAKKA
Contract The Box Maker - Signe...	A few seconds ago	The Box Maker (0025300006)		4600000116(EUR)	PurchasingContra ct	BENAKKA

# SharePoint Integration Demo Script

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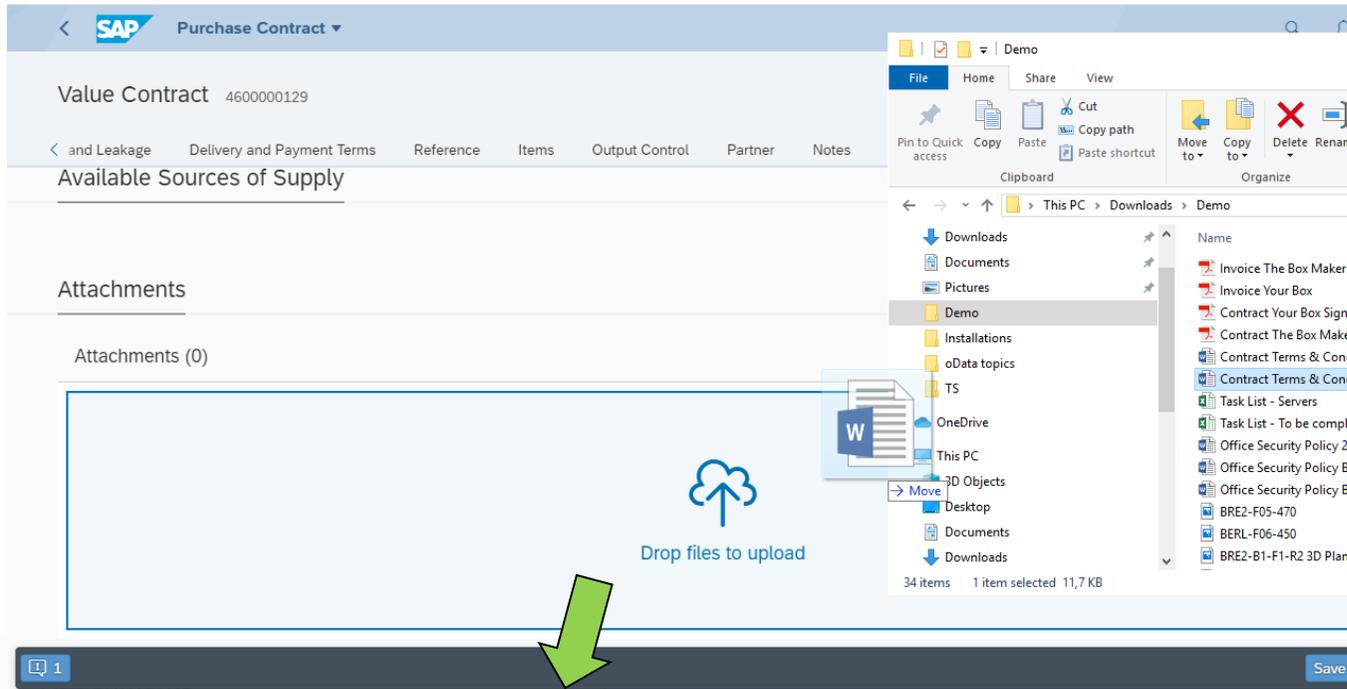
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# YAC Supports all SAP User Interfaces

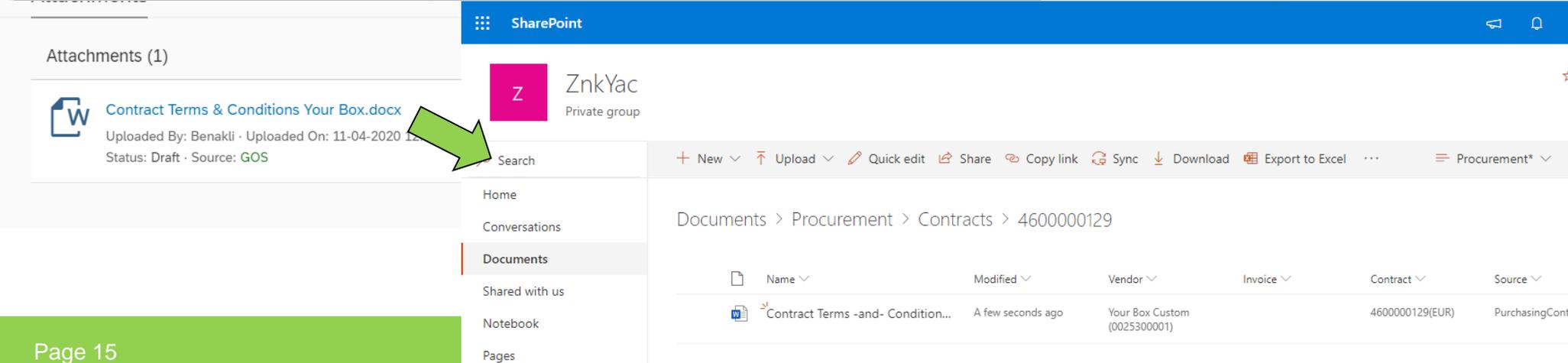
- As YAC is implemented as pure ABAP and plugged directly into the central attachment functions of SAP, it natively supports all attachments types and all User Interfaces: SAP GUI, WebGUI, WebDynpro, Fiori Apps, etc.

The screenshot displays the SAP Fiori 'Purchase Contract' interface. The top header shows 'SAP Purchase Contract' with search, notification, and user icons. The main content area is divided into two sections. The upper section displays contract details for 'Value Contract 4600000129', including 'Purchasing Organization: Purch. Org. 2510 (2510)', 'Supplier: 25300001', 'Consumption Percentage' (with a progress bar), 'Approval Status: Workflow not applicable', and 'Supplier Evaluation Rating: ★★★★★'. The lower section shows 'Purchasing Document Status' and a navigation menu with tabs: 'General Information', 'Release Order Documents', and 'Contract Consumption and Lea...'. The 'General Information' tab is active, showing 'Contract Type: Value Contract (WK)', 'Created on: 02.10.2019', 'Valid From: 01.10.2019', 'Valid To: 21.11.2019', 'Test purchase contract:', and 'Predicted Expiry Date:'. A secondary navigation bar below the tabs includes 'and Leakage', 'Delivery and Payment Terms', 'Reference', 'Items', 'Output Control', 'Partner', 'Notes', 'Legal Transactions', 'Available Sources of Supply', and 'Attachments'. The 'Attachments' section is currently selected, showing 'Attachments (0)' and a large green arrow pointing to it with the text 'Example on Purchase Contract, down to the attachment section'. Below the attachment list, there is a message: 'No entries found. Drop files to upload, or use the "+" button.' with an 'Add a Link +' button.

# YAC Supports all SAP User Interfaces – Fiori Apps



- Fiori Apps support Drag & Drop
- Once the attachment is added to the App and saved it is automatically sent to SharePoint
- In SharePoint, it is stored within automatically generated folder structure, with configured metadata



# SharePoint Integration Demo Script

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# YAC SharePoint Configuration

- For SharePoint Online: 2 RFC destinations must be defined, one to your SharePoint site, one to the standard Microsoft Security Token Server

**RFC Destination MSSP**

Connection Test

RFC Destination: MSSP

Connection Type: HTTP Connection to External Server

Description:

Description 1: MSSP

Description 2:

Description 3:

Administration | Technical Settings | Logon & Security | Special Options

Target System Settings

Host: znkconsulting.sharepoint.com

Path Prefix:

**RFC Destination MSSP\_STS**

Connection Test

RFC Destination: MSSP\_STS

Connection Type: HTTP Connection to External Server

Description:

Description 1: MSSP Secure Token Service

Description 2:

Description 3:

Administration | Technical Settings | Logon & Security | Special Options

Target System Settings

Host: login.microsoftonline.com

Path Prefix: /extSTS.srf

- Then in YAC you have to indicate which are the RFCs to be used and the user-id/password of the SharePoint 'YAC' user

## Display View "YAC Setup MS SharePoint Secure Token Service Configurati

MSSP Server	MS STS Server	User Name	Password
MSSP	MSSP_STS	karim.benakli@znkconsulting.onmicrosoft.com	

# YAC Target Folders Configuration

- By default the folder where the attachments are stored is created as
  - <ObjectDescription>( <ObjectType>)/<ObjectKey>
  - E.g.: .../SupplierInvoice(BUS2081)/51000002732019
- However this is freely configurable, system fields can be used as well as fields coming from the tables of the object.
- For our demo we've configured the Invoice folders so that Invoice Year is used as sub-folder, and Contract with simple key being the contract number

## Display View "YAC Business Objects": Overview

Cont.Rep.ID

Object type	Target Path
BUS2014	MSSP:/sites/ZnkYac:/Shared Documents/Procurement/Contracts/<objkey>
BUS2081	MSSP:/sites/ZnkYac:/Shared Documents/Procurement/Invoices/<rbkp-GJAHR>/<rbkp-belnr>
MESSAGE	/usr/sap/tmp/yac:

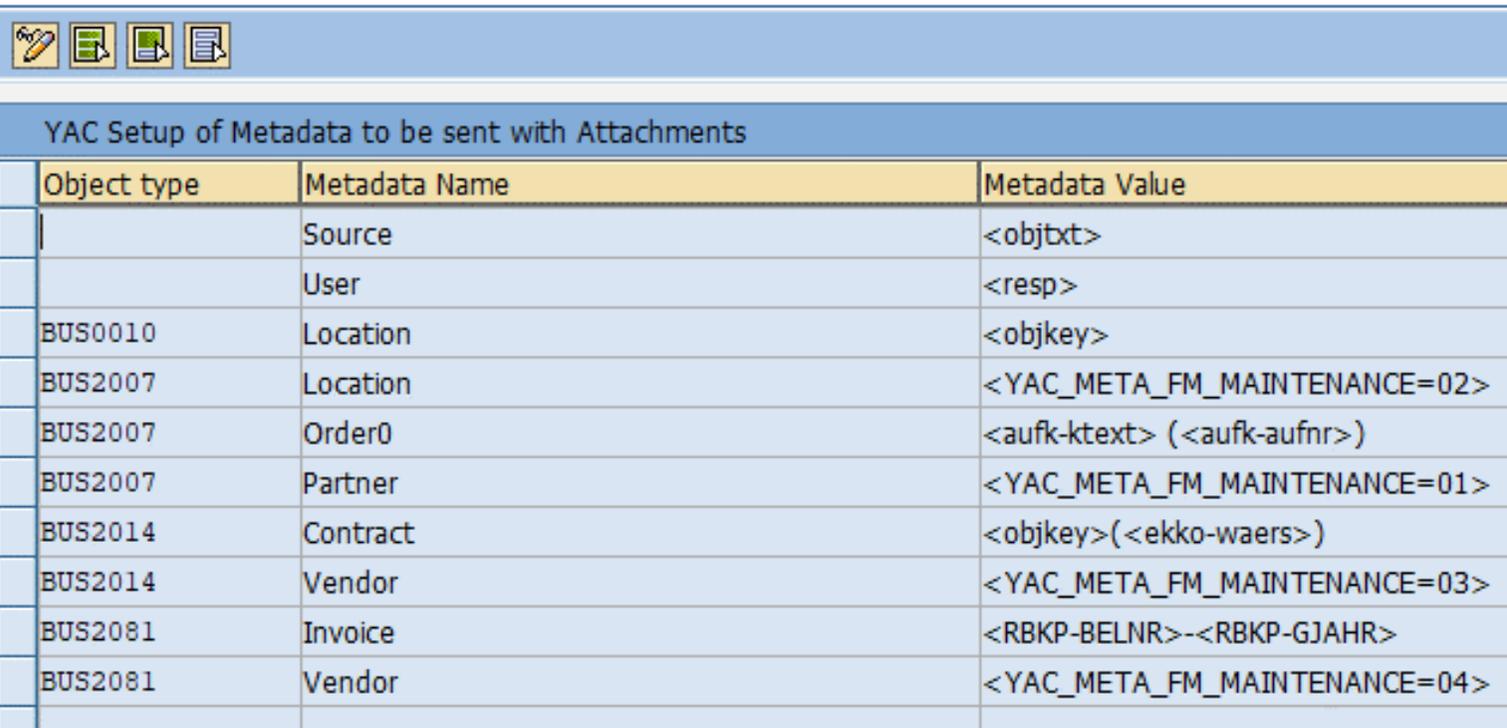
For Contracts we simply use the Contract Number

For invoices we define a second sub-folder on basis of the invoice year, and then we use the invoice number

# YAC Metadata Configuration

- Metadata values can be freely configure by making use of system tables, objects tables data and function modules
- For this demo the following configuration is used:

## Display View "YAC Setup of Metadata to be sent with Attachments": Over



The screenshot shows a SAP table titled "YAC Setup of Metadata to be sent with Attachments". The table has three columns: "Object type", "Metadata Name", and "Metadata Value". The data rows are as follows:

Object type	Metadata Name	Metadata Value
	Source	<objtxt>
	User	<resp>
BUS0010	Location	<objkey>
BUS2007	Location	<YAC_META_FM_MAINTENANCE=02>
BUS2007	Order0	<aufk-ktext> (<aufk-aufnr>)
BUS2007	Partner	<YAC_META_FM_MAINTENANCE=01>
BUS2014	Contract	<objkey>(<ekko-waers>)
BUS2014	Vendor	<YAC_META_FM_MAINTENANCE=03>
BUS2081	Invoice	<RBKP-BELNR>-<RBKP-GJAHR>
BUS2081	Vendor	<YAC_META_FM_MAINTENANCE=04>

Part of the configuration is for all objects, other part is object specific

YAC\_META\_FM\_MAINTENANCE is a function module used for returning the Vendor name and key from the Contract (with 03) and Invoice (with 04)

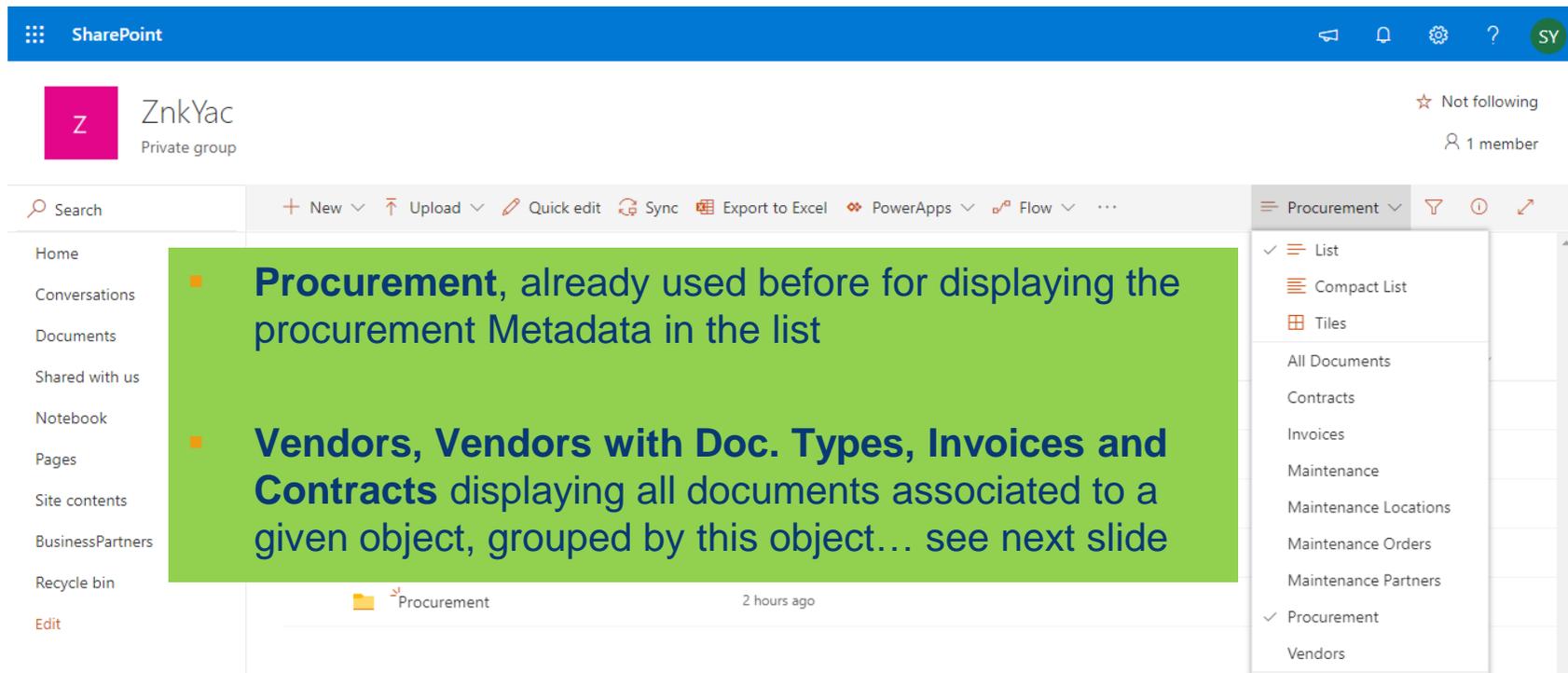
# SharePoint Integration Demo Script

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# SharePoint Views

- SharePoint views can be very easily defined and configured on basis of various elements, including metadata.
- For the demo we've defined 5 views:



# SharePoint View – Vendors

View on all documents per Vendor. Note that for this demo there are no documents attached to Vendors in SAP, the view is fully generated on basis of the Vendor metadata

SharePoint

ZnkYac  
Private group

Not following  
1 member

- Search
  - Home
  - Conversations
  - Documents
  - Shared with us
  - Notebook
  - Pages
  - Site contents
  - BusinessPartners
  - Recycle bin
  - Edit
- [Return to classic SharePoint](#)

Documents

Name	Modified	Invoice	Contract	Source	User
Vendor : The Box Maker (0025300006) (3)					
Vendor : Your Box Custom (0025300001) (6)					
Contract Terms -and- Conditions Your Box...	24 minutes ago		460000129(EUR)	PurchasingContract	BENAKKA
Contract Your Box Signed.pdf	20 minutes ago		460000133(EUR)	PurchasingContract	BENAKKA
Invoice Your Box 2.pdf	49 minutes ago	510000274-2019		IncomingInvoice	BENAKKA
Invoice Your Box.pdf	49 minutes ago	510000273-2019		IncomingInvoice	BENAKKA
Office Security Policy 2020.docx	19 minutes ago		460000133(EUR)	PurchasingContract	BENAKKA
Task List - Servers.xlsx	48 minutes ago	510000274-2019		IncomingInvoice	BENAKKA

# SharePoint View – Vendors with Doc. Type

SharePoint

We can complete the view with a sub-grouping by Source metadata, allowing to have the attachments classified by type (Invoice, Contract) under the Vendor



Not following  
1 member

Search

New Upload Sync Export to Excel PowerApps Flow ...

Vendors and Doc. Types Filter Refresh

- Home
- Conversations
- Documents
- Shared with us
- Notebook
- Pages
- Site contents
- BusinessPartners
- Recycle bin
- Edit

## Documents

>	Name	Modified	Invoice	Contract	User	+ Add
▼	Vendor : The Box Maker (0025300006) (3)					
▼	Source : IncomingInvoice (1)					
	Invoice The Box Maker.pdf	2 hours ago	5100000272-2019		BENAKKA	
▼	Source : PurchasingContract (2)					
	Contract Terms -and- Conditions The Box ...	About an hour ago		4600000116(EUR)	BENAKKA	
	Contract The Box Maker - Signed.pdf	About an hour ago		4600000116(EUR)	BENAKKA	
▼	Vendor : Your Box Custom (0025300001) (6)					
>	Source : IncomingInvoice (3)					
>	Source : PurchasingContract (3)					

[Return to classic SharePoint](#)

# SharePoint View - Contracts

We can also of course create simple Views on any other metadata, example given here on the Contract, with a selection of the metadata displayed in columns

☆ Not following  
👤 1 member

Search

+ New Upload Sync Export to Excel PowerApps Flow ... Contracts Filter Info Refresh

### Documents

Name	Modified	Vendor	Source	User	+ Add column
Contract : 4600000116(EUR) (2)					
Contract Terms -and- Conditions The Box ...	27 minutes ago	The Box Maker (0025300006)	PurchasingContract	BENAKKA	
Contract The Box Maker - Signed.pdf	26 minutes ago	The Box Maker (0025300006)	PurchasingContract	BENAKKA	
Contract : 4600000129(EUR) (1)					
Contract : 4600000133(EUR) (2)					
Contract Your Box Signed.pdf	23 minutes ago	Your Box Custom (0025300001)	PurchasingContract	BENAKKA	
Office Security Policy 2020.docx	22 minutes ago	Your Box Custom (0025300001)	PurchasingContract	BENAKKA	

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# SharePoint View - Invoices

Same here, simple view of the Invoices, with a selection of the metadata displayed in columns.  
**New Views are created in a couple of minutes !!!**

☆ Not following  
👤 1 member

Search

+ New Upload Sync Export to Excel PowerApps Flow ...

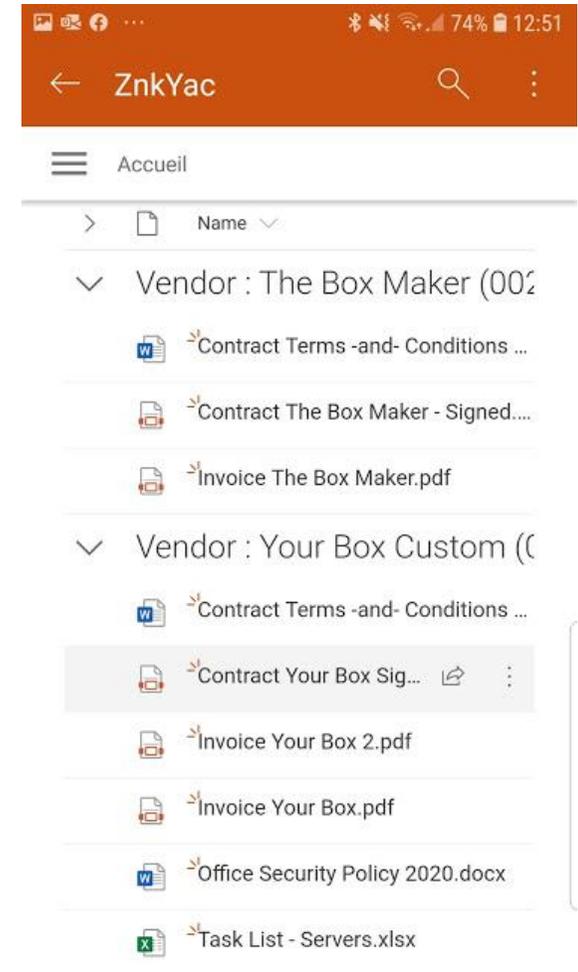
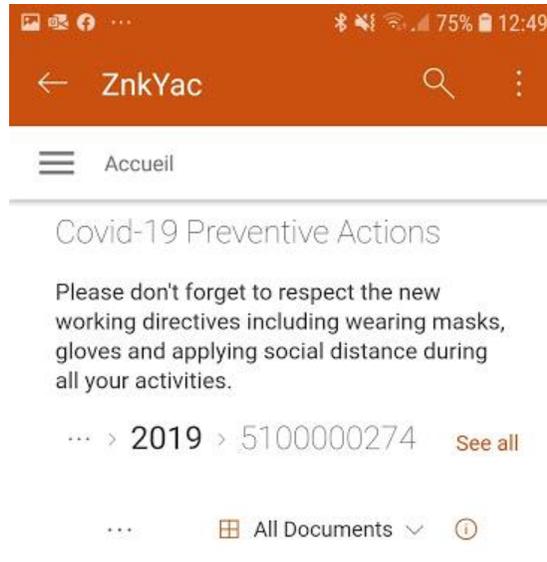
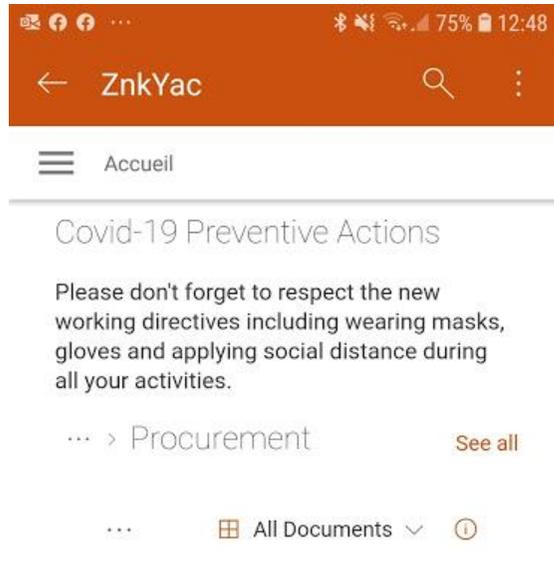
Invoices

### Documents

Name	Modified	Vendor	Source	User	+ Add column
Invoice : 5100000272-2019 (1)					
Invoice The Box Maker.pdf	About an hour ago	The Box Maker (0025300006)	IncomingInvoice	BENAKKA	
Invoice : 5100000273-2019 (1)					
Invoice Your Box.pdf	About an hour ago	Your Box Custom (0025300001)	IncomingInvoice	BENAKKA	
Invoice : 5100000274-2019 (2)					
Invoice Your Box 2.pdf	About an hour ago	Your Box Custom (0025300001)	IncomingInvoice	BENAKKA	
Task List - Servers.xlsx	About an hour ago	Your Box Custom (0025300001)	IncomingInvoice	BENAKKA	

[Return to classic SharePoint](#)

# SharePoint Mobile App



All Views can also be used on the SharePoint Mobile App

All your SAP documents are available anytime, anywhere and from any device !

# Perfect SAP and SharePoint Documents Integration !

Contract Edit Header Item Environment System Help

**Display Contract : Item Overview**

Account Assignments Commitment Plan

Agreement 4600000133 Agreement Type WK Agmt Date 10.10.2019  
 Vendor 25300001 Domestic BE Supplier 1 2 Currency EUR

Outline Agreement Items

Item	Material	Short Text	Targ. Qty	O.	Net Price	Pe
1		Service: Attachment list				1

Attachment for 4600000133

Icon	Type	Title	File Name	Created	Created On	Created...
	Attachment of Ty...	Office Security Policy 20...	Office Security P...	Benaki	11.04.2020	12:21:25
	Link to Internet P...	Direct link to Document ...		Benaki		12:21:19
	Attachment of Ty...	Contract Your Box Signed	Contract Your B...	Benaki		12:21:11

SharePoint

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Press F11 to exit full screen

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Documents

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Vendor : The Box Maker (0025300006) (3)					
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Contract Terms -and- Conditions Your Box...	24 minutes ago		4600000129(EUR)	PurchasingContract	BENAKI
Contract Your Box Signed.pdf	20 minutes ago		4600000133(EUR)	PurchasingContract	BENAKI
Invoice Your Box 2.pdf	49 minutes ago	5100000274-2019		IncomingInvoice	BENAKI
Invoice Your Box.pdf	49 minutes ago	5100000273-2019		IncomingInvoice	BENAKI
Office Security Policy 2020.docx	19 minutes ago		4600000133(EUR)	PurchasingContract	BENAKKA
Task List - Servers.xlsx	48 minutes ago	5100000274-2019		IncomingInvoice	BENAKKA

Return to classic SharePoint

ZnkYac

Accueil

Covid-19 Preventive Actions

Please don't forget to respect the new working directives including wearing masks, gloves and applying social distance during all your activities.

2019 > 5100000274 See all

All Documents

Invoice Your Box 2.pdf About an hour ago

Task List - Servers.xlsx About an hour ago

ZnkYac

Accueil

Vendor : The Box Maker (0025300006) (3)

- Contract Terms -and- Conditions ...
- Contract The Box Maker - Signed...
- Invoice The Box Maker.pdf

Vendor : Your Box Custom (0025300001) (6)

- Contract Terms -and- Conditions ...
- Contract Your Box Sig...
- Invoice Your Box 2.pdf
- Invoice Your Box.pdf
- Office Security Policy 2020.docx
- Task List - Servers.xlsx



Thank you very much!

**Karim Benakli**  
Manager

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