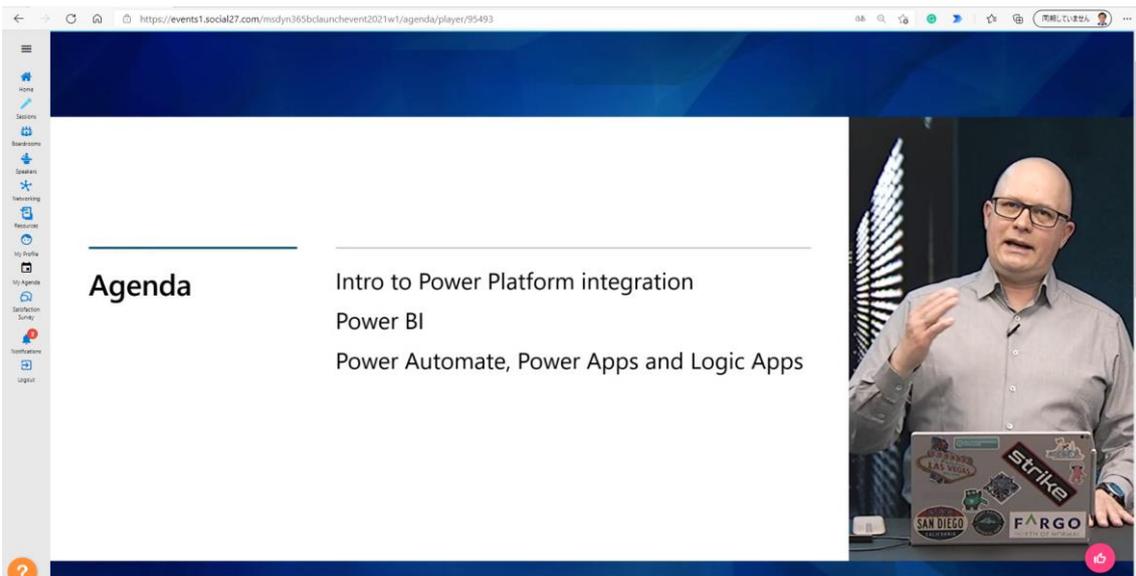
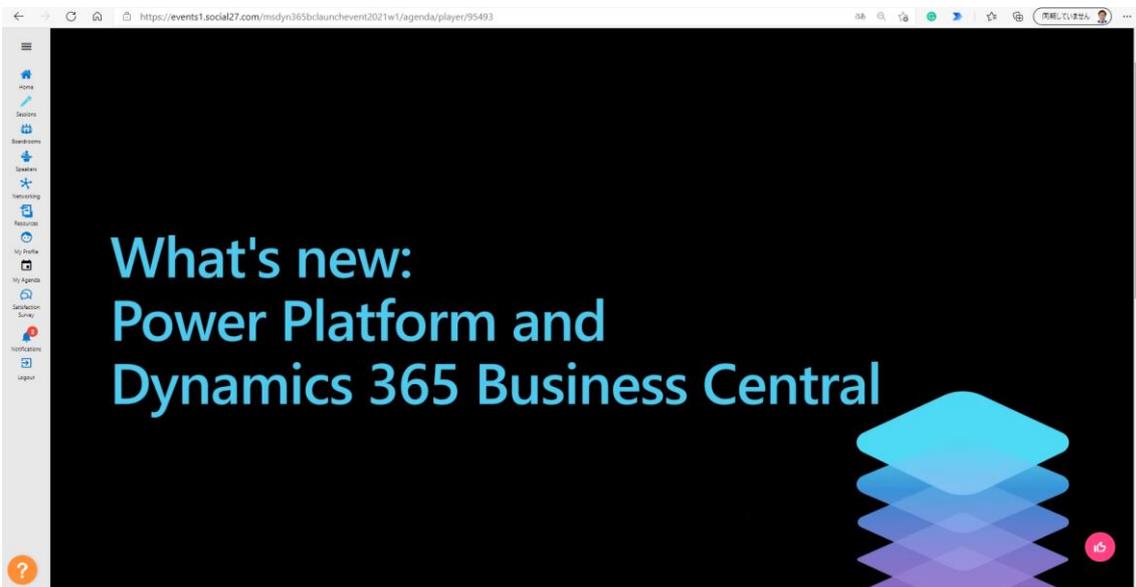
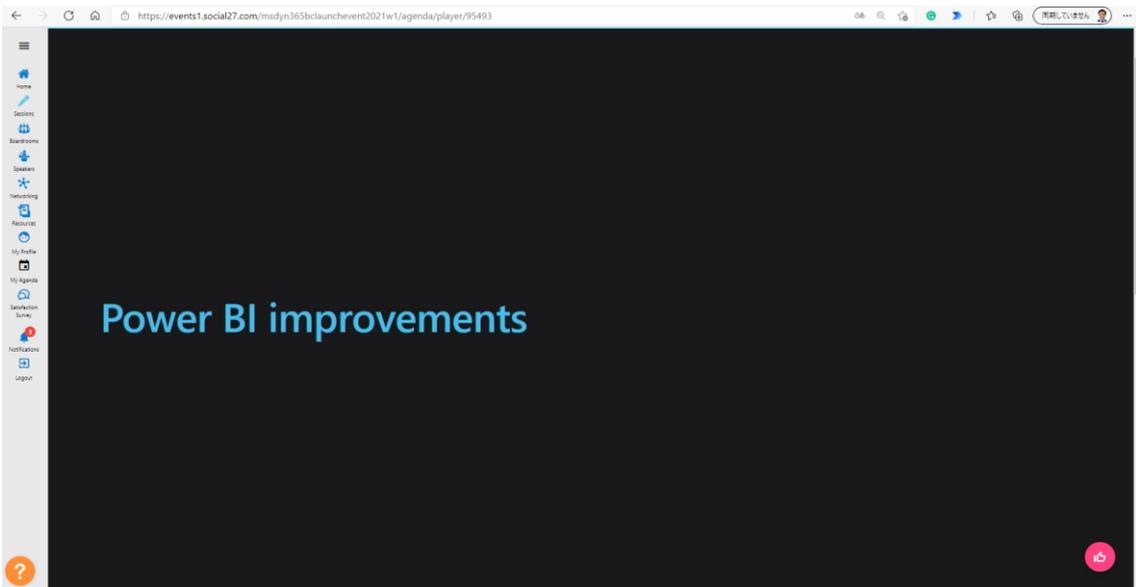
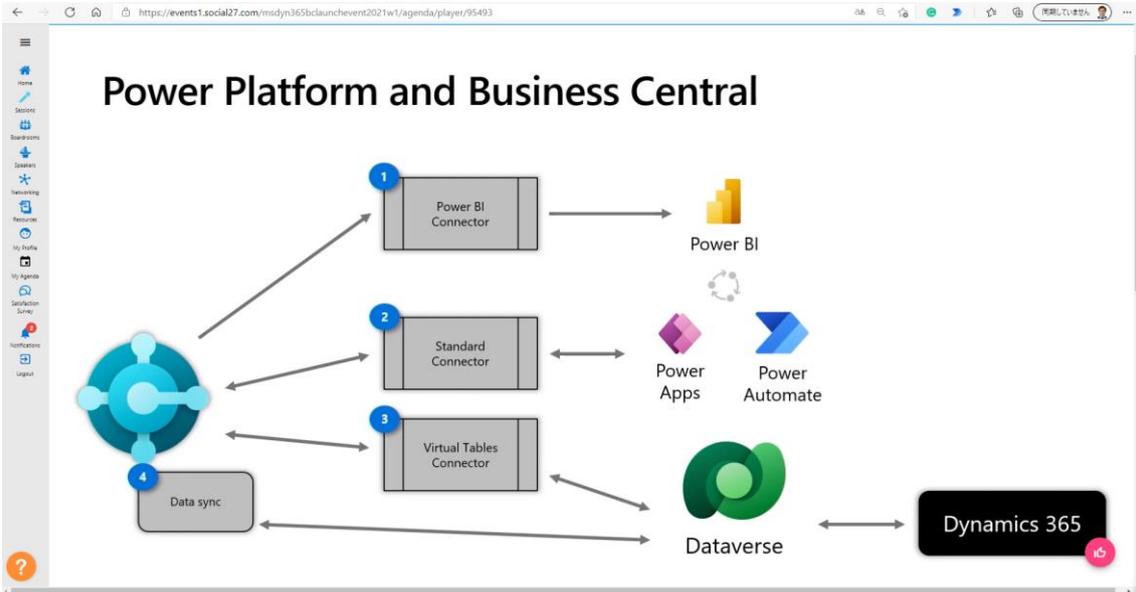


# Power Platform





https://events1.social27.com/msdyn365bclaunchevent2021w1/agenda/player/95493

## Power BI integration - components

- Sample reports and embedded experience
  - Reports embedded on Role Center
  - Sample ones deployed during onboarding
- Power BI connector
  - Allows reading data from Business Central easily
  - Works for online and on-premises
- Power BI template apps
  - Three Business Central Power BI template apps from Microsoft: Finance, Sales, CRM
  - More advanced dashboards with KPIs and charts
  - Available from AppSource (require PRO license for Power BI)

Documentation: <https://aka.ms/bcpbi>



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## New Power BI startup experience

- Initial flow via a new wizard with added instructions
- Redesigned to be much faster
- Added guidance about AAD registration for on-premises
- For troubleshooting (admin user only):
  - option to reset the onboarding process and Power BI license information

### Set Up Power BI Reports in Business Central

Welcome to Power BI Report Setup

Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.

This setup helps you configure Business Central to display your existing Power BI reports inside various pages that include a Power BI report part.

Let's get started

Choose Next to step through the process of visualizing Power BI reports inside Business Central.

Back Next Done



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## New Power BI startup experience

- Initial flow via a new wizard with added instructions
- Redesigned to be much faster
- Added guidance about AAD registration for on-premises
- For troubleshooting (admin user only):
  - option to reset the onboarding process and Power BI license information

### Set Up Power BI Reports in Business Central

Business Central will now upload a demo report for you to Power BI. This will take a few minutes, so we will do it in the background. While we upload the report, you can continue your work, and even start using Power BI in Business Central. When the upload has completed, the new report will be available for displaying on pages.

Choose Next to start uploading the demo report.

Back Next Finish



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## Updated Power BI connector

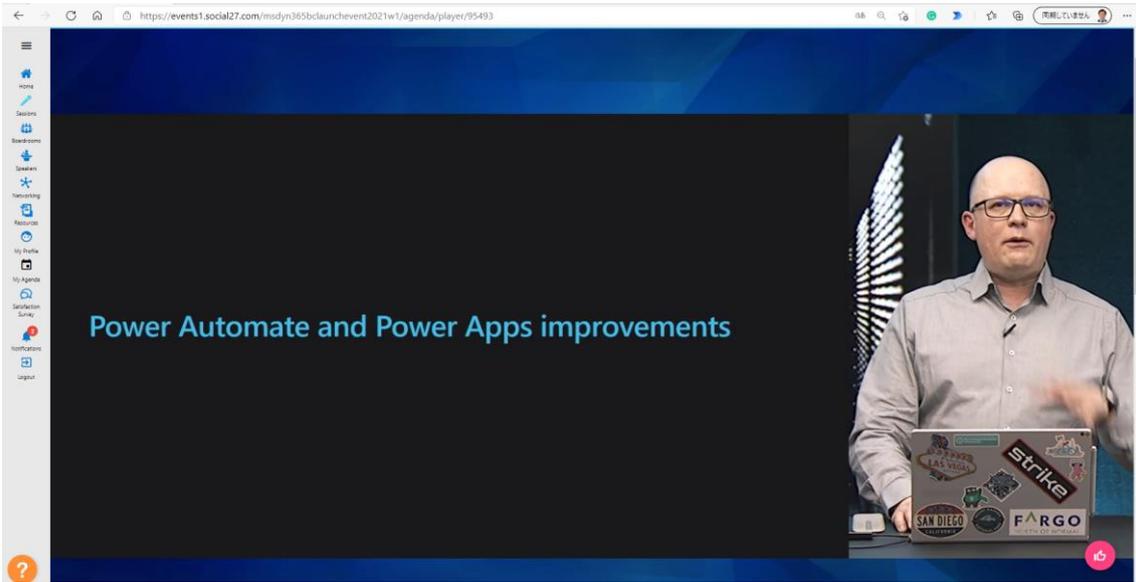
- Supports v2.0 APIs from Business Central
- Supports custom API pages
- Still supports webservicecs
- Performance up to 25% faster - just by switching to API pages

### Navigator

Display Options

- Dynamics 365 Business Central (4)
  - PRODUCTION (2)
    - CROUS USA Inc (1)
    - Standard APIs v2.0 (94)
  - Web Services (Regex) (82)
  - Advanced APIs (2)
- My Company
- SANDBOX

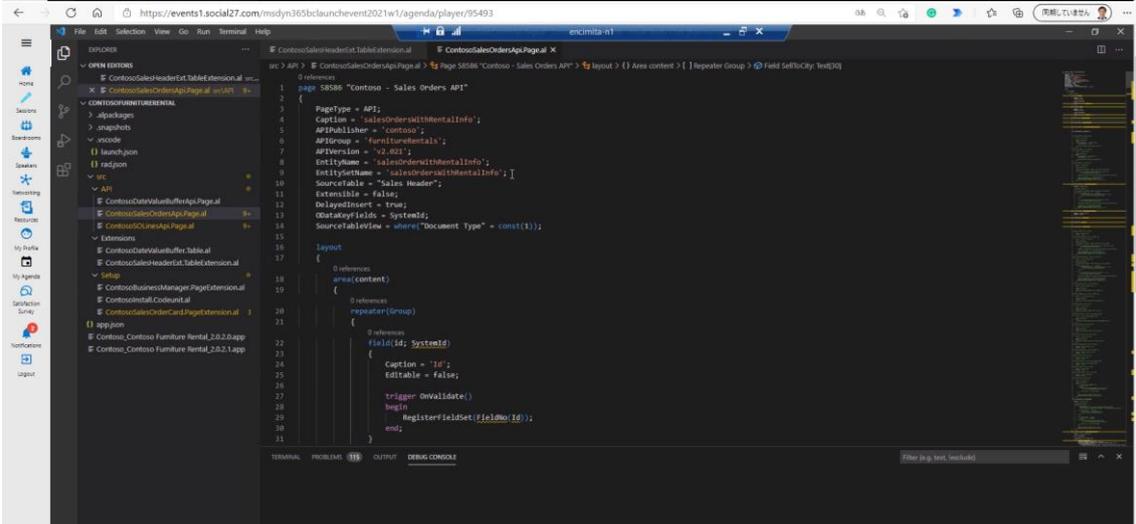
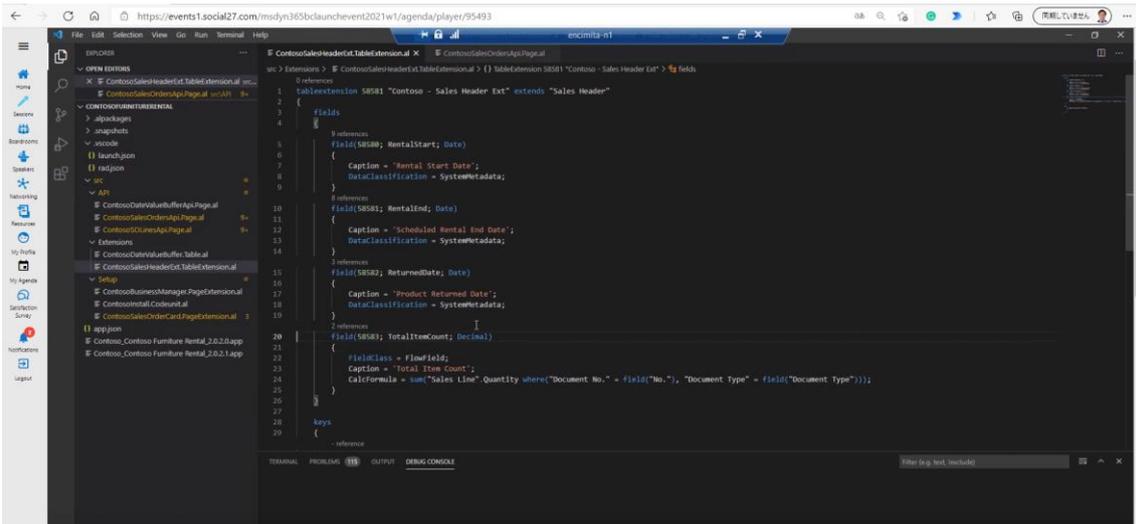




## Updated Power Automate/Power Apps connector

- Lifts previous limits of predefined APIs
- Now supports all native v2.0 APIs
- Supports all custom API pages created by partners
- Support all ISV environment types
- Is backward compatible:
  - New actions and triggers are marked as V3
  - Old ones are still listed, but will be deprecated
  - Power Apps automatically chooses V3 when creating new app

The screenshot shows the configuration interface for the "When a record is created (V3)" connector. The "API category" dropdown is highlighted in yellow, showing a list of options: "microsoft/adms/beta", "microsoft/automation/v2.0", "microsoft/huntnet/beta", "v2.0", and "workflowendpoints". The "Get record (V3)" connector is also visible below, with its "API category" set to "v2.0".



New fields

The screenshot displays the Dynamics 365 Business Central interface for a Sales Order (S-ORD101001) for Adatum Corporation. The interface is divided into several sections:

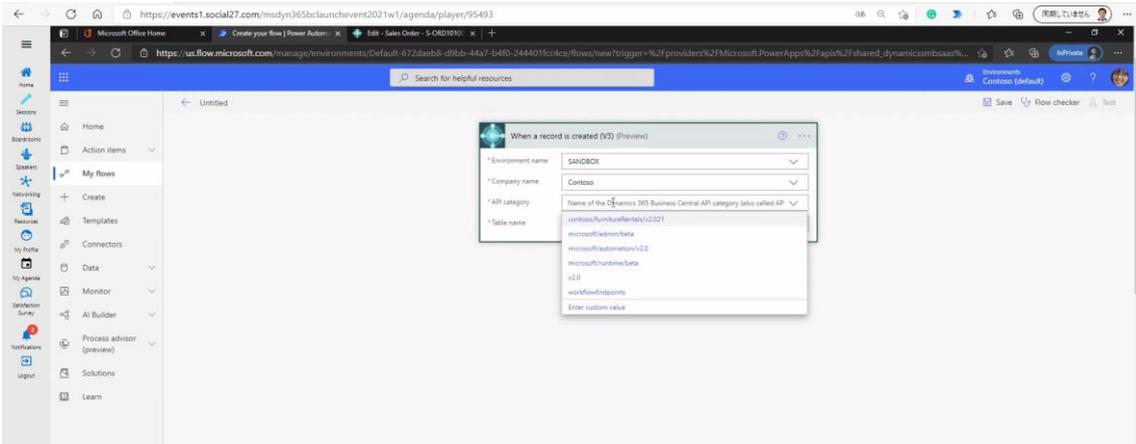
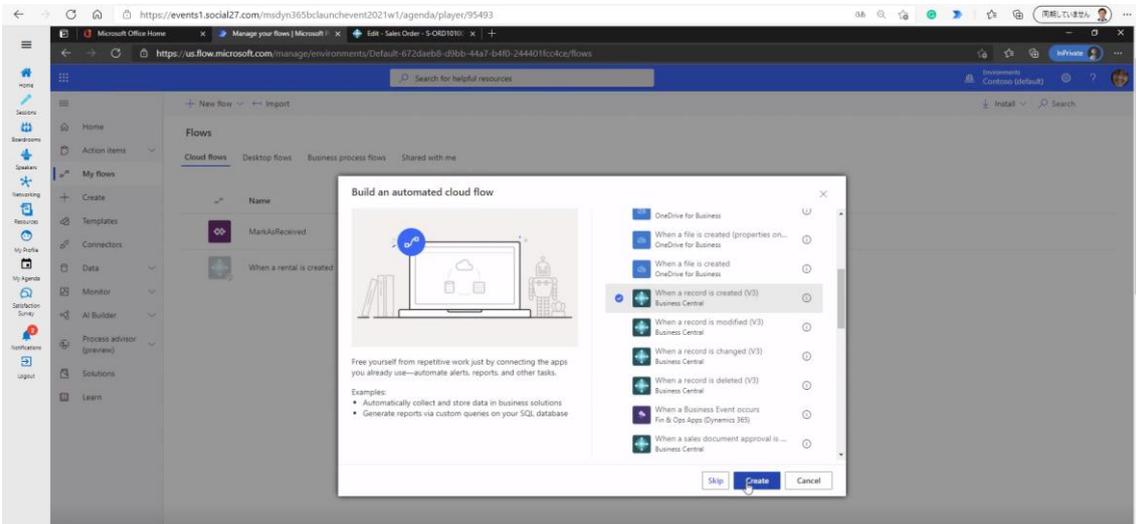
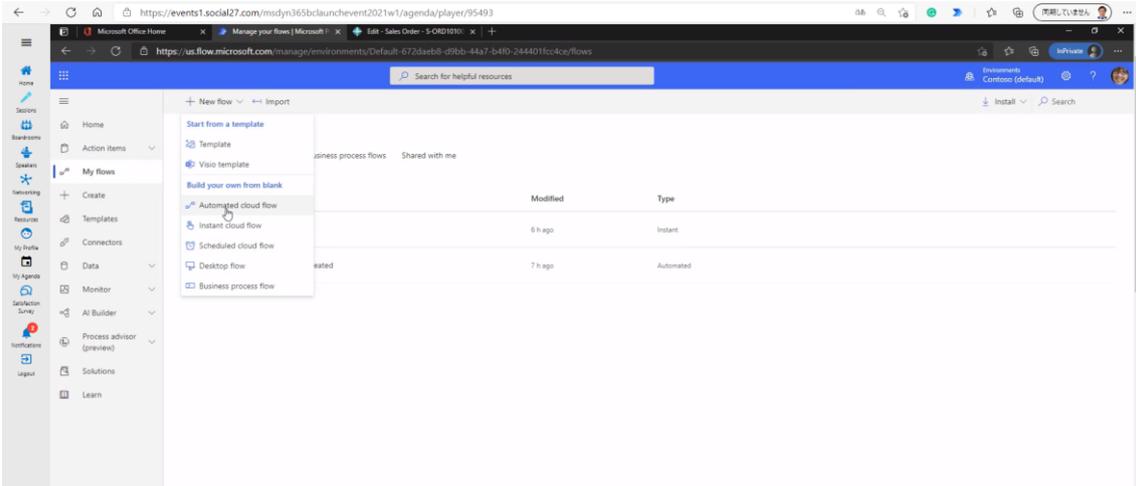
- General:** Contains fields for Customer Name (Adatum Corporation), Contact (Robert Townes), Posting Date (02/04/2021), Order Date (02/04/2021), Due Date (02/05/2021), Requested Delivery Date (03/04/2021), External Document No., Status (Open), Rental Start Date (25/04/2021), Scheduled Rental End Date (01/05/2021), and Product Returned Date.
- Lines:** A table with columns for Type, No., Description, Location Code, Quantity, Qty to Assemble to Order, Reserved Quantity, Unit of Measure Code, Unit Price Excl. Tax, and Tax Area Code. One line is visible: Item 1996-S, ATLANTA Whiteboard, base, with a quantity of 5 and a unit price of 1,397.30.
- Summary:** Shows Subtotal Excl. Tax (USD) as 6,986.50, Total Excl. Tax (USD) as 6,986.50, Invl. Discount Amount Excl. Tax (USD) as 0.00, Total Tax (USD) as 419.19, and Total Incl. Tax (USD) as 7,405.69.
- Customer Details:** Lists Customer No. 10000, Name Adatum Corporation, Phone No. 773-573-6914, and Email robert.townes@contoso.com.
- Sell-to Customer Sales History:** A grid showing sales metrics for the current customer, including Ongoing Sales Quoties, Ongoing Sales Revenue, and Posted Sales Revenue.

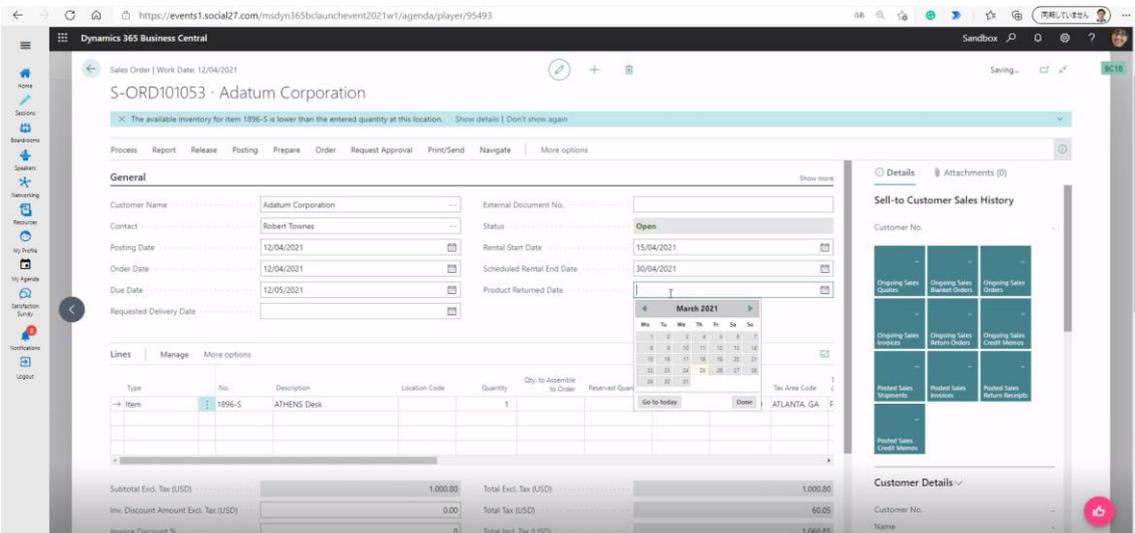
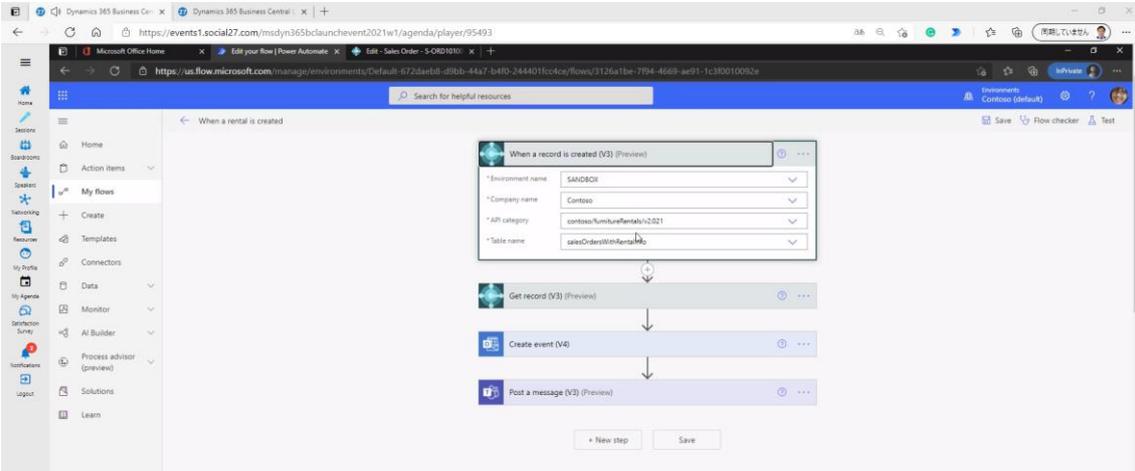
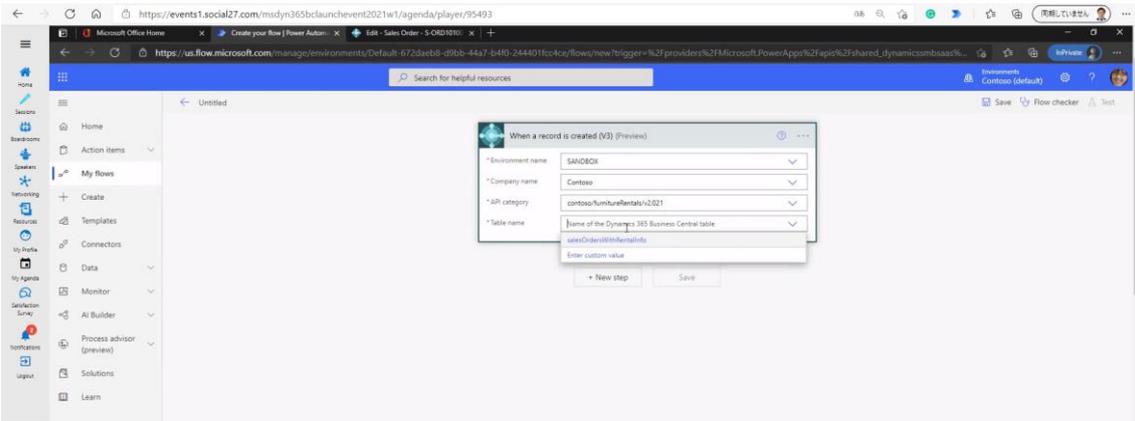
## PowerAutomate

The screenshot shows the Microsoft Power Automate website landing page. The main heading is "Microsoft Power Automate helps Office 365 work smarter". Below this, there is a sub-heading "Need to free up some time? Let Power Automate take on repetitive tasks that slow you down—just by connecting the apps you already use." and a "Watch a quick video" link.

A search bar is provided with the text "Search for a template by app, task, or industry". Below the search bar, there is a section for "Popular services" with icons for SharePoint, Office 365 Outlook, OneDrive, Twitter, Dropbox, Outlook.com, Dynamics 365 (deprecated), Yammer, Excel Online (Business), and Google Calenda.

At the bottom, there are links for "Multistep flows", "Approve requests", "Adding conditions", "Using on-premises data", and "Working securely". A small tweet preview is visible at the bottom right.





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Search for helpful resources

Environments: Contoso (default)

Flow checker

### Flows > When a rental is created

**Details** Edit

Flow: When a rental is created

Status: On

Created: Mar 25, 08:54 AM

Modified: Mar 25, 09:00 AM

Type: Automated

Run: Per-user plan

**Connections** Edit

- Business Central: MeganB@432730k18r2.Ont
- Office 365 Outlook Permissions: MeganB@432730k18r2.Ont
- Microsoft Teams: MeganB@432730k18r2.Ont

**Owners** Edit

- Megan Bowen

**28-day run history** All runs

Start	Duration	Status
Mar 25, 04:24 PM (34 sec ago)	00:00:21	Successful
Mar 25, 04:23 PM (1 min ago)	59 ms	Failed
Mar 25, 10:28 AM (5 h ago)	00:00:02	Successful
Mar 25, 10:25 AM (5 h ago)	33 ms	Failed
Mar 25, 09:21 AM (7 h ago)	00:00:03	Successful

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Search for helpful resources

Environments: Contoso (default)

Resubmit Cancel Edit

### When a rental is created - Ran at 3/25/2021 4:24:50 PM

Your flow ran successfully.

**INPUTS** Show raw inputs >

Environment name: SANDBOX

Company name: d78492c-d78d-eb11-8c43-00003a9e398e

API category: contoso/furnitureRentals/v2.021

Table name: salesOrdersWithRentalInfo

**OUTPUTS**

[Click to download](#)

Connection: MeganB@432730k18r2.Ont@Microsoft.com

↓

- Get record (V3) 1s
- Create event (V4) 1s
- Post a message (V3) 2s

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Search

Environments: Contoso (default)

### Microsoft Teams

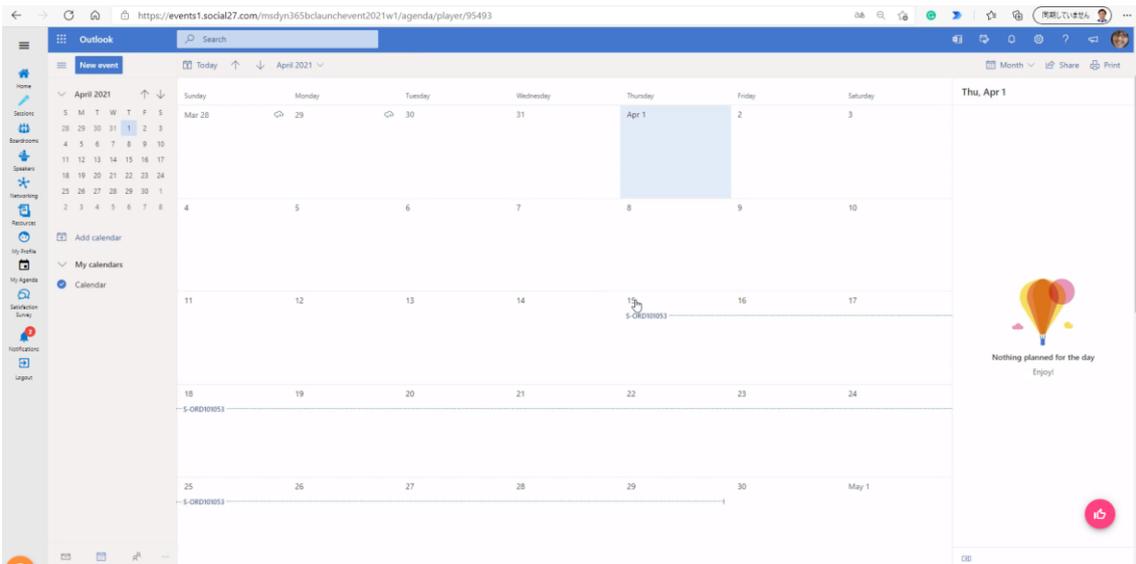
Teams: Furniture rentals

Maximus Eighteenus Ademsia set this channel to be automatically shown in the channely list.

Today

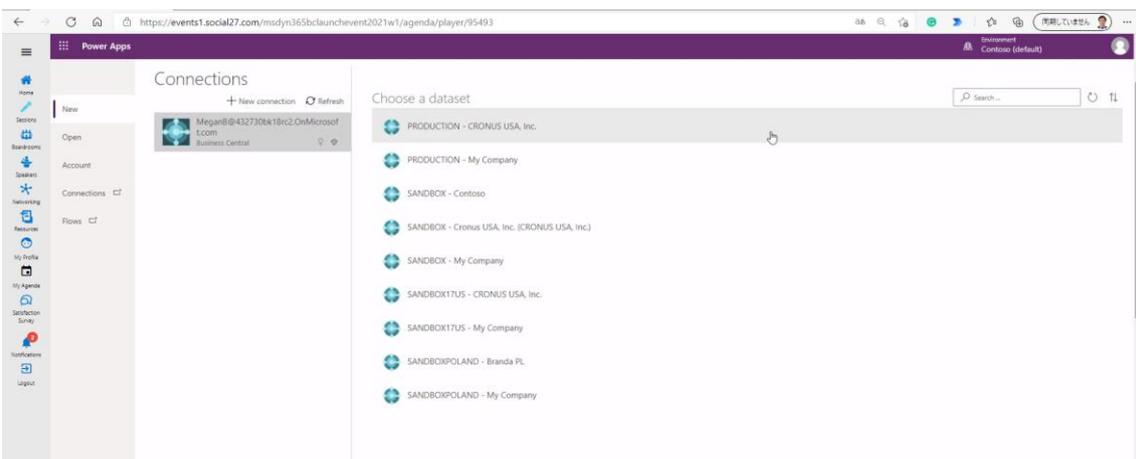
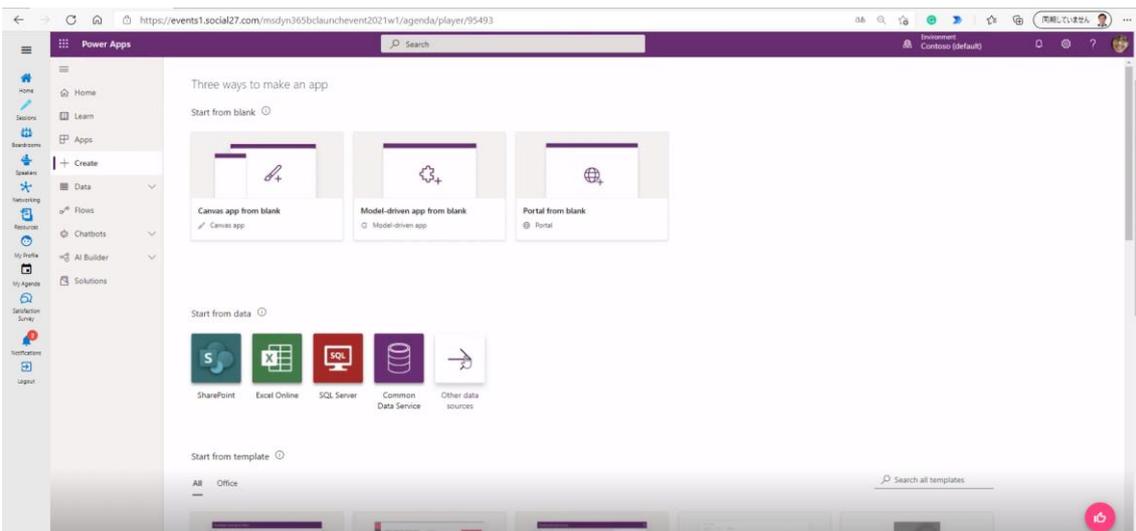
- Megan Bowen 9:27 AM: Rental number S-QU01001 has been created.
- Alex Wilber 10:09 AM: Thanks Megan. Remember to include the flowers... 1
- Megan Bowen 10:29 AM: Rental number S-ORD101051 has been created.
- Megan Bowen 4:25 PM: Rental number S-ORD101053 has been created.

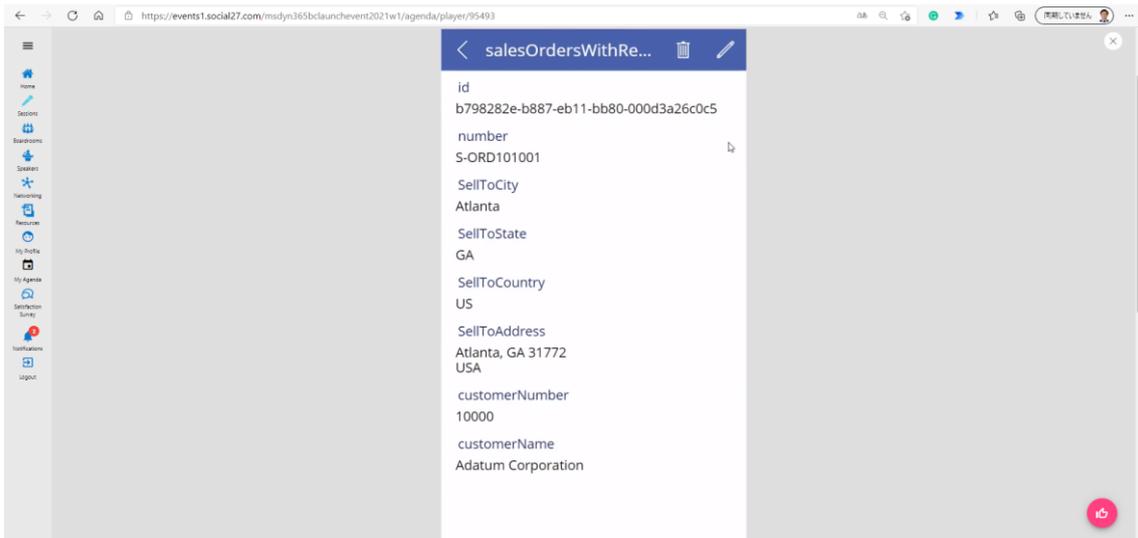
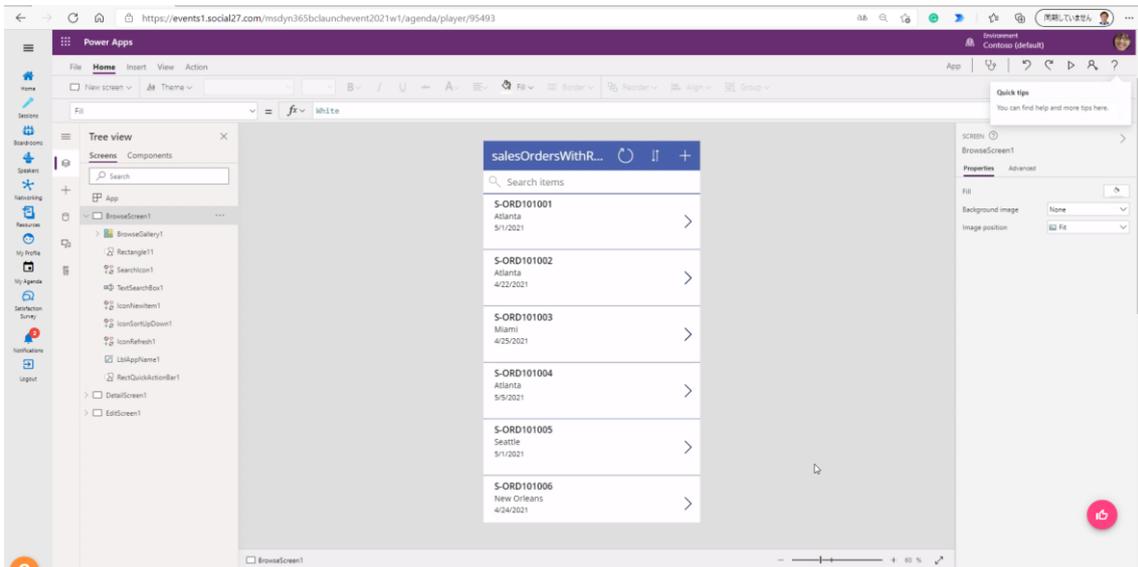
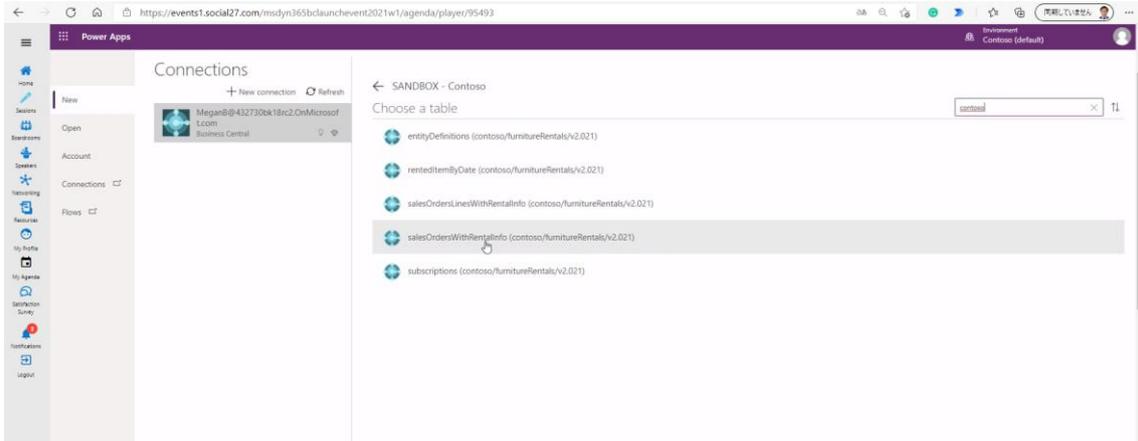
New conversation



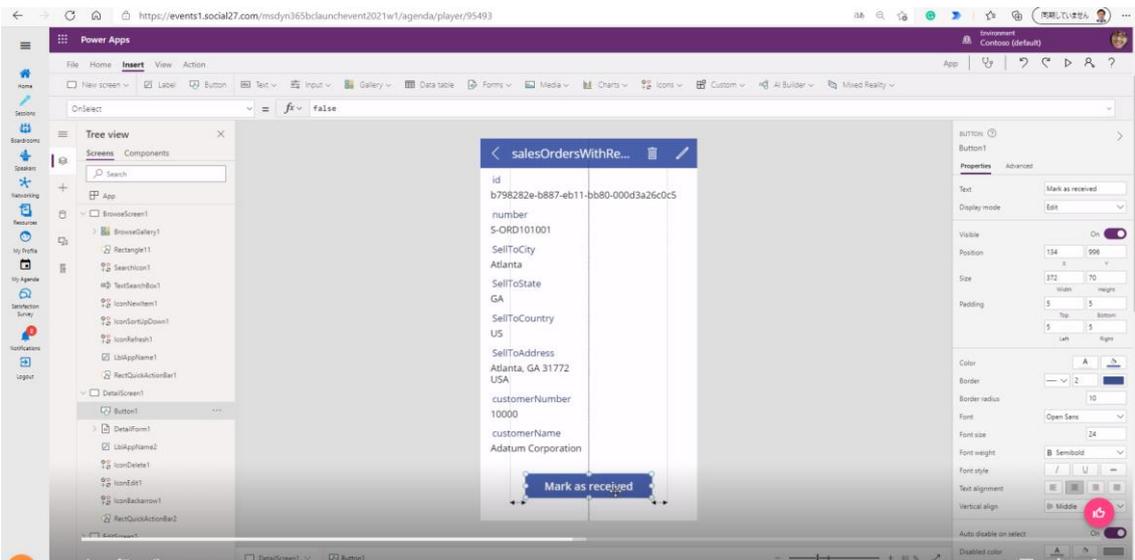
Power

Apps

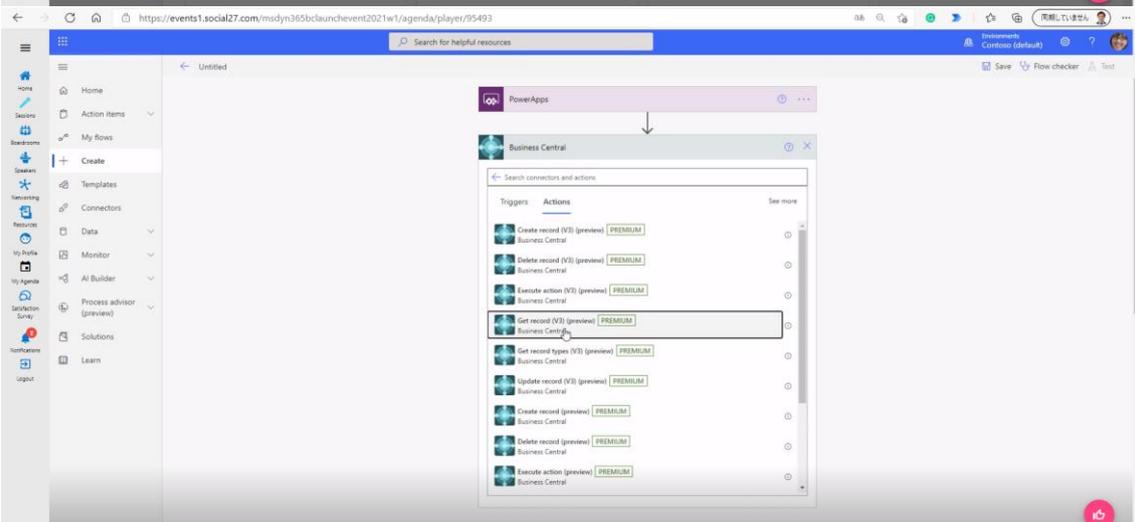
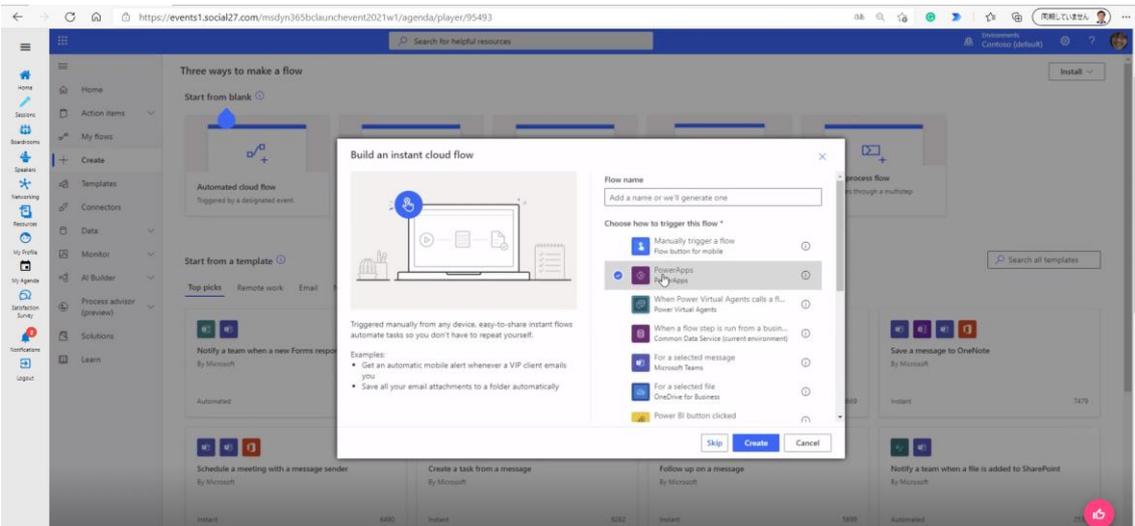


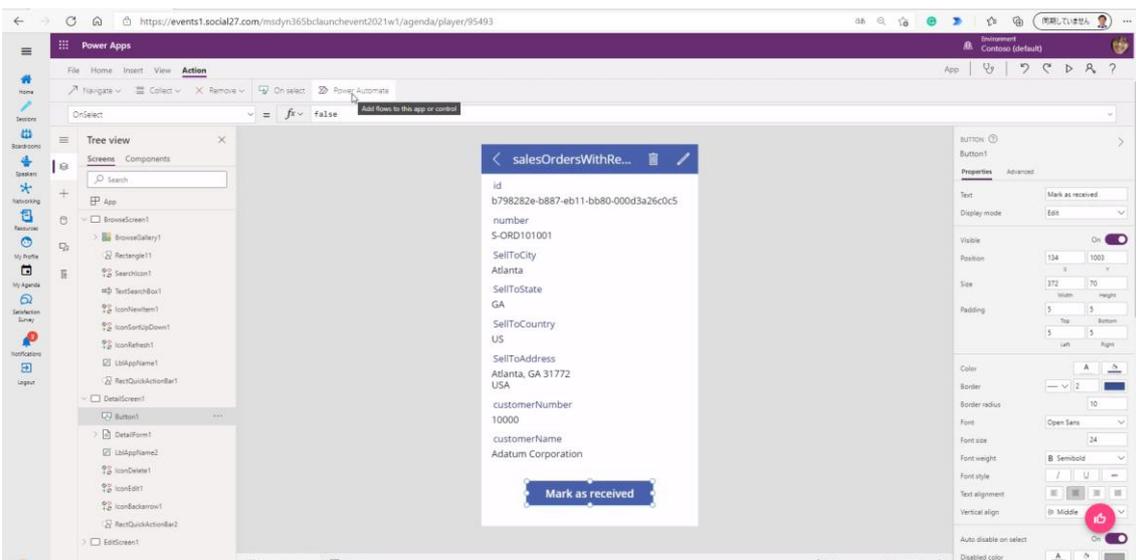
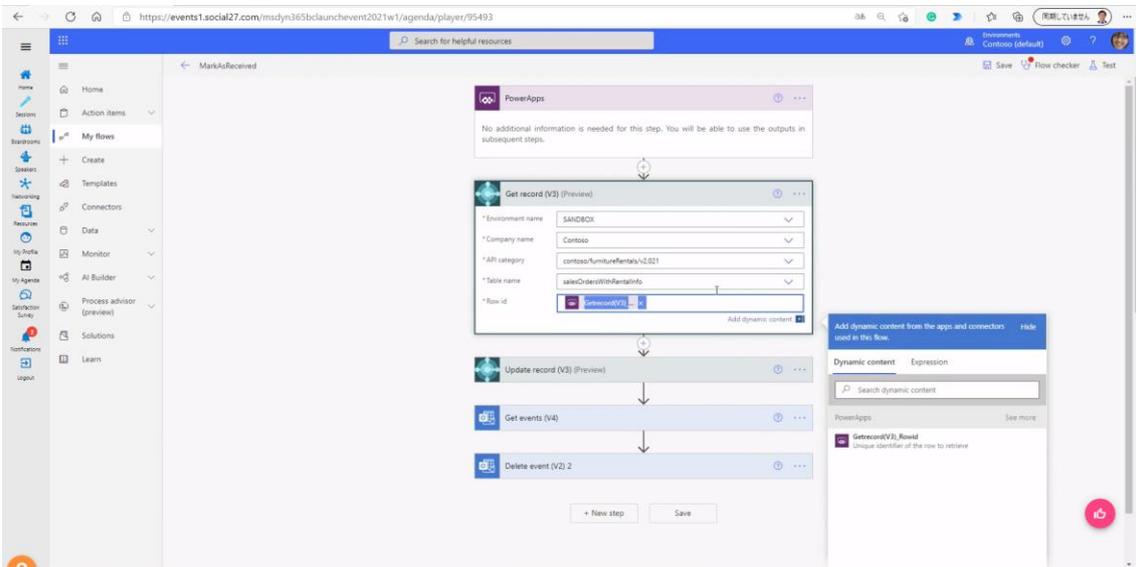
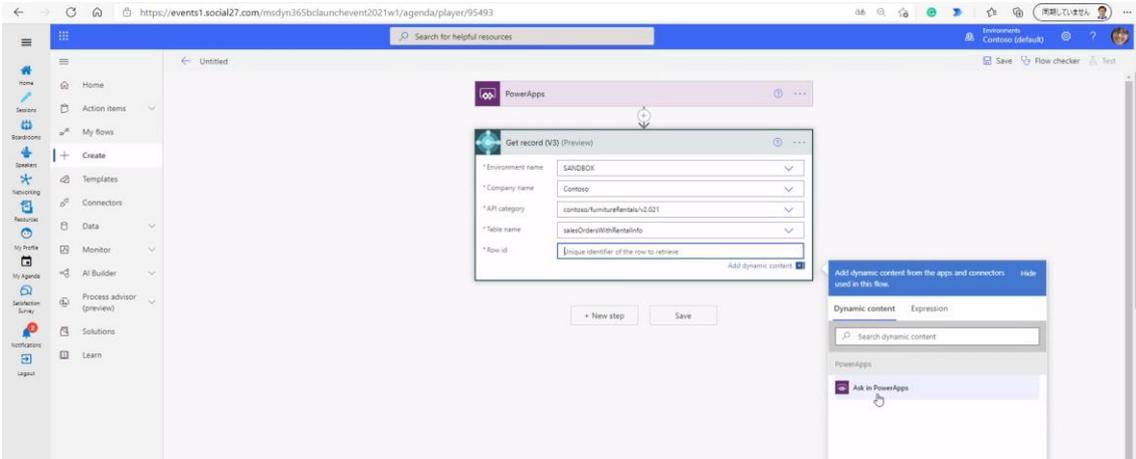


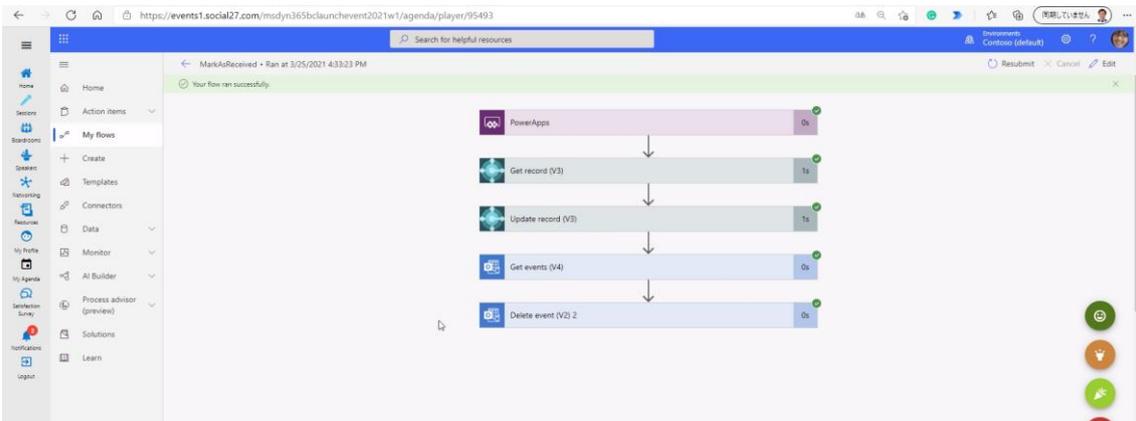
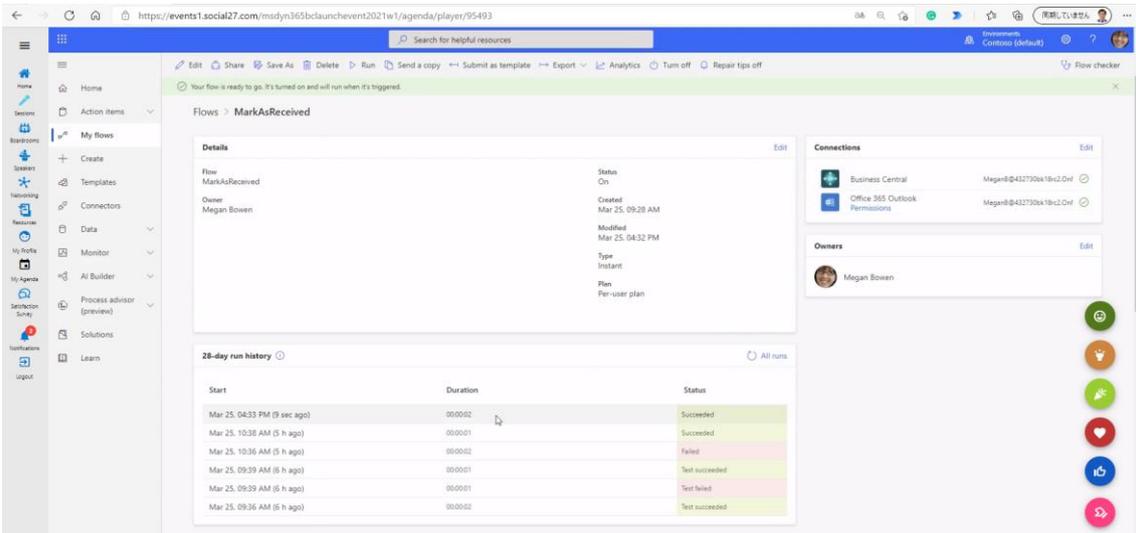
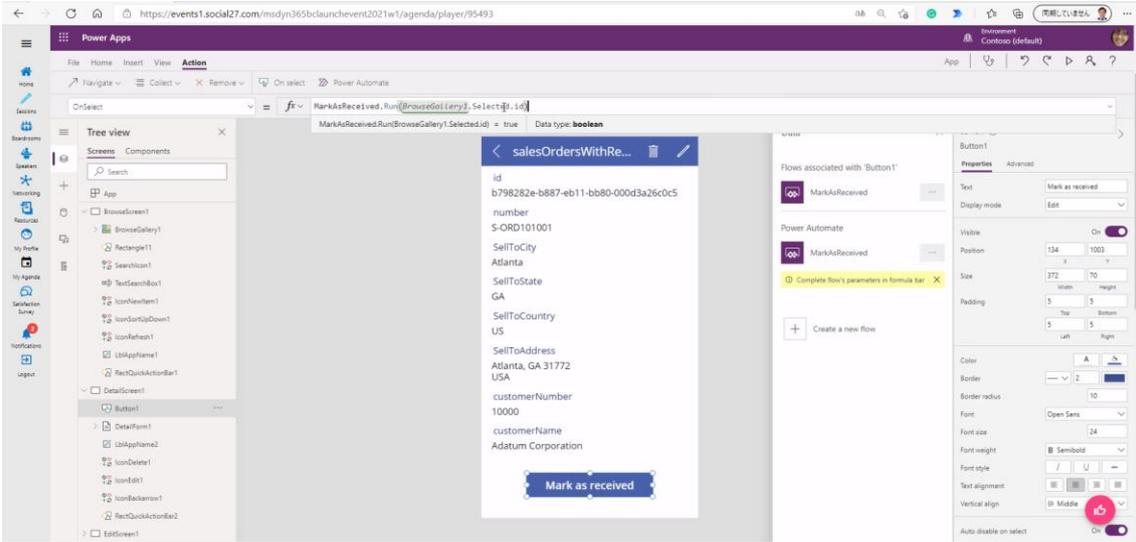
Insert a new button



Create a new flow -> powerapps







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Dynamics 365 Business Central

Sales Order | Work Date: 12/04/2021

S-ORD101053 · Adatum Corporation

Process Report Release Posting Prepare Order Request Approval Print/Send Navigate More options

**General** Show more

Customer Name: Adatum Corporation External Document No.:  
 Contact: Robert Townes Status: Open  
 Posting Date: 12/04/2021 Rental Start Date: 15/04/2021  
 Order Date: 12/04/2021 Scheduled Rental End Date: 30/04/2021  
 Due Date: 12/05/2021 Product Returned Date: 25/03/2021  
 Requested Delivery Date:

**Lines** Manage More options

Type	No.	Description	Location Code	Quantity	Qty. to Assemble to Order	Reserved Quantity	Unit of Measure Code	Unit Price Excl. Tax	Tax Area Code
Item	1896-S	ATHENS Desk		1			PCS	1,000.80	ATLANTA, GA

Subtotal Excl. Tax (USD): 1,000.80 Total Excl. Tax (USD): 1,000.80  
 Inv. Discount Amount Excl. Tax (USD): 0.00 Total Tax (USD): 60.05  
 Invoice Discount %: 0 Total Incl. Tax (USD): 1,060.85

**Details** Attachments (0)

**Sell-to Customer Sales History**

Customer No.: 10000

Ongoing Sales Quotes	0	Ongoing Sales Renewal Orders	0	Ongoing Sales Orders	4
Ongoing Sales Invoices	2	Ongoing Sales Backup Orders	0	Ongoing Sales Credit Memos	0
Posted Sales Orders	33	Posted Sales Invoices	33	Posted Sales Credit Memos	0
Posted Sales Credit Memos	0				

**Customer Details**

Customer No.: 10000  
 Name: Adatum Corporation  
 Phone No.: 773-573-6914  
 Email: robert.townes@contoso.com

Get start with power bi

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Dynamics 365 Business Central

Contoso | Finance - Cash Management - Sales - Purchasing - Setup & Extensions - Intelligent Cloud Insights

Customers Vendors Items Bank Accounts Chart of Accounts

This is a sandbox environment for test, demo, or development purposes only. Don't show this again.

School of Fine Art

Trial Balance

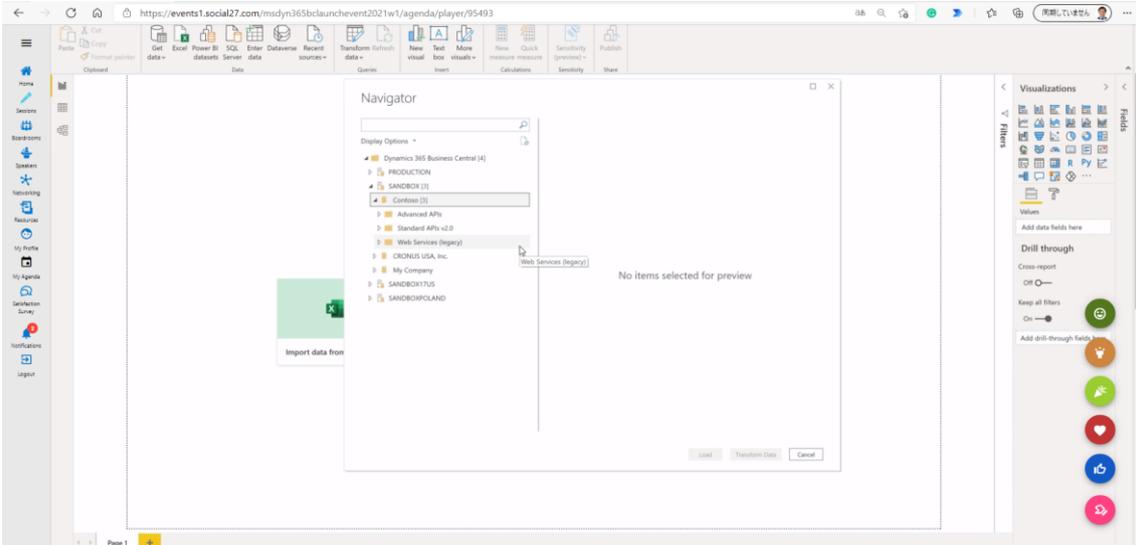
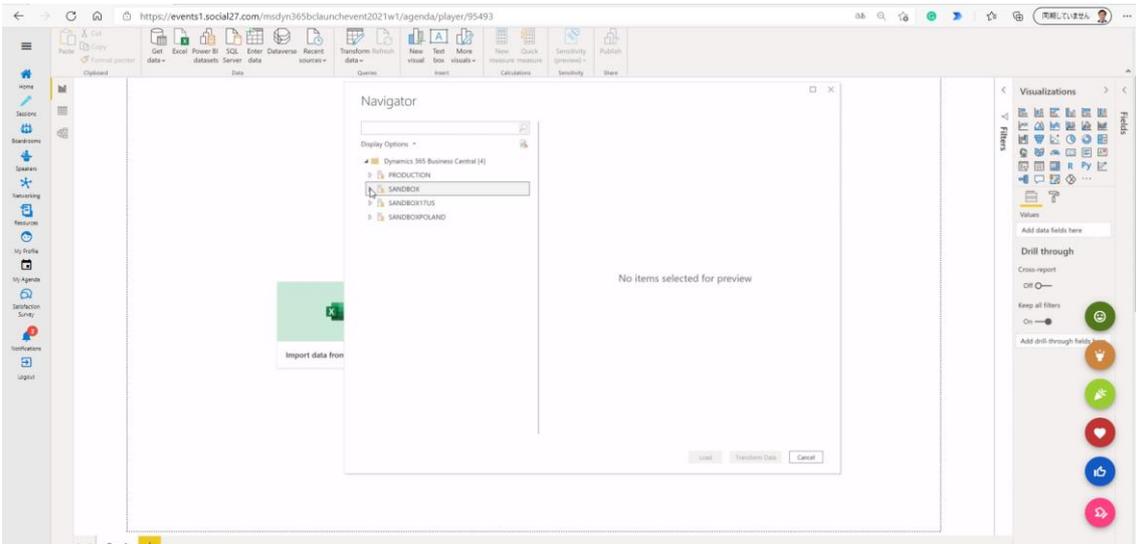
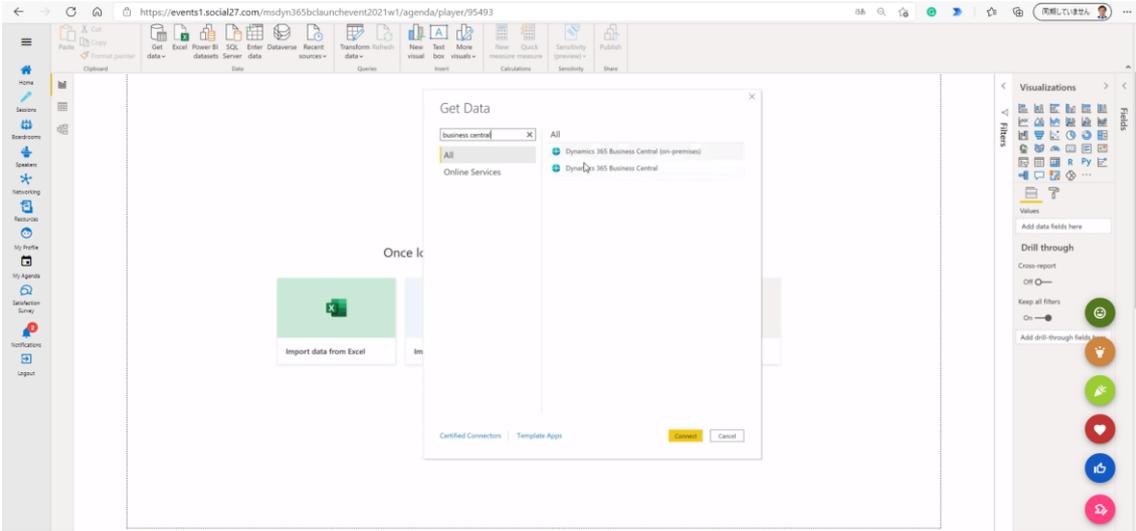
Description	01/03/21..31/03/21
Total Revenue	41,557.00
Total Cost	45,138.70
Gross Margin	-3,781.32
<b>Gross Margin %</b>	<b>-9.14</b>
Operating Expenses	2,000.00
Operating Margin	-5,781.32
<b>Operating Margin %</b>	<b>-13.89</b>
Other Expenses	
<b>Income before Interest and Tax</b>	<b>-5,781.32</b>

**Set Up Power BI Reports in Business Central**

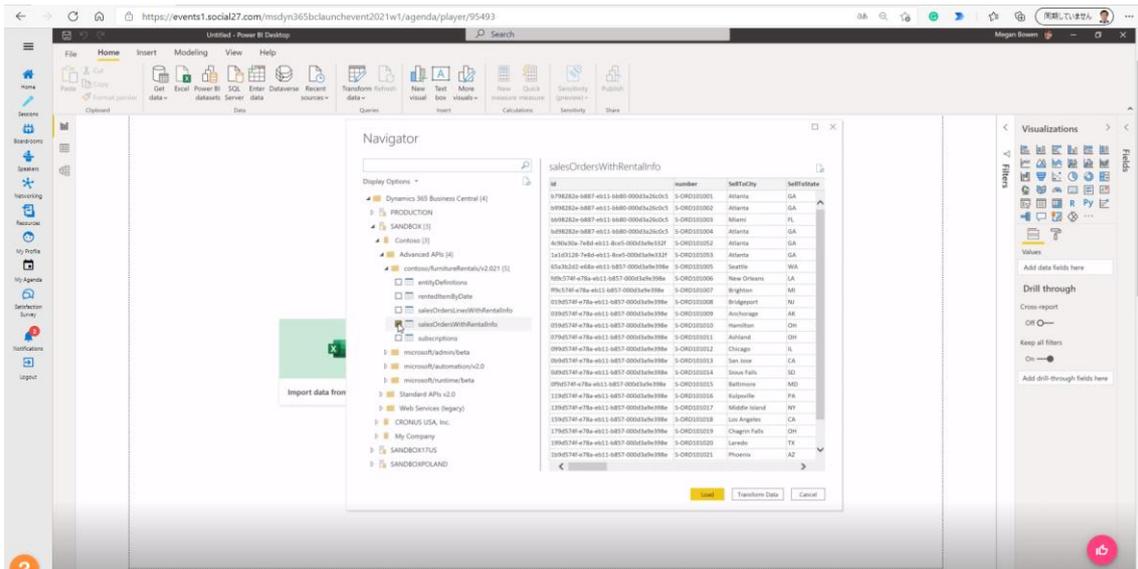
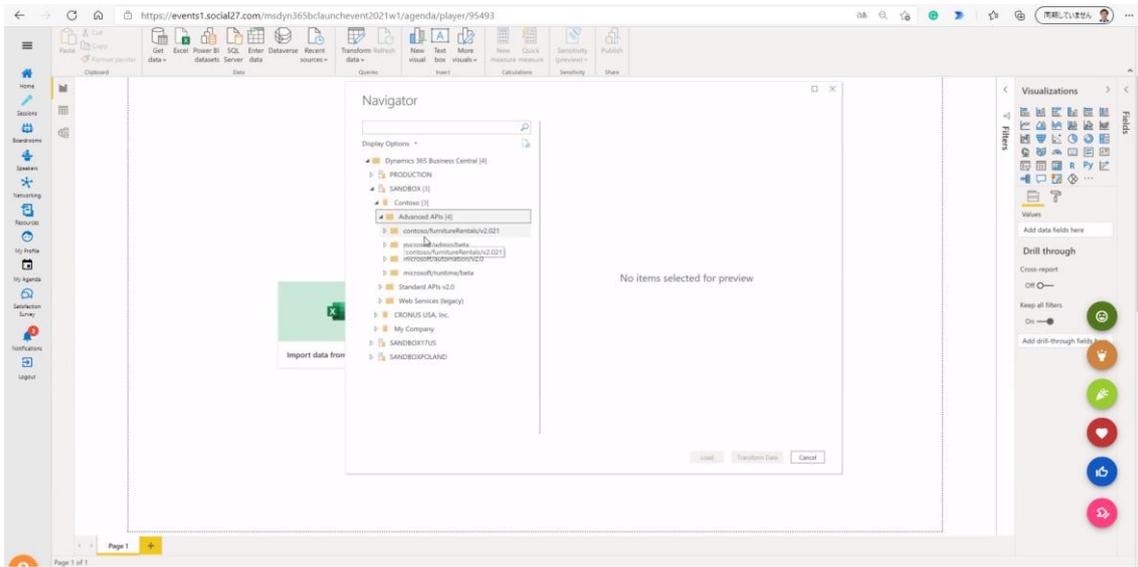
Welcome to Power BI Report Setup  
 Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.  
 This setup helps you configure Business Central to display your existing Power BI reports inside various pages that include a Power BI report part.

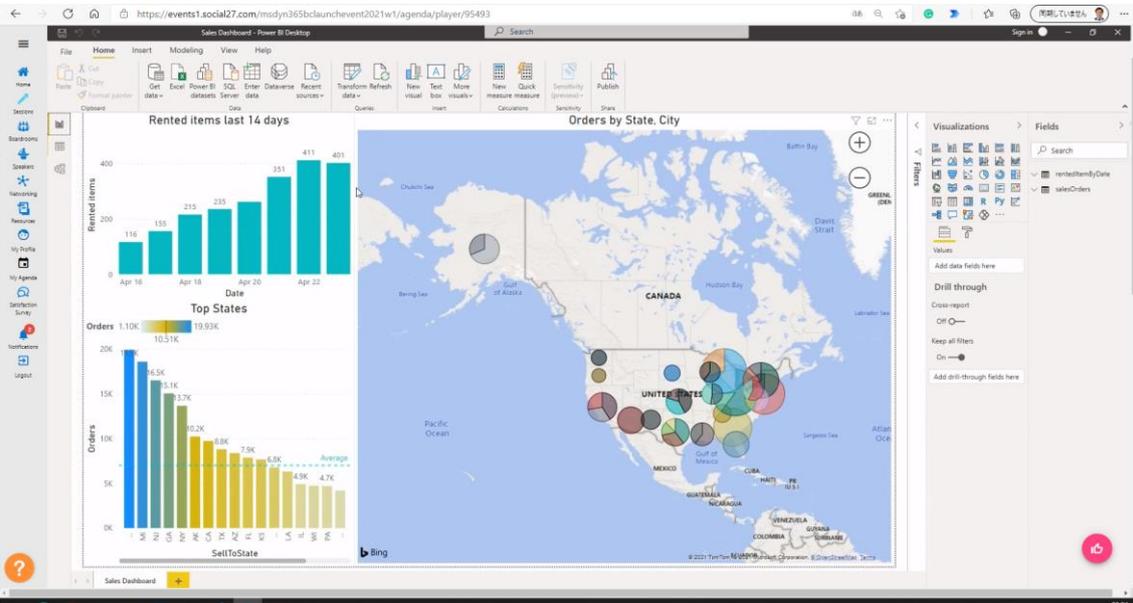
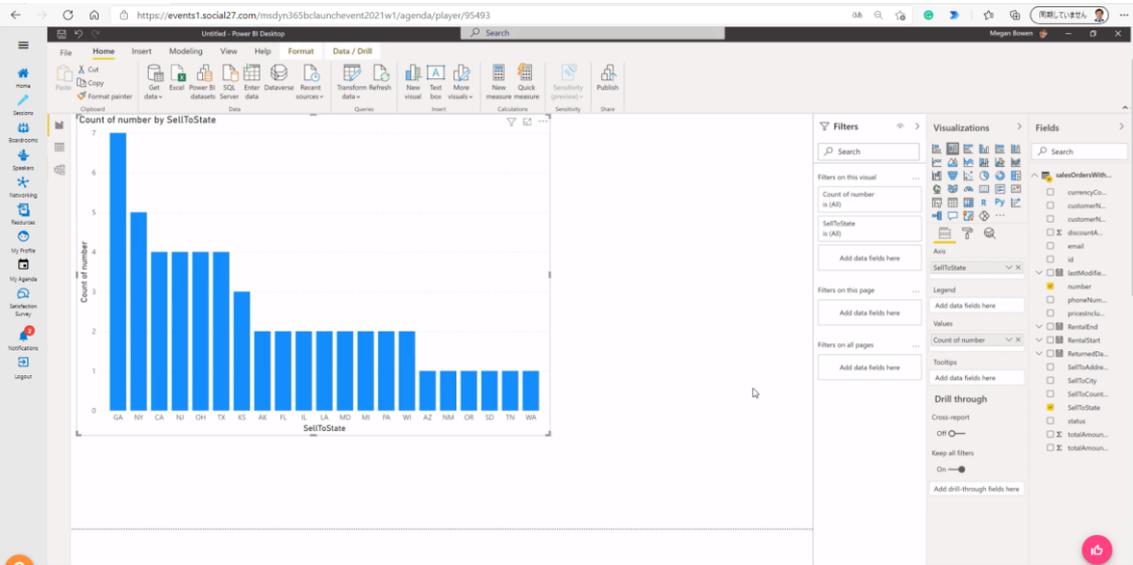
Let's go!  
 Choose Next to step through the process of visualizing Power BI reports inside Business Central.

Back Next Finish

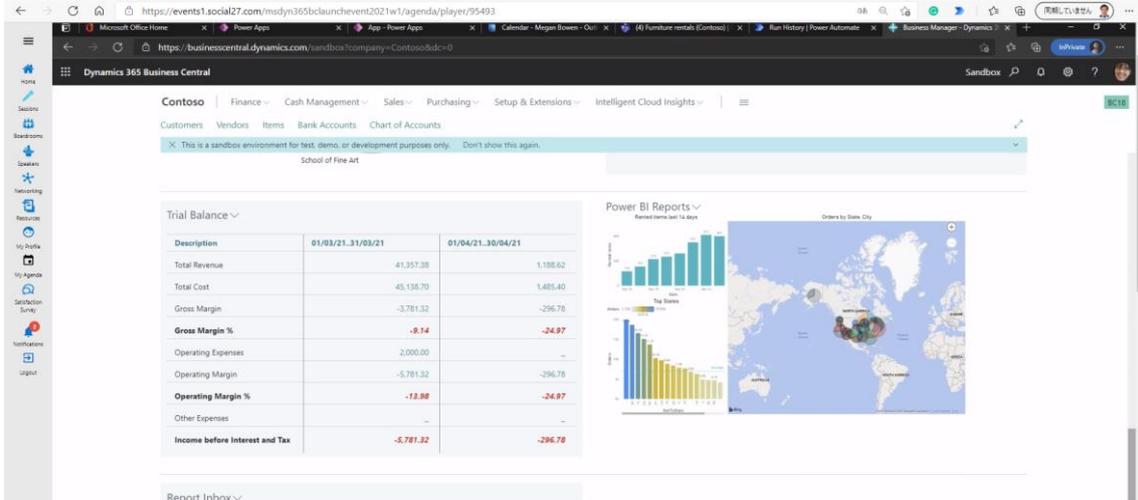


# Custom API = Advanced Apis

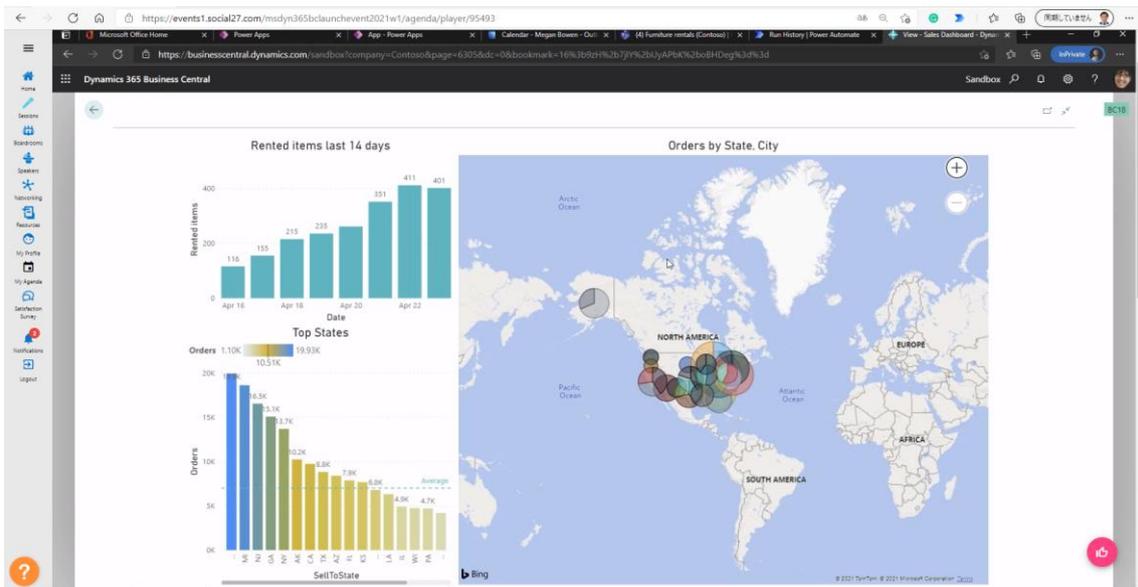
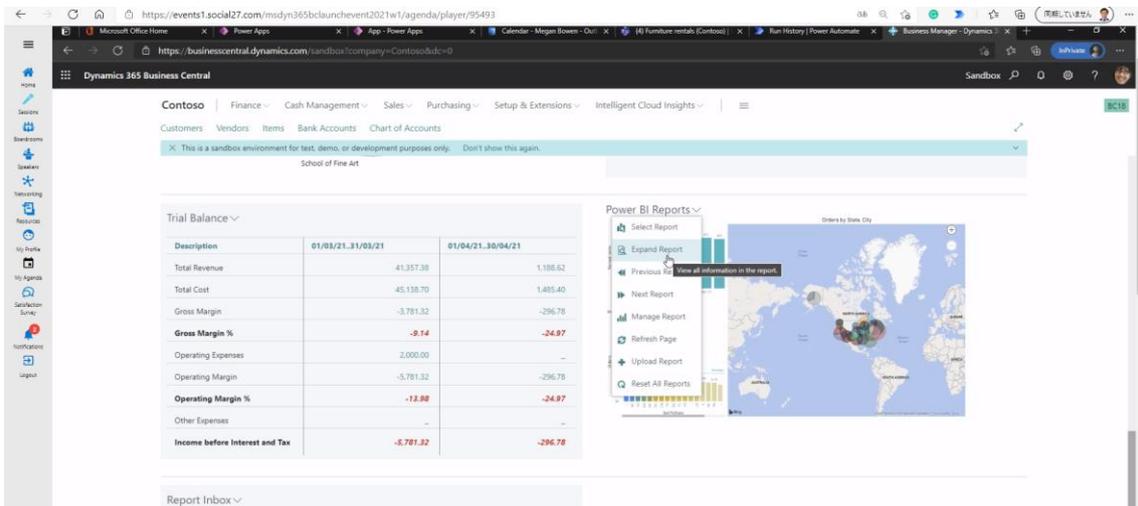


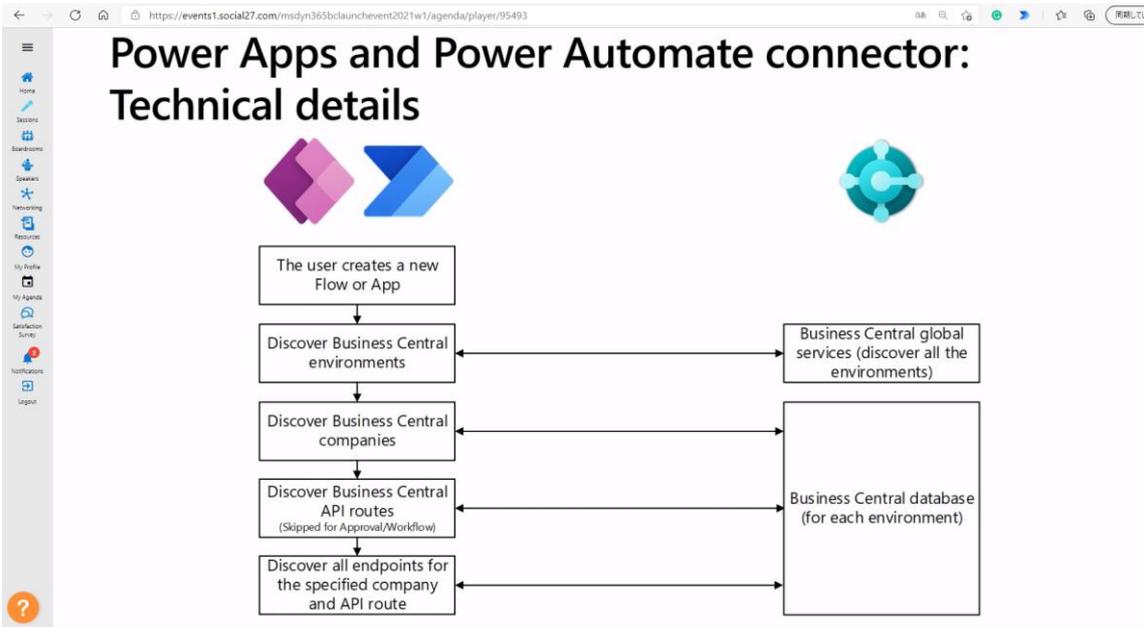


Description	01/03/21..31/03/21	01/04/21..30/04/21
Total Revenue	41,357.38	1,188.62
Total Cost	45,138.70	1,485.40
Gross Margin	-3,781.32	-296.78
<b>Gross Margin %</b>	<b>-9.14</b>	<b>-24.97</b>
Operating Expenses	2,000.00	-
Operating Margin	-5,781.32	-296.78
<b>Operating Margin %</b>	<b>-13.88</b>	<b>-24.97</b>
Other Expenses	-	-
<b>Income before Interest and Tax</b>	<b>-5,781.32</b>	<b>-296.78</b>



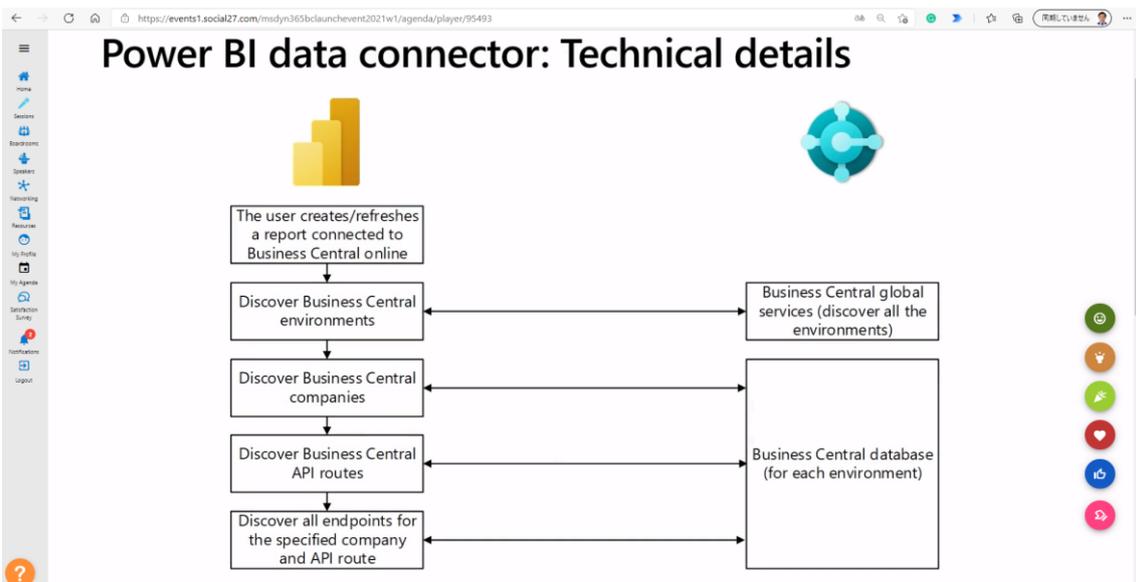
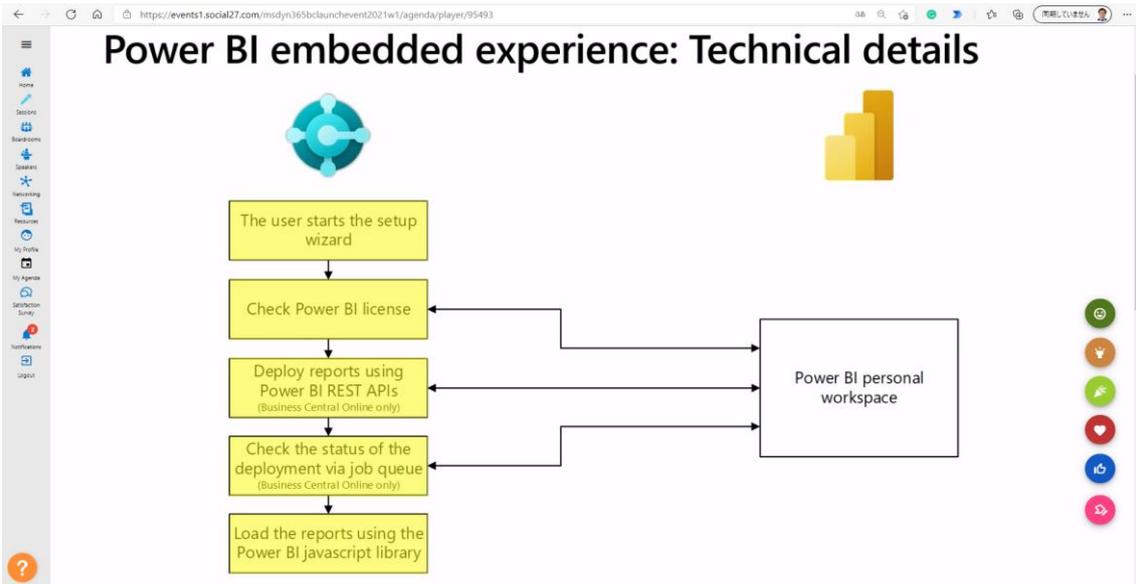
Expand





Power Apps and Power Automate connector:  
Technical details

- Two types of actions and triggers:
  - CRUD operations, e.g. "When a record is created (V3)" or "Update record (V3)"
    - Create, Read, Update, Delete out-of-the-box and custom APIs
    - Triggers based on webhooks processed by a Job Queue Entry after 30 seconds
    - Only showing supported endpoints for the operation
    - Removing an old API version from your Business Central will cause Flows and Apps to break
  - Approvals and Workflow operations, e.g. "When a customer approval is requested (V3)"
    - Use a limited set of out-of-the-box endpoints (the Web Services named "workflow")
    - Integrate with the Business Central approval workflows, dependent on the approval setup
    - Almost no change between V2 and V3



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## Power BI data connector: Technical details

- New connector experience for Business Central online only
- The generate Power Query text looks like this:

```
let
    Source = Dynamics365BusinessCentral.ApiContents(null, null, null),
    SANDBOX = Source[{Name="SANDBOX"}][Data],
    #CRONUS USA, Inc. = SANDBOX[{Name="CRONUS USA, Inc."}][Data],
    Advanced = #CRONUS USA, Inc. [{Name="Advanced"}][Data],
    #contoso/productivity/v1.0 = Advanced[{Name="contoso/productivity/v1.0"}][Data],
    customSalesOrderEndpoint_table = #contoso/productivity/v1.0[{Name="customSalesOrderEndpoint", Signature="table"}][Data]
in
    customSalesOrderEndpoint_table
```

- You can still specify the parameters explicitly, and do advanced queries and filtering

```
let
    Source = Dynamics365BusinessCentral.ApiContents("SANDBOX", "CRONUS USA, Inc.", "contoso/productivity/v1.0"),
    customSalesOrderEndpoint_table = Source[{Name="customSalesOrderEndpoint", Signature="table"}][Data],
    #Filtered Rows = Table.SelectRows(customSalesOrderEndpoint_table, each [status] = "Open")
in
    #Filtered Rows
```

## Final comments

- Power Apps/Automate connector – released
- Power BI connector – scheduled for May
- Supported versions:
  - Any - works before 2021 rw1 (v18)
- Changes rolled out independent of the release
  - Even if you decide to postpone v18 - you get the new connectors
- On-premises – still supported, no changes to our connectors

• Also, please watch the session: Virtual tables for Microsoft Dataverse

• Feedback: Yammer or <https://aka.ms/bcideas>

