Customer Invoice Attachment and Output Document Extraction for SAP Business ByDesign

This application is designed to allow you to easily download the attachments saved in the customer invoices and the output documents created by the customer invoices within your SAP Business ByDesign system, using a simple list of the customer invoice IDs as the input file.

The input file is a simple list of the customer invoices that you want to download the attachments or output documents for, with one invoice ID per line and saved as either a CSV or a text file.

An example is:

CUSTINV001
CUSTINV002
CUSTINV003

Before you can use the application, you need to go to the application preferences to configure the SAP Business ByDesign system details:
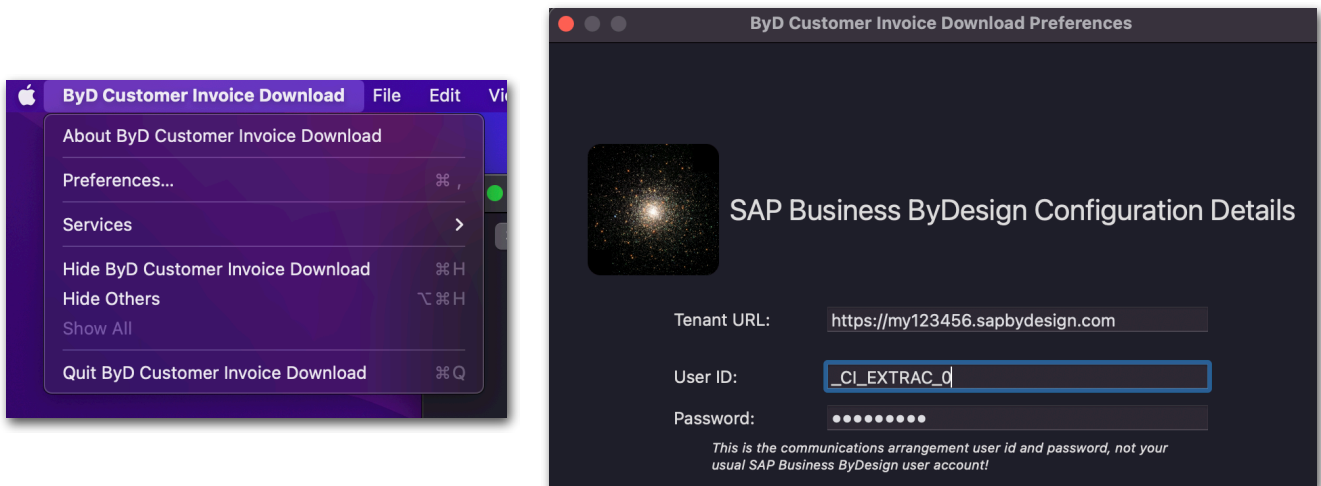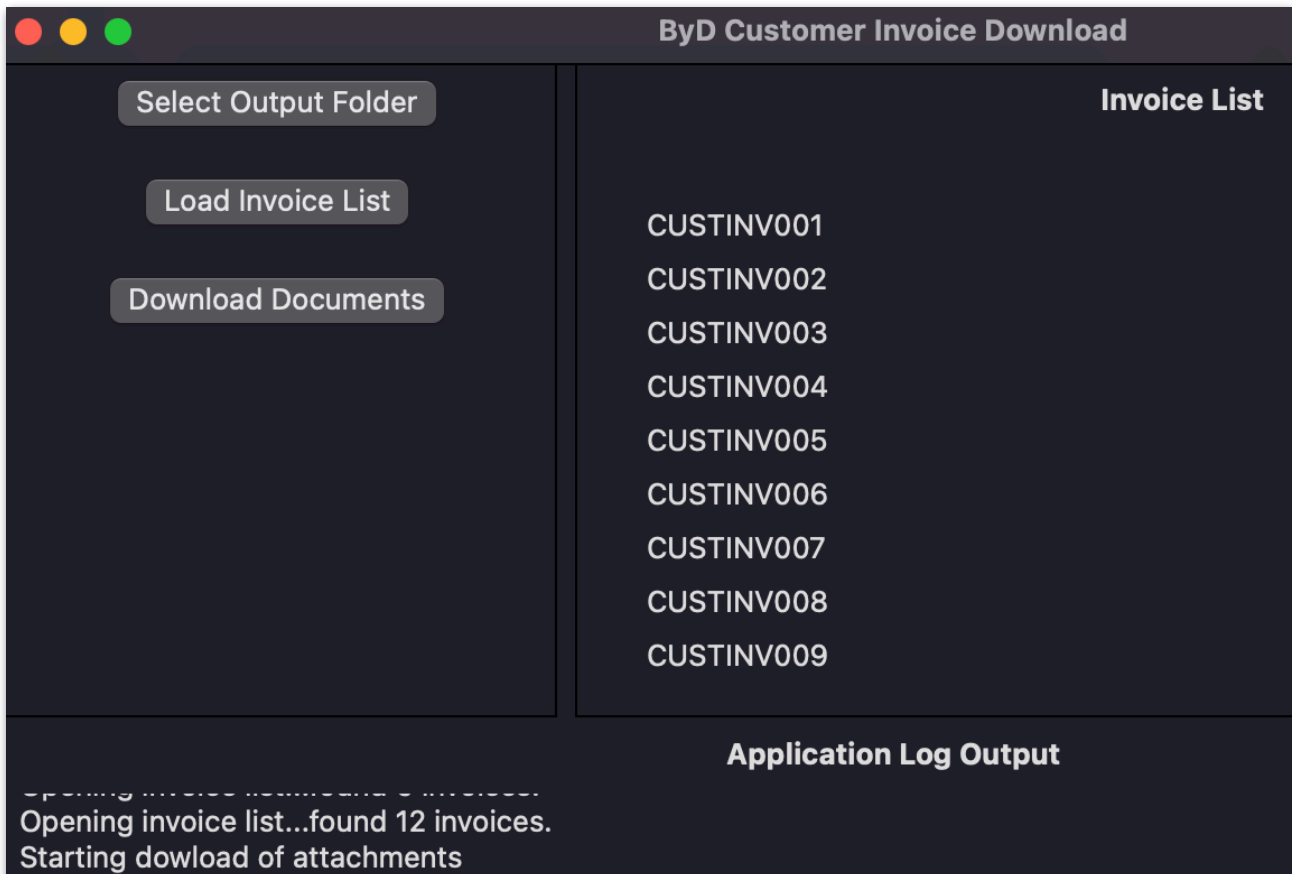
Once the SAP Business ByDesign system details have been entered you can then select the output folder where any attachments or output documents will be saved once downloaded. The application will automatically create a new folder for each invoice ID with the folder name the same as the invoice ID and any downloaded attachments or output documents within these sub folders.

After selecting the output folder you can then load the list of invoice IDs which will appear on the right hand side of the application window.

To commence the download of the invoice attachments and output documents, click the 'Download Documents' button.

On the lower half of the screen you can see an output log showing you what the application is doing and if there are any error messages. If for some reason the download stops you can just click the 'Download Documents' button to restart the download again, continuing from where it left off.

As each invoice is processed, the invoice ID is removed from the list to invoices to process but please be aware that the attachment or output document download could still be processing in the background.

ByD Customer Invoice Download	
Select Output Folder	**Invoice List**
Load Invoice List	CUSTINV001
	CUSTINV002
Download Documents	CUSTINV003
	CUSTINV004
	CUSTINV005
	CUSTINV006
	CUSTINV007
	CUSTINV008
	CUSTINV009
	Application Log Output
Opening invoice list...found 12 invoices.	
Starting dowload of attachments	

The next section explains how to set up your SAP Business ByDesign system so that it works with this application.

Communication Scenarios

Create a new communication scenario:

Communication Scenario Name: Customer Invoice Attachment Extraction

	Release Status	Operation Description	Service Description		Service Name		Dependent Object Service

Communication Scenario Name: * `Customer Invoice Attachment Extraction`

Assigned Operations

Remove | Add Operations

	Release Status	Operation Description	Service Description	Service Name	Dependent Object Service
	☐	Read attachment folder documents	Manage Attachment Folders	ManageAttachmentFolderIn	☑
	☐	Find customer invoices	Query Customer Invoices	QueryCustomerInvoiceIn	☐
	☐	Find document output request	Query Document Output Request	QueryDocumentOutputRequestIn	☐
	☐	Read document output request pdf	Query Document Output Request	QueryDocumentOutputRequestIn	☐
	☐	Read document output request xml	Query Document Output Request	QueryDocumentOutputRequestIn	☐

Details ⓘ

Business Object Proxy Name:	`APCI_CUSTOMER_INVOICE`
Business Object Name:	CustomerInvoice
Business Object Namespace:	http://sap.com/xi/AP/CustomerInvoicing/Global

Add the following operations:

Service Name: QueryCustomerInvoiceIn

Available Operations

Add Ope…	Release Status	Operation Description		Service Description		Service Name
☐	☐	Find customer invoices		Query Customer Invoices		QueryCustomerInvoiceIn

Service Name: ManageAttachmentFolderIn (Business Object Name = CustomerInvoice)

Available Operations

Add Ope…	Release Status	Operation Description		Service Description		Service Name
☑	☐	Read attachment folder documents		Manage Attachment Folders		ManageAttachmentFolderIn

Details ⓘ

Business Object Proxy Name:	`APCI_CUSTOMER_INVOICE`
Business Object Name:	CustomerInvoice
Business Object Namespace:	http://sap.com/xi/AP/CustomerInvoicing/Global

Service Name: QueryDocumentOutputRequestIn (*select all three options*)

Add Ope...	Release Status	Operation Description	Service Description	Service Name	De Ob ser
☑	☐	Find document output request	Query Document Output Request	QueryDocumentOutputRequ...	[
☑	☐	Read document output request pdf	Query Document Output Request	QueryDocumentOutputRequ...	[
☑	☐	Read document output request xml	Query Document Output Request	QueryDocumentOutputRequ...	[

Click "Save and Close"

Communication Systems

Create a new communication system:

- **ID**: CI-EXTRACT
- **Host Name**: CI-EXTRACT
- **System Access Type**: Internet

Add a system instance ID: CI-EXTRACT – Web Service

Click "Actions" and then "Set to Active":

Click "Save and Close"

Communications Arrangement

Create a new communications arrangement:

- **Communication Scenario**: Customer Invoice Attachment Extraction

- **System Instance ID**: CI-EXTRACT

- **Communication Method**: Direct Connection
- **Inbound Communication Enabled**: CHECKED
- **Application Protocol**: Web Service
- **Authentication Method**: User ID and Password
- **User ID**: _CI-EXTRAC_0 (automatically set)

| 1 Select Scenario | 2 Define Business Data | 3 Define Technical Data | 4 Review | 5 Confirmation |

‹ Previous | Next › | Finish ⑦ | Close | Preview | Edit Advanced Settings | Check Comp

Communication Method: Direct Connection ⌄

Inbound Communication: Basic Settings

Outbound C

Inbound Communication Enabled: ☑

No Outbound

Application Protocol: *   Web Service ⌄

Authentication Method: *   User ID and Password ⌄

User ID: *   _CI-EXTRAC_0   **Edit Credentials**

Services Used

Query Customer Invoices	Uses Basic Settings	Enabled
Manage Attachment Folders	Uses Basic Settings	Enabled
Query Document Output R...	Uses Basic Settings	Enabled

Click the "Edit Credentials" button:

| 1 Select Scenario | 2 Define Business Data | 3 Define Technical Data | 4 Review | 5 Conf |

‹ Previous | Next › | Finish ⑦ | Close | Preview | Edit Advanced Settings

Communication Method: Direct Connection ⌄

Inbound Communication: Basic Settings

Inbound Communication Enabled: ☑

Application Protocol: *   Web Service ⌄

Authentication Method: *   User ID and Password ⌄

User ID: *   _CI-EXTRAC_0   **Edit Credentials**

Enter a password and then click OK:

Click Next and then click Finish.

The system configuration is now complete!

You should use the _CI-EXTRAC_0 user ID and password in the Customer Invoice Attachment Extraction application when configuring the system details.