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Developing for Modern clients

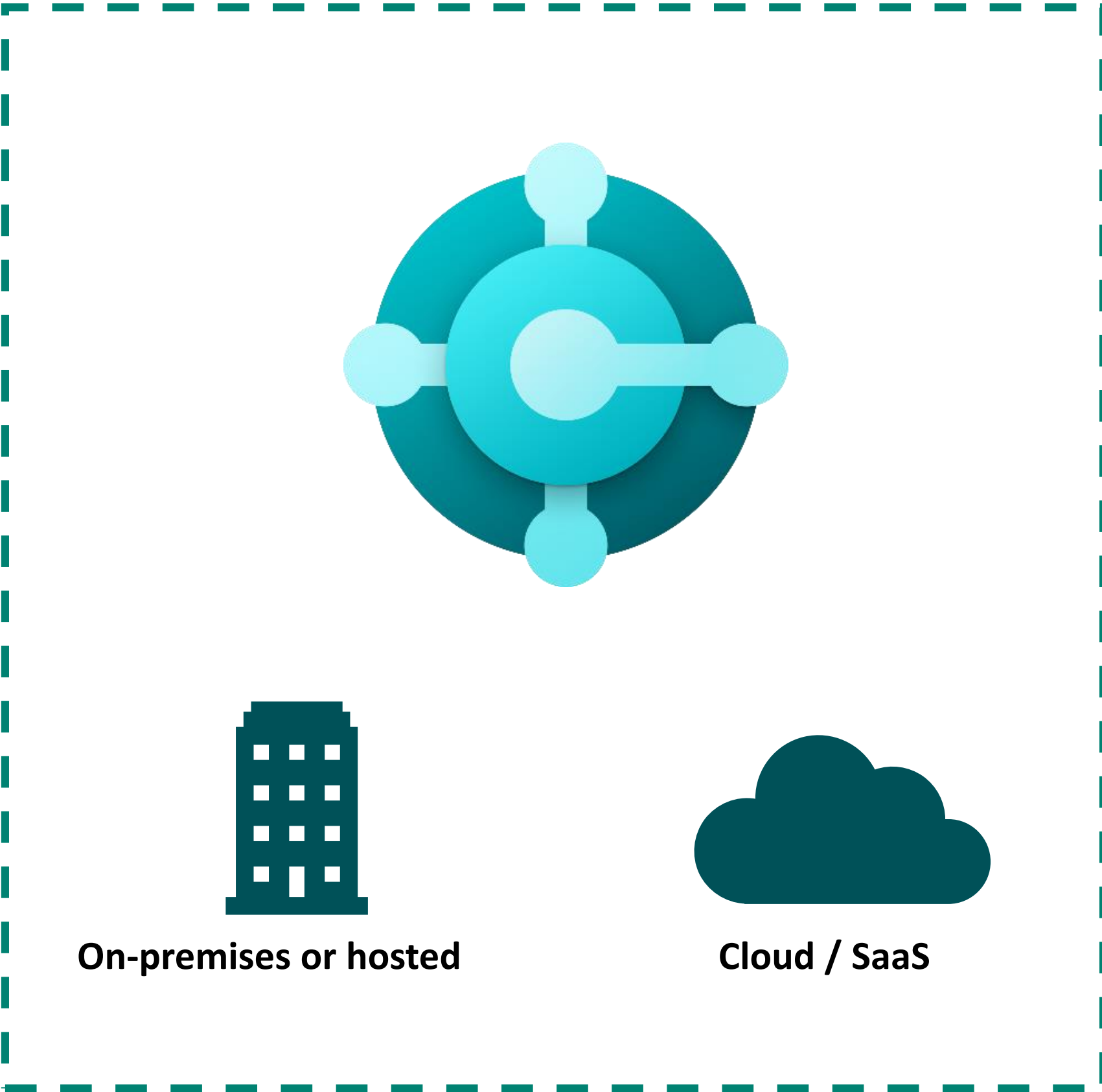
Tomas Grubliauskas, Horina Serbanescu, Ievgenii Korovin
MICROSOFT DEVELOPMENT CENTER COPENHAGEN

When you are passionate about
Microsoft Dynamics NAV/365 Business Central

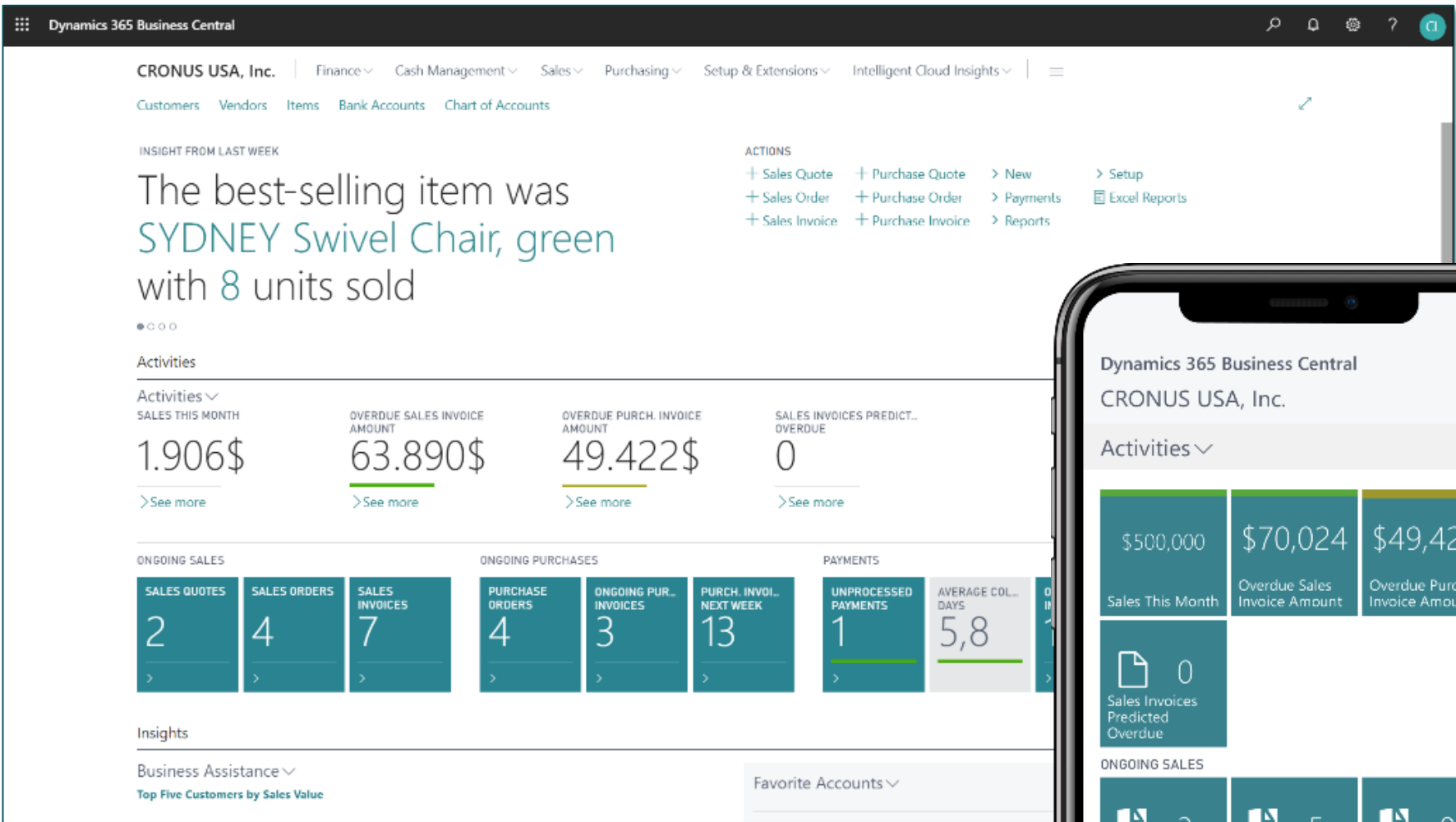


Modern Clients

Business Central Modern Clients



Any modern browser (or Windows 10 PC via app)

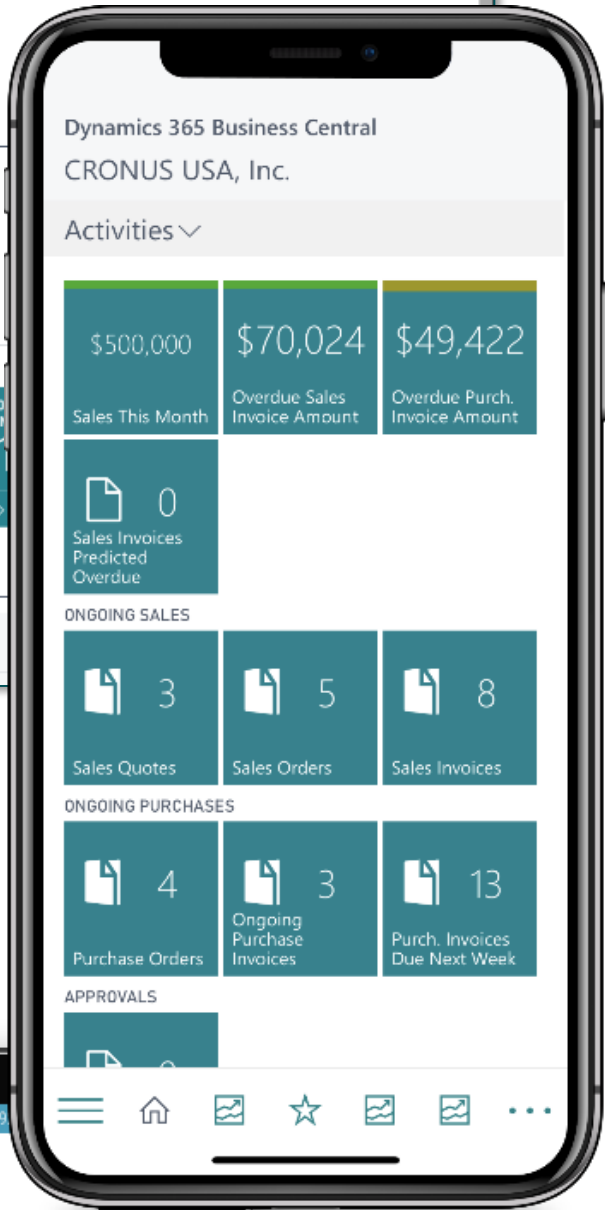
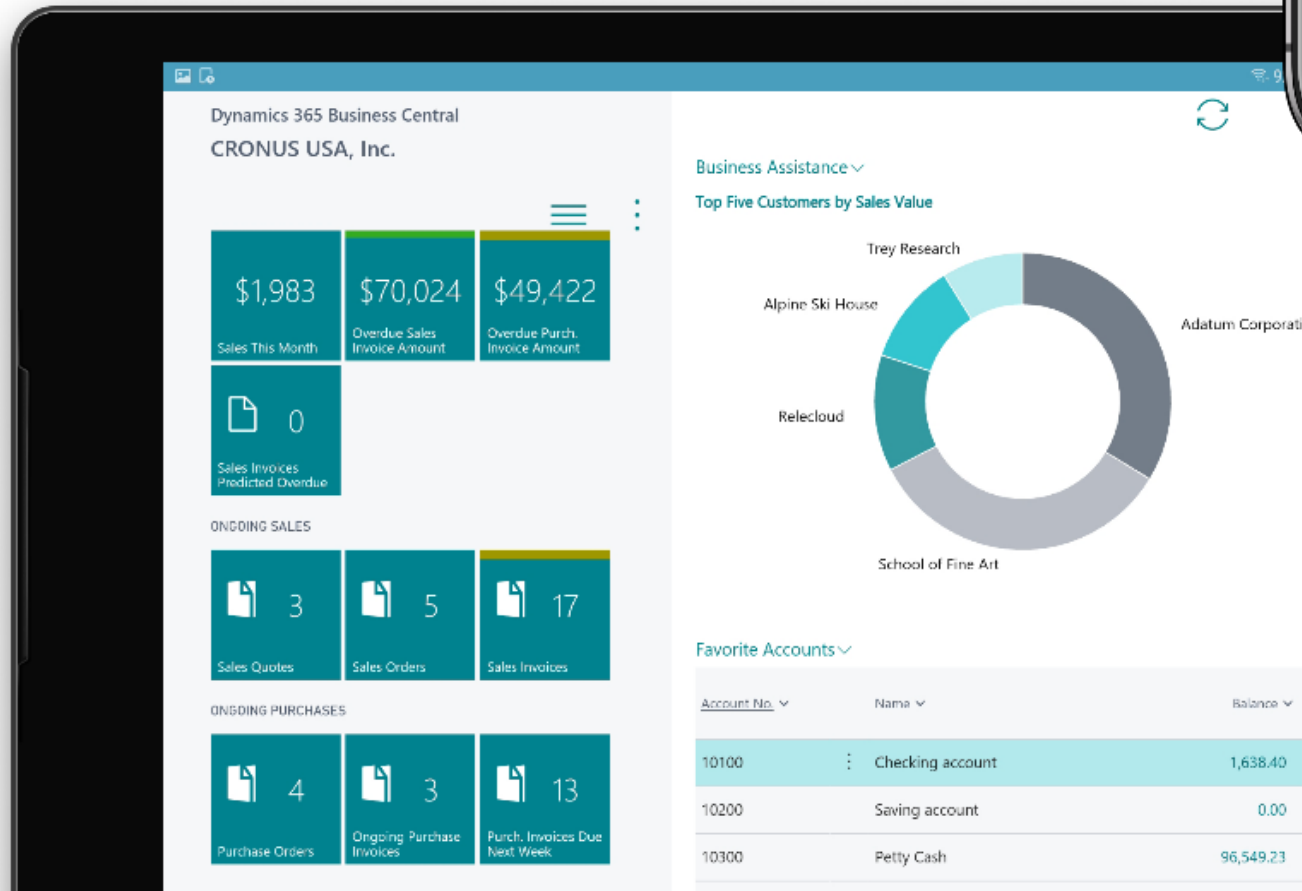


Outlook



Excel

Windows, Android or Apple tablet



Android or iPhone

About Windows Client (RTC)...

- Discontinued, but no impact on existing installations
- Will be maintained till the end of the support cycle
- Included in Business Central April 2019. Can still be sold until October 2020.
- Want to know more? Look for a FAQ from us coming shortly.

Objectives

1

Consultant journey

2

Working smarter

3

Developing for Modern Clients

4

What's next

Working with Modern Clients - consultant journey



Why does role tailoring matter?

"In NAV, it was possible to configure profiles by making use of configuration mode. This way, you can change the lay-out of pages for each group of users, such as bookkeepers, warehouse workers..."

In Business Central, there doesn't seem to be a configuration mode...It is not efficient to change the designs of hundreds of pages user by user!

Are we the only partner who finds this a huge problem?"

What is a role?



What is inside a Role?

- Name and description etc.
- Role center
- Navigation
- Settings
- Customizations
- Extensions

The screenshot shows the 'PROFILE (ROLE)' configuration page for 'Business Manager'. The interface includes a top bar with navigation icons and a 'SAVED' status. Below the title, there are action buttons: 'Copy profile...', 'Clear customized pages', 'Navigate', and 'Fewer options'. The 'General' section contains fields for 'Profile ID' (BUSINESS MANAGER), 'Source' (Base Application), 'Display Name' (Business Manager), and 'Description'. A tooltip for 'Profile ID' explains its functionality. The 'Role Center ID' is set to 9022, and the 'Enabled' toggle is turned on. The 'Profile Settings' section at the bottom includes 'Use as default profile' (enabled), 'Disable personalization' (disabled), and 'Show in Role Explorer' (enabled).

PROFILE (ROLE) ✓ SAVED

Business Manager

Copy profile... Clear customized pages | Navigate Fewer options ⓘ

General

Profile ID BUSINESS MANAGER
Source Base Application
Display Name Business Manager
Description
Role Center ID 9022 ...
Enabled ☒

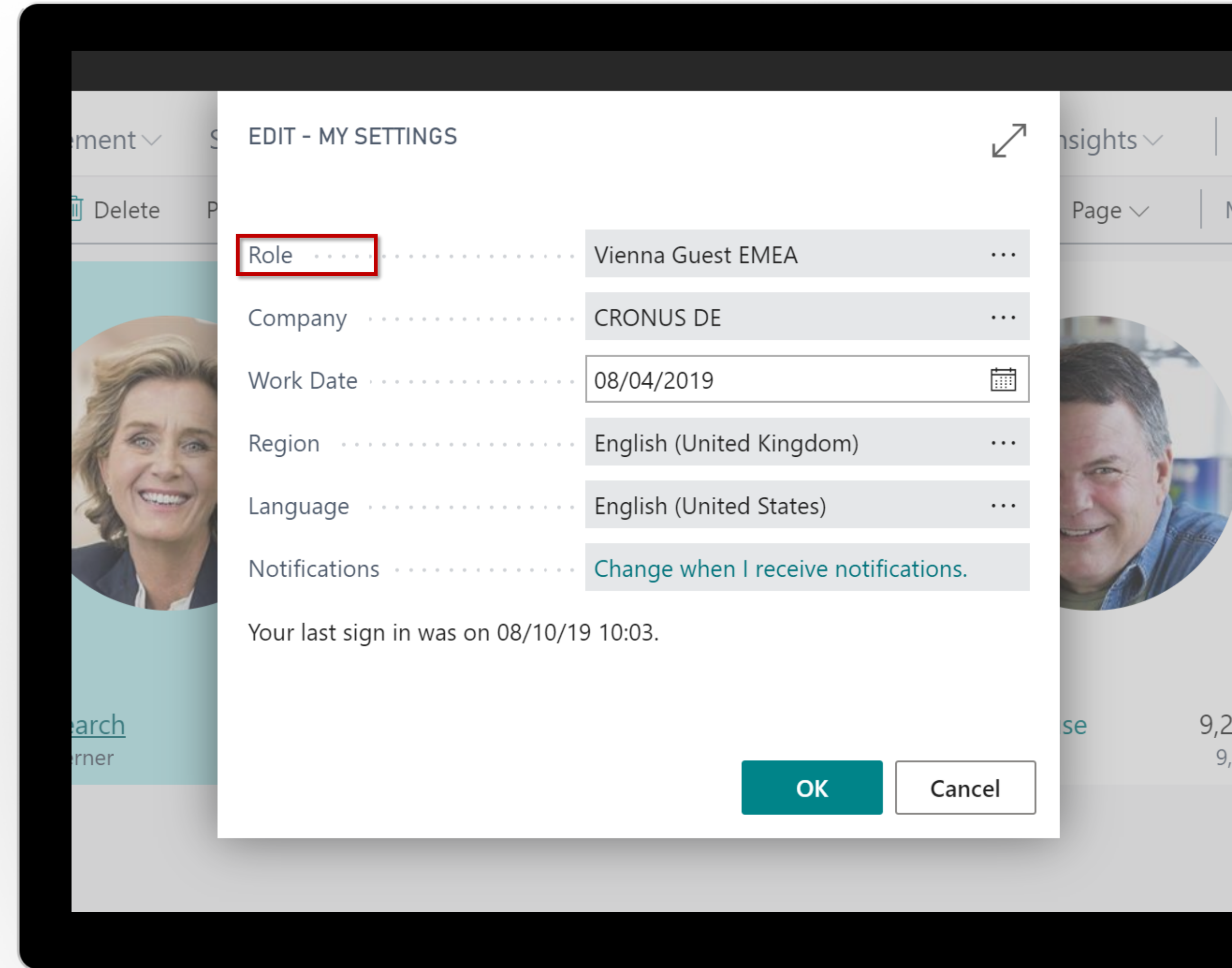
Functionality for managers in charge of keeping the business viable by determining product

Profile Settings

Use as default profile ☒ Show in Role Explorer ☒
Disable personalization ☐

End user sees “Role”, except some Admin tasks

- Assign users to roles
- Use My Settings to change
- Note: Alt+T



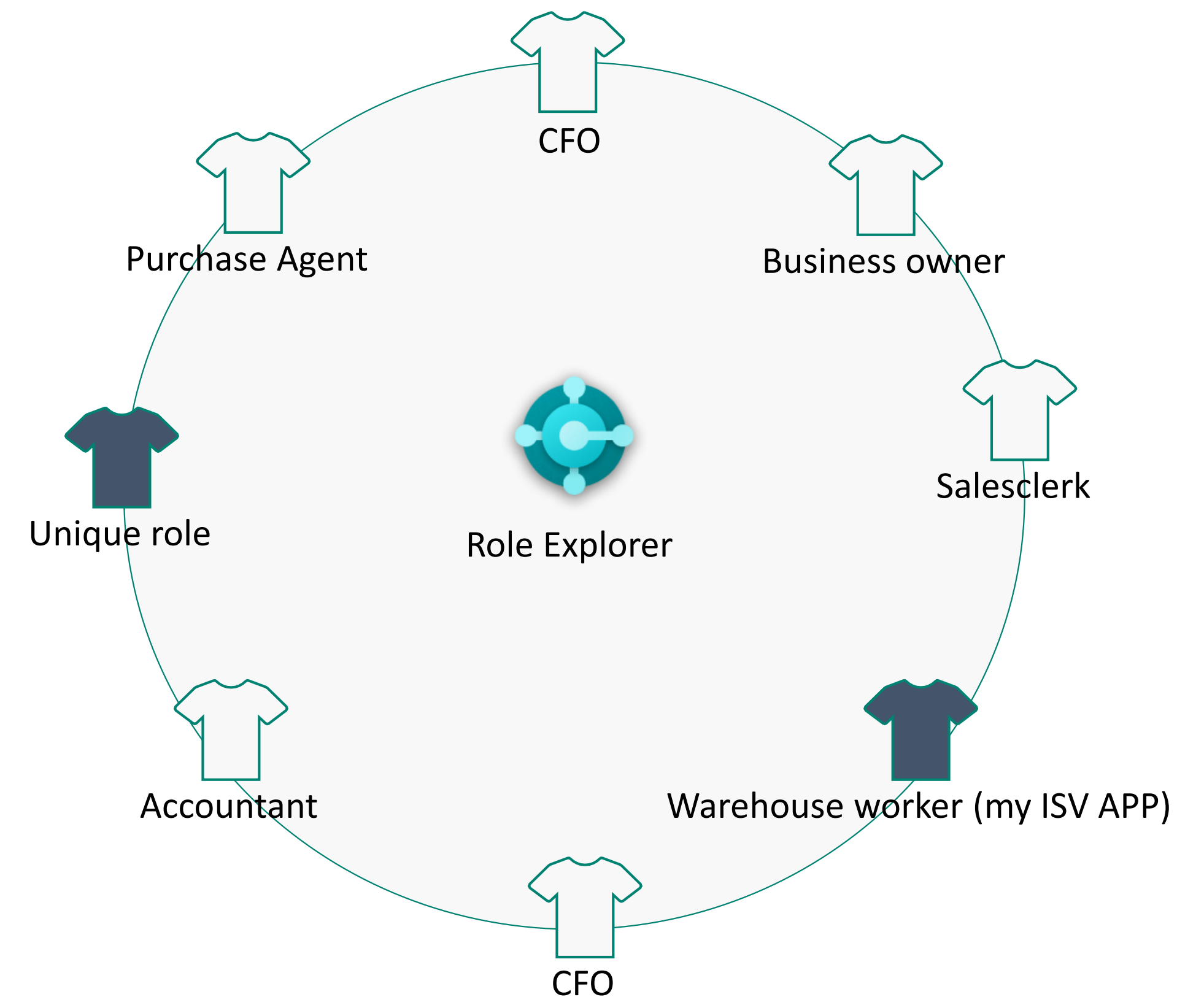
Role Explorer - Explore Business Central beyond limits

Why not to use menu suite/departments again?

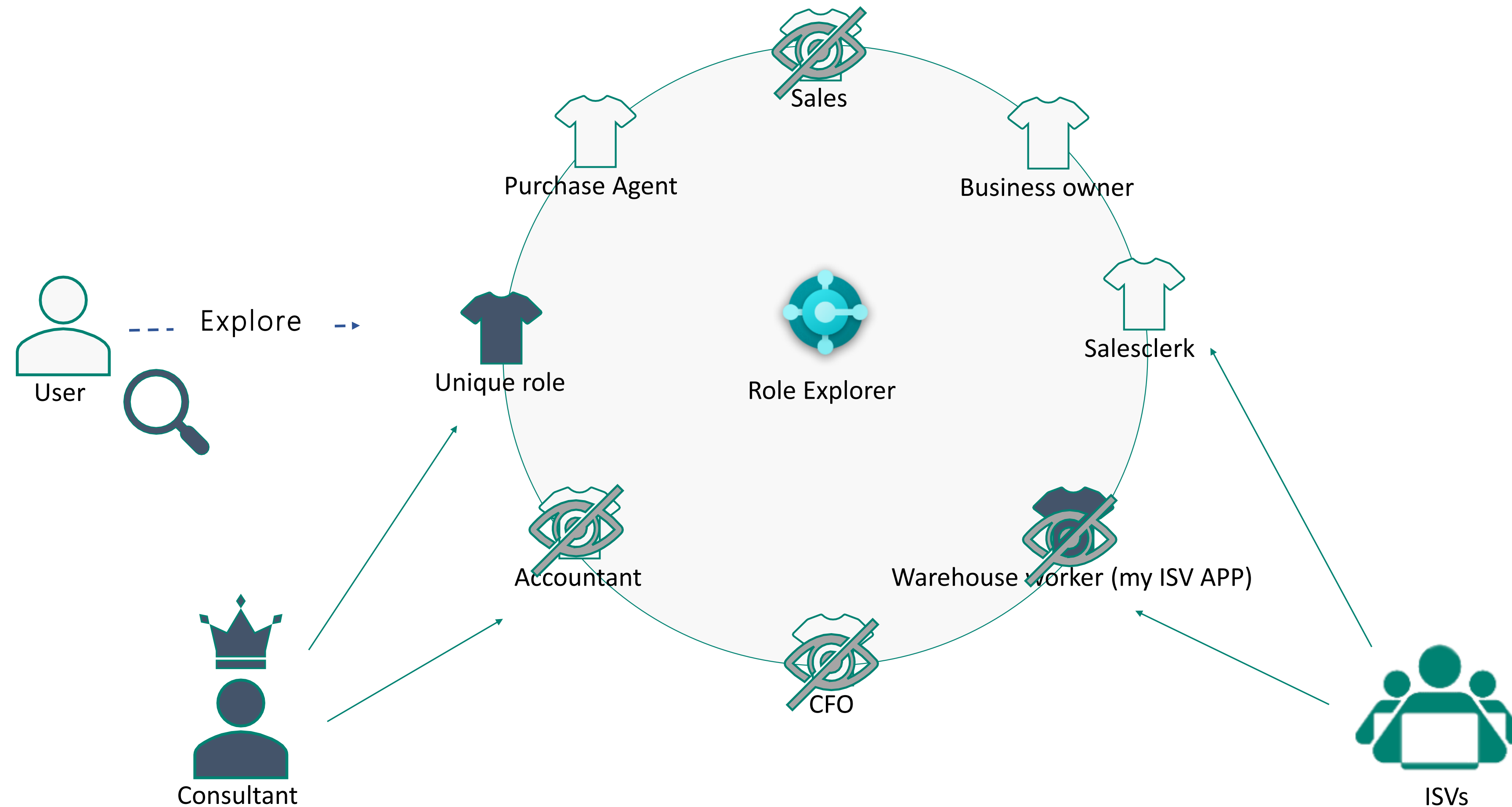
Every ERP user expects an intuitive data layout, within our domain in order to find information fast

- Money (AR, AP, GL)
- People (Vendors, Customers, Contacts)
- Products (Items, Services)
- Financial Reports
- Administration tasks etc.

All Roles combined will cover it all.
We want to keep things simple



Role Explorer – explorer all in one view



Tell me for *search*, Role Explorer for *exploring*...

The screenshot shows the Dynamics 365 Business Central interface. At the top, the header bar displays the Dynamics 365 Business Central logo and a search icon (magnifying glass) which is highlighted with a red box. Below the header, the main content area is divided into several sections. On the left, there's a sidebar with navigation links like 'Customers', 'Vendors', and 'Items'. The main area features a large card titled 'The best-seller SYDNEY Sch... grün with 8...'. Below this, there's a section for 'Activities' and a summary of 'SALES THIS MONTH' with a value of €1,915. To the right, there's a 'Tell me what you want to do' search bar. This search bar has a text input field containing 'rol' and a list of suggestions. The suggestions are categorized into 'Go to Pages and Tasks' (Control Add-ins, Profiles (Roles), My Settings) and 'Go to Reports and Analysis' (BOM Cost Share Distribution). At the bottom of the search bar, there's a link 'Try exploring' which is highlighted with a red box. A red circle is drawn around the 'Try exploring' link and the 'Go to Reports and Analysis' section. The bottom of the interface shows a summary of 'OVERDUE SALES INVOICE AMOUNT' (€92,728) and 'OVERDUE PURCH. INVOICE AMOUNT' (€54,136), along with 'SALES INVOICES PREDICT... OVERDUE' (0).

Dynamics 365 Business Central

CRONUS DE | Finance

Customers Vendors Items

INSIGHT FROM LAST WEEK

The best-seller SYDNEY Sch... grün with 8...

Activities

Activities

SALES THIS MONTH

€1,915

> See more

OVERDUE SALES INVOICE AMOUNT

€92,728

> See more

OVERDUE PURCH. INVOICE AMOUNT

€54,136

> See more

SALES INVOICES PREDICT... OVERDUE

0

> See more

TELL ME WHAT YOU WANT TO DO

rol

Go to Pages and Tasks

- > Control Add-ins
- > Profiles (Roles)
- > My Settings

Go to Reports and Analysis

- > BOM Cost Share Distribution

Didn't find what you were looking for? Try [exploring](#)

Lists

Lists

Administration

Reports and Analysis

> Reports

> Setup

Excel Reports

Role tailoring – self serve tools to empower consultants

Code free customizations with Modern Clients

My changes

User-made customizations

Personalization
Mode

Changes for a
specific Role

Page customization made by user for a specific Role

Role
Customization

Page customization for a Role that is part of installed extension

NEW in 2019

My org changes
for ALL users

Page extension
(coming from any App with source
extension as a dependency)

Page
extension

[...]

Sandbox
Designer

Base page (coming from System Application, Base App, ISV Apps)

Code free customizations – all together



My changes

3

Personalization
Mode

Changes for a
specific Role

2

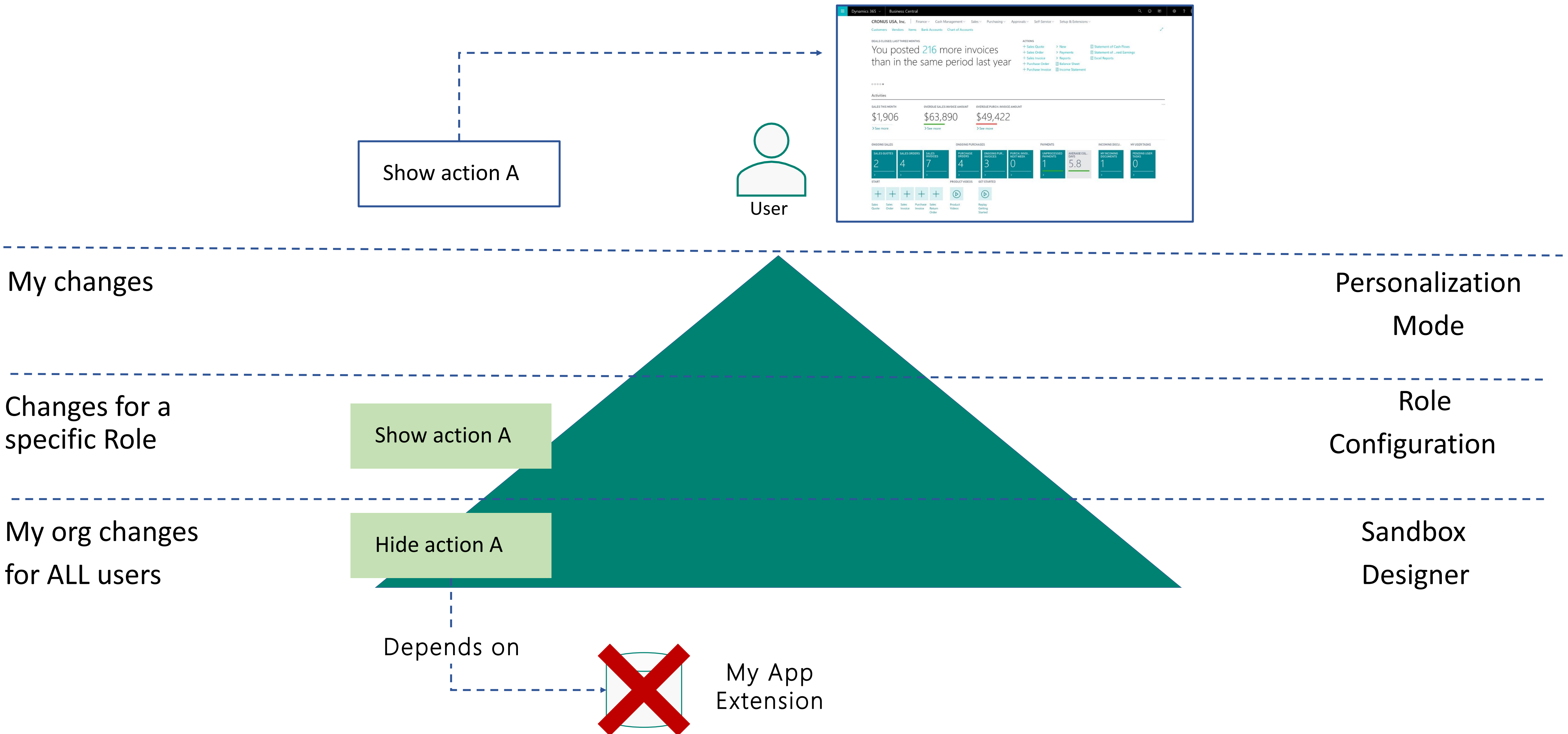
Role
Customization

My org changes
for ALL users

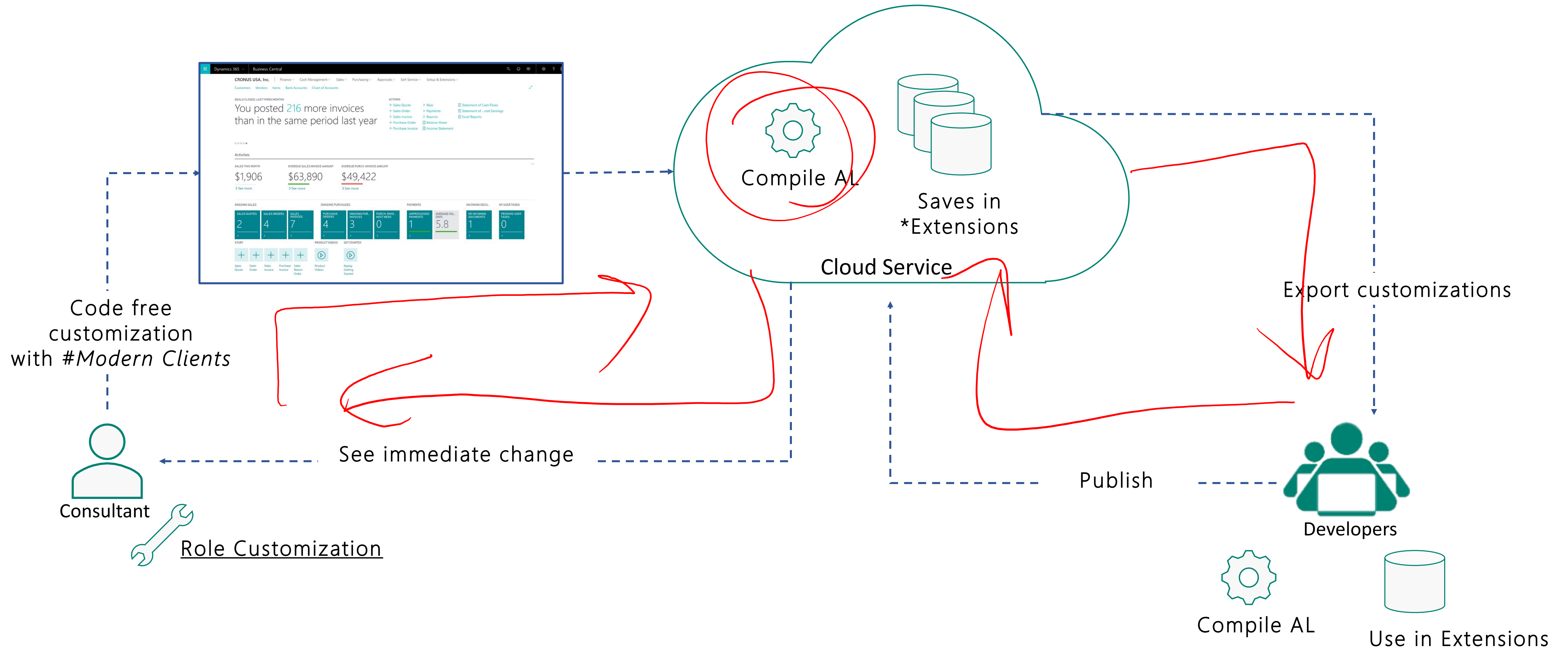
1

Sandbox
Designer

Keep things simple – soft dependencies to get predictable outcome.



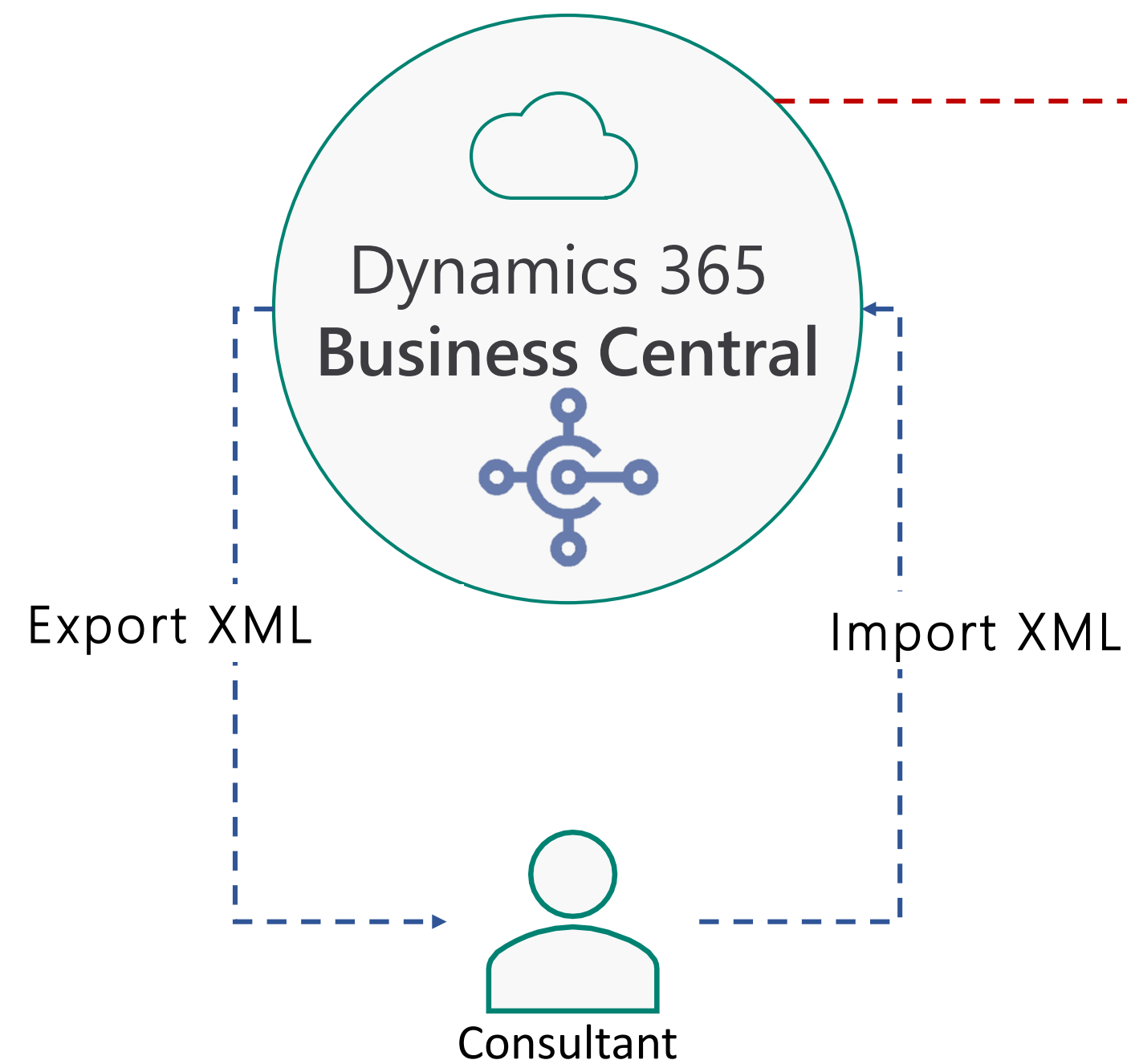
Role customization – Cloud ready. Running AL behind a scene



Role tailoring **behind a scene**

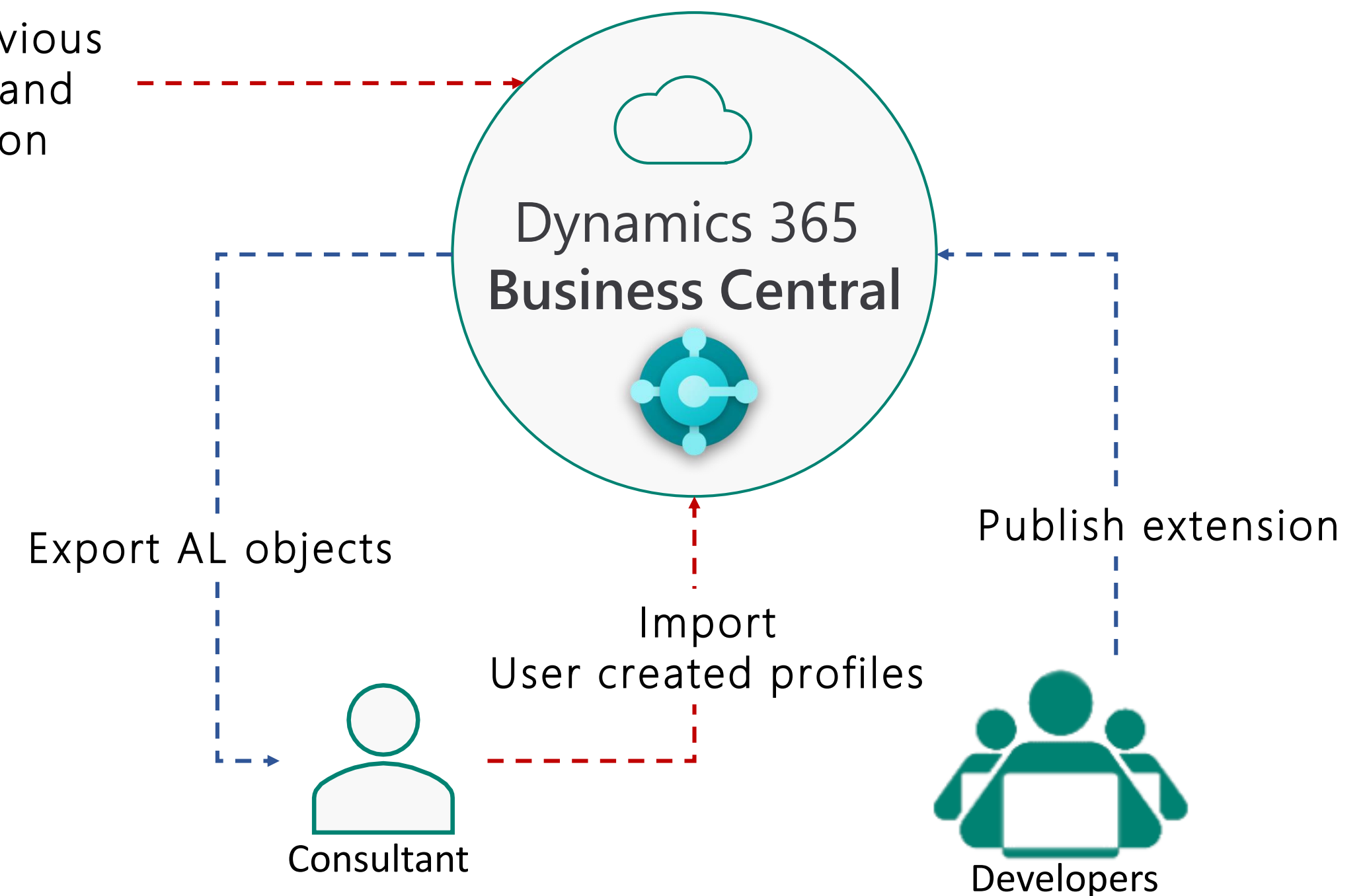
How does role (profile) import/export story is different from NAV/BC14.x

XML definition with a specific format



Upgrade of previous configuration and personalization

Cloud ready. Running AL behind a scene



Upgrade & Profiles as AL objects

- Profiles are AL objects
- Page customizations are also AL objects.
- No upgrade to change profile
- No upgrade for V1 configurations, but they are still in the database

```
profile NavTechDaysUser
{
    CaptionML = ENU = 'Nav Tech Days Role';
    Enabled = true;
    ProfileDescriptionML = ENU = 'Nav Tech Days Role';
    Promoted = true;
    RoleCenter = 9022;
    Customizations = myRoleSpecificCustomization;
}

1 reference
pagecustomization myRoleSpecificCustomization customizes "Business Manager Role Center"
{
    layout
    {
    }
    actions
    {
        modify("Purchase Quote")
        {
            Visible = false;
        }
    }
}
```


Design (which table to use)

Before

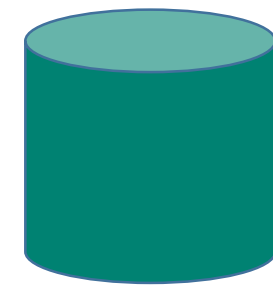


Table 2000000178
All Profile

Table 2000000177
Tenant Profile
→ Profiles created by the
user or extension

Table 2000000172
Profile
→ Profiles provided by
Microsoft/ISV

Now

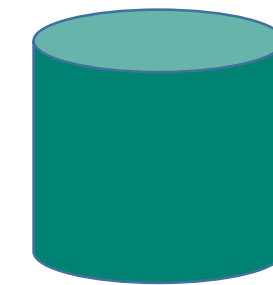


Table 2000000178

All Profile

- All Profile is the preferred one to use for read operations
- We discourage to insert into it during install or upgrade: all the profiles should now come as AL objects. You can use it for any CRUD operation in your normal code.
- You can (but shouldn't) use Tenant Profile in very specific cases, e.g. insert during upgrade/on-install if you need to create a profile on-the-go

Table 2000000177

Tenant Profile

- Every profile is here
- The reason we still have AllProfile is mainly for convenience: it translates fields in the right language, and it unpacks some fields that in the Tenant Profile table are stored in a BLOBs

Call to action and learn more

- Use Role Explorer and provide feedback
- Pre-sales: Show & do role customization on live systems!
- Role tailoring: Get up to date what you can do with modern clients now
- Consultants, power users are empowered as never before



<http://aka.ms/bcnocode>

Working smarter with Modern Clients



Shared layout in Views

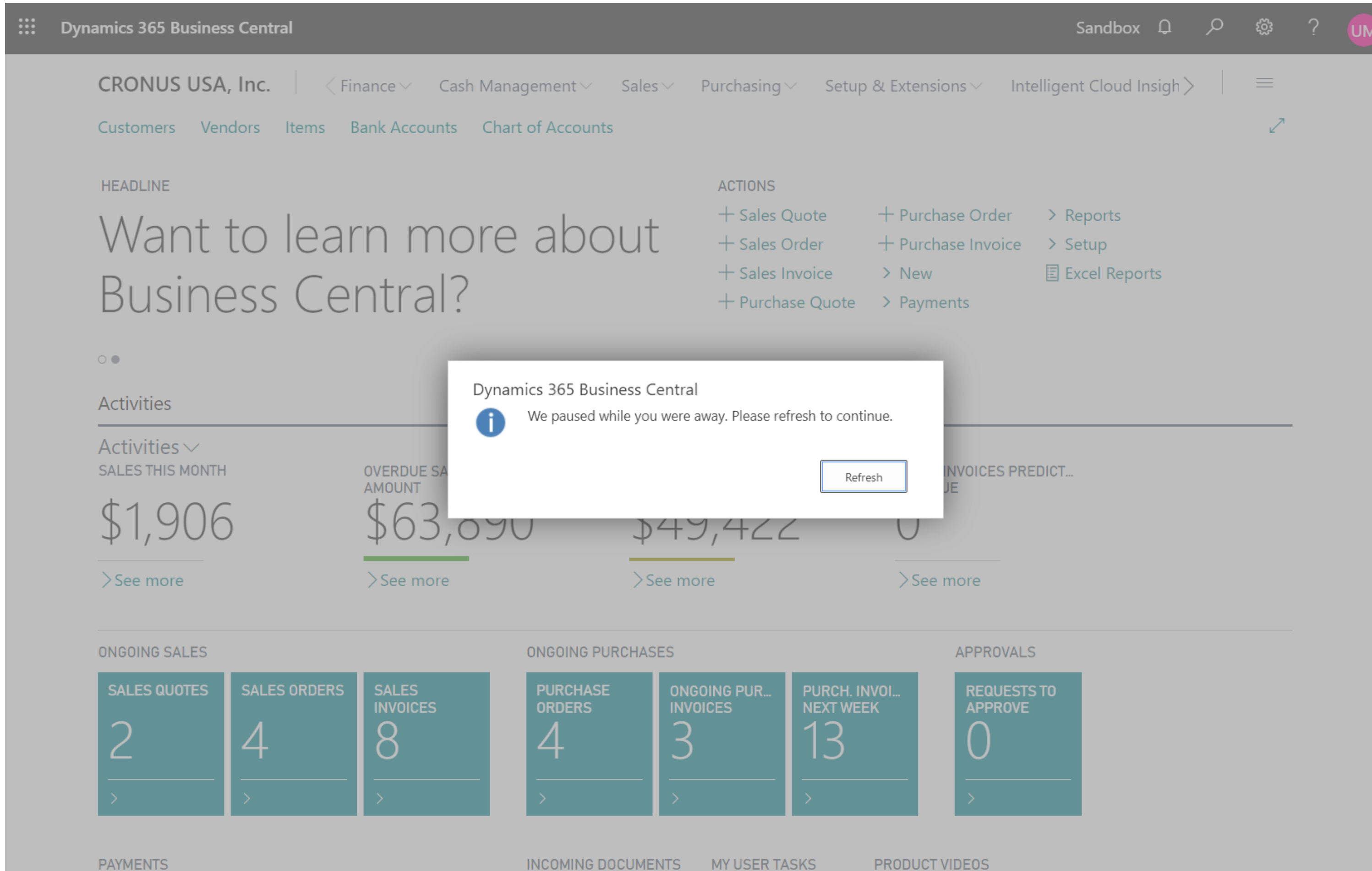
```
view(SharedLayoutView)
{
    Filters = where(Inventory = filter(> 0));
    OrderBy = ascending(Description);
    SharedLayout = false;
    layout
    {
        modify(Description)
        {
            Width = 42;
        }

        modify(Control1)
        {
            FreezeColumn = Description;
        }

        modify("Assembly BOM")
        {
            Visible = false;
        }
    }
}
```


Demo – being even more productive

Session Timeout



Business Central online

- The duration of a client session timeout has been expanded to **2 hours** for Business Central online

On-premises

- Administrators continue to have control over timeout, which defaults to 20 minutes

Multitasking across pages

The image shows two browser windows side-by-side, both displaying the Dynamics 365 Business Central interface for 'CRONUS USA, Inc.'. The left window is titled 'Items - Dynamics 365 B' and shows a grid of furniture items. The right window is titled 'View - Chart of Account' and shows a 'CHART OF ACCOUNTS' table.

Left Window: Items - Dynamics 365 B

Items: All | Search | + New | Delete | Process | Item | ...

Item No.	Item Name	Quantity	Unit	Price
1896-S	ATHENS Desk	4	PCS	1,000.80
1900-S	PARIS Guest Chair, black	0	PCS	192.80
1906-S	ATHENS Mobile Pedestal	5	PCS	433.60
1908-S	LONDON Swivel Chair, blue	3	PCS	190.10
1920-S	ANTWERP Conference Table	10	PCS	647.80
1925-W	Conference Bundle 1-6	0	PCS	188.80
1928-S	AMSTERDAM Lamp	8		
1929-W	Conference Bundle 1-8	0		
1936-S	BERLIN Guest Chair, yellow	100		

Right Window: View - Chart of Account

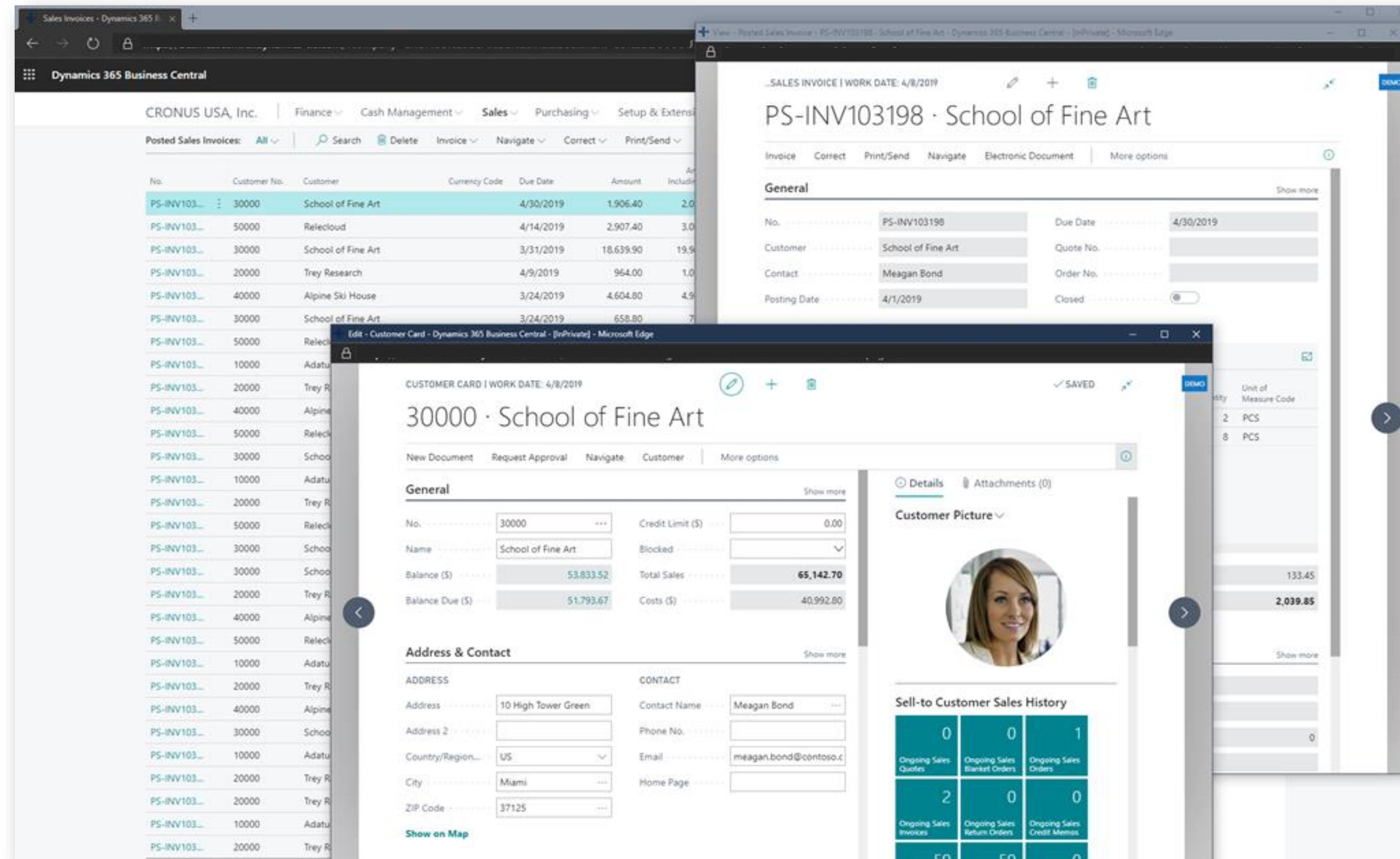
CHART OF ACCOUNTS | WORK DATE: 4/8/2019

No.	Name	Net Change	Balance	Income
10000	BALANCE SHEET	-	-	Bala
10001	ASSETS	-	-	Bala
10100	Checking account	1,638.40	1,638.40	Bala
10200	Saving account	-	-	Bala
10300	Petty Cash	96,549.23	96,549.23	Bala
10400	Accounts Receivable	72,893.84	72,893.84	Bala
10500	Prepaid Rent	-	-	Bala
10600	Prepaid Insurance	-	-	Bala
10700	Inventory	73,141.26	73,141.26	Bala
10800	Equipment	5,498.00	5,498.00	Bala
10900	Accumulated Depreciation	3,499.00	3,499.00	Bala
10910	WIP Job Sales	-	-	Bala
10920	Invoiced Job Sales	-	-	Bala
10940	Accrued Job Costs	-	-	Bala
10950	WIP Job Costs	-	-	Bala
10990	TOTAL ASSETS	253,219.73	253,219.73	Bala
20001	LIABILITIES	-	-	Bala
20100	Accounts Payable	-51,750.97	-51,750.97	Bala
20200	Purchase Discounts	-	-	Bala
20300	Purchase Returns & Allowances	-	-	Bala
20400	Deferred Revenue	-	-	Bala
20500	Credit Cards	-	-	Bala
20600	Sales Tax Payable	-9,792.32	-9,792.32	Bala
20700	Accrued Salaries & Wages	-	-	Bala
20800	Federal Withholding Payable	-	-	Bala
20900	State Withholding Payable	-	-	Bala
21000	FICA Payable	-	-	Bala
21100	Medicare Payable	-	-	Bala
21200	FUTA Payable	-	-	Bala
21300	SUTA Payable	-	-	Bala

New browser tab

- Open several browser tabs or windows while working with the same company
- Work concurrently on any two or more pages without blocking each other
- Each browser window acts as another connection or session

Multitasking across pages



Open a page in a new window

- Pop out a card or document into a smaller, connected window
- Enhance productivity by working with multiple screens or by placing the new windows on top of each other on one screen
- In many cases, the data will synchronize between windows

Uninterrupted data entry

Data entry challenge

- User keystrokes are ignored while OnValidate trigger is running
- User is confused why keystrokes are sometimes lost
- User is forced to work in **Type > Tab > Wait > Type** pattern

Type	No.	Description	Location Code	Quantity
→ Item ▾	*	*		

Adding a sales line...

Type	No.	Description	Location Code	Quantity
→ Item	*	*		

BC Browser/Device Client

Web Client Service

Adding a sales line...

Type	No.	Description	Location Code	Quantity
→ Item	* <input type="text" value=""/>	* <input type="text" value=""/>		

BC Browser/Device Client

SV
Item

Web Client Service

Adding a sales line...

Type	No.	Description	Location Code	Quantity
→ Item	⋮ 1896-S	<input type="text" value=""/>		*

BC Browser/Device Client

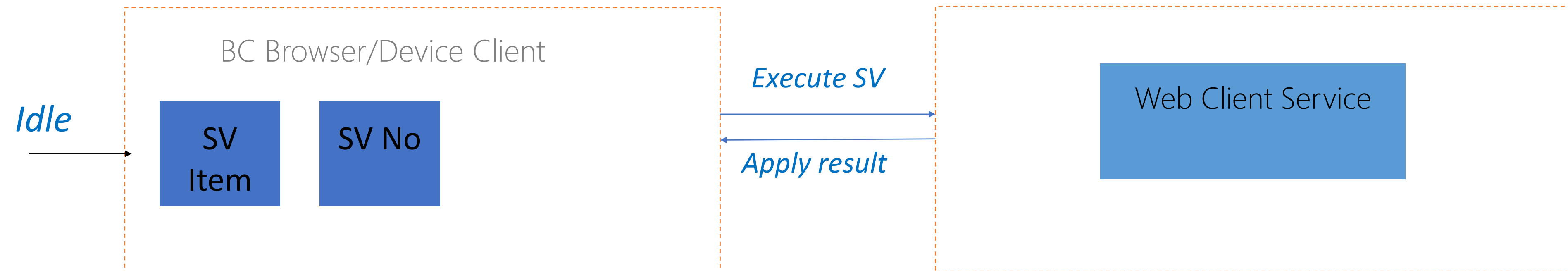
SV
Item

SV No

Web Client Service

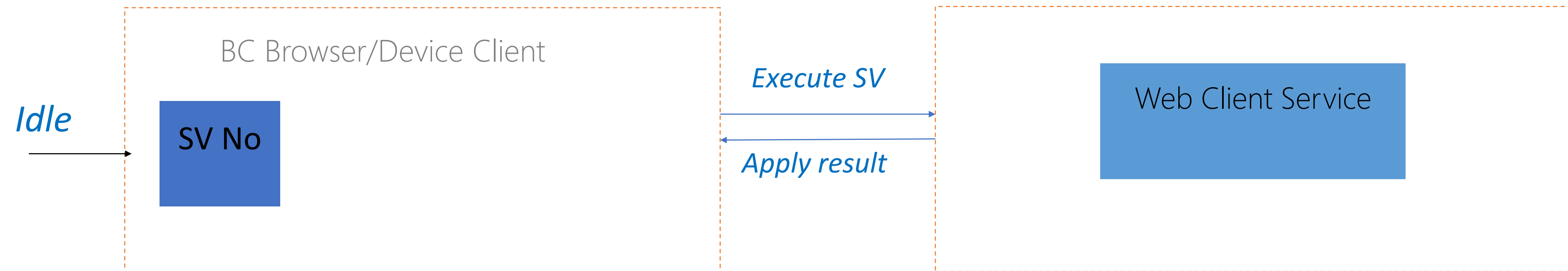
Adding a sales line...

Type	No.	Description	Location Code	Quantity
→ Item	:	1896-S		*



Adding a sales line...

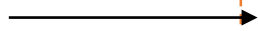
Type	No.	Description	Location Code	Quantity
→ Item	:	1896-S		*



Adding a sales line...

Type	No.	Description	Location Code	Quantity
→ Item	1896-S	<input type="text"/>		*

Idle



BC Browser/Device Client

Web Client Service

Application keyboard shortcut support

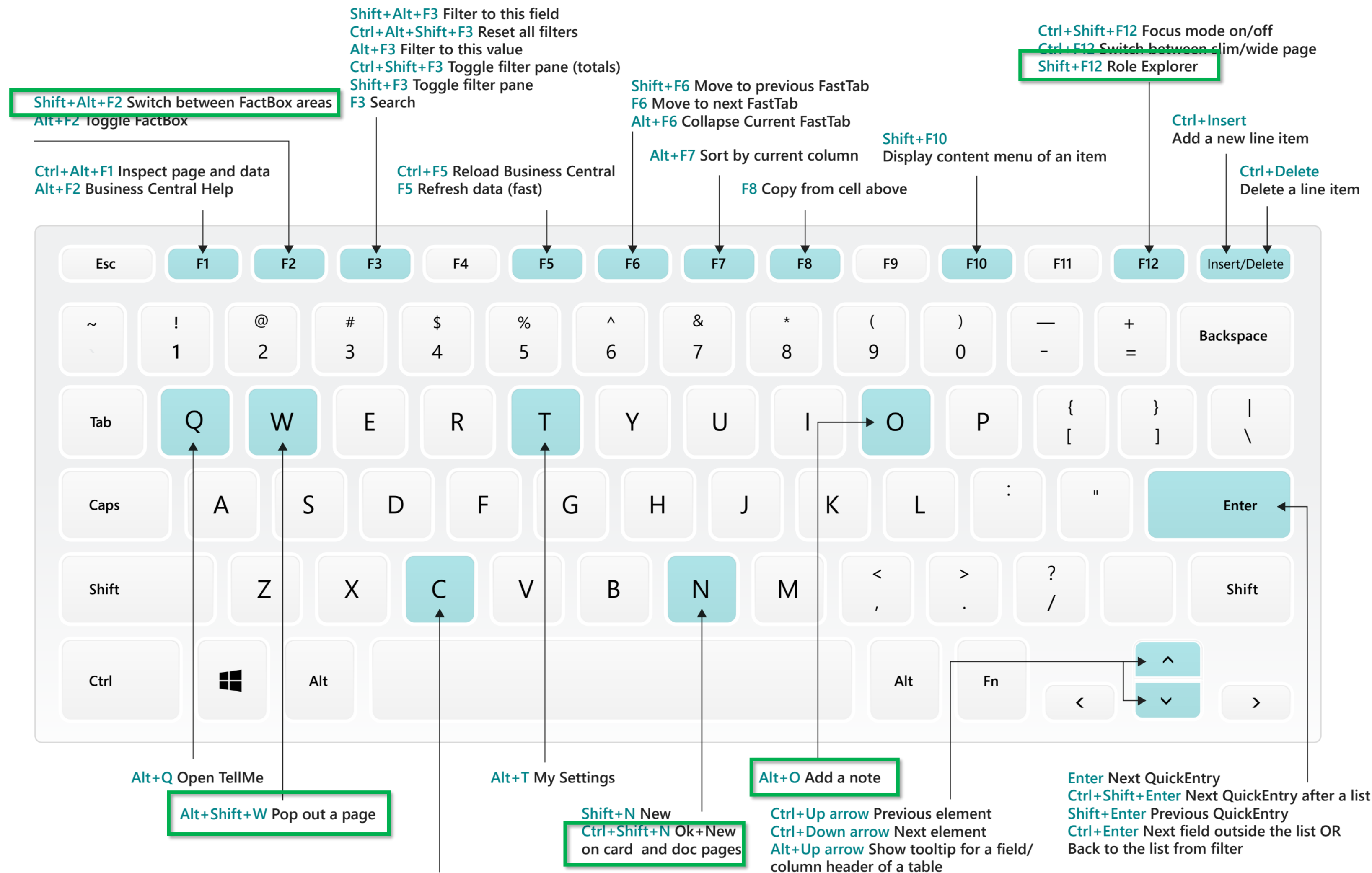
The screenshot shows the 'Post' action tooltip for a sales invoice in Dynamics 365 Business Central. The tooltip title is 'SALES INVOICE | WORK DATE: 4/8/2019'. The invoice number is 'S-INV102205' and the customer is 'Relecloud'. The 'Posting' tab is selected, showing the 'Post' action. A red circle highlights the keyboard shortcut '(F9)' in the tooltip description: 'Finalize the document or journal by posting the amounts and quantities to the related accounts in your company books. (F9)'. Below the description, there are fields for 'Customer Name' (Relecloud), 'Posting Date' (4/2/2019), 'Contact' (Jesse Homer), and 'Due Date' (4/16/2019).

- Application developers can specify keyboard shortcuts for actions in the base application and their own objects in their extensions
- Developers can enable shortcut keys through the **ShortcutKey** property in AL
- Enhance the predefined list of keyboard shortcuts in Business Central with your own
- This supports auto update of the tooltips

New system keyboard shortcuts



Business Central Keyboard Shortcuts



Updated keyboard shortcuts map

Additional shortcuts:

- Pop-out a card or document:
Alt + Shift + W
- Add a note: Alt + O
- Role Explorer: Shift + F12
- Many more at
<https://aka.ms/bckey>

New cheat sheet - Productivity Tips

- Basics of the user interface
- Most important keyboard shortcuts
- Most important tips on filtering and data entry
- Available as PDF download: aka.ms/bcproductivity



Business Central - Productivity tips

General functions

Keyboard shortcuts

Ctrl+F1
Business Central Help

Alt+T
My Settings

Alt+Q (🔍)
Open Tell Me

F5
Refresh data

Shift+F12 (≡)
Role Explorer

Alt+N (+)
Create a new record

Alt+Shift+N
Close a newly created record and create a new one

Alt+Shift+W (🖥️)
Pop-out a page to a separate window

Ctrl+Alt+F1
Inspect page and data

Alt+O
Add a new note for the selected record

Alt+F2 (📄)
Toggle FactBox area

Ctrl+F12 (↔️)
Switch between slim/wide page

Data in lists

Keyboard shortcuts

Alt+F7
Sort column in asc/desc order

Shift+F3 (🔍)
Toggle filter pane; focus on data filters

Alt+F3
Filter on selected cell value

Ctrl+Shift+F3
Toggle filter pane; focus on totals filters

F3 (🔍)
Toggle the search box

Shift+Alt+F3
Add filter on selected field

Ctrl+Enter
Change focus from filter pane back to list

Ctrl+Alt+Shift+F3
Reset filters

Developing for Modern Clients



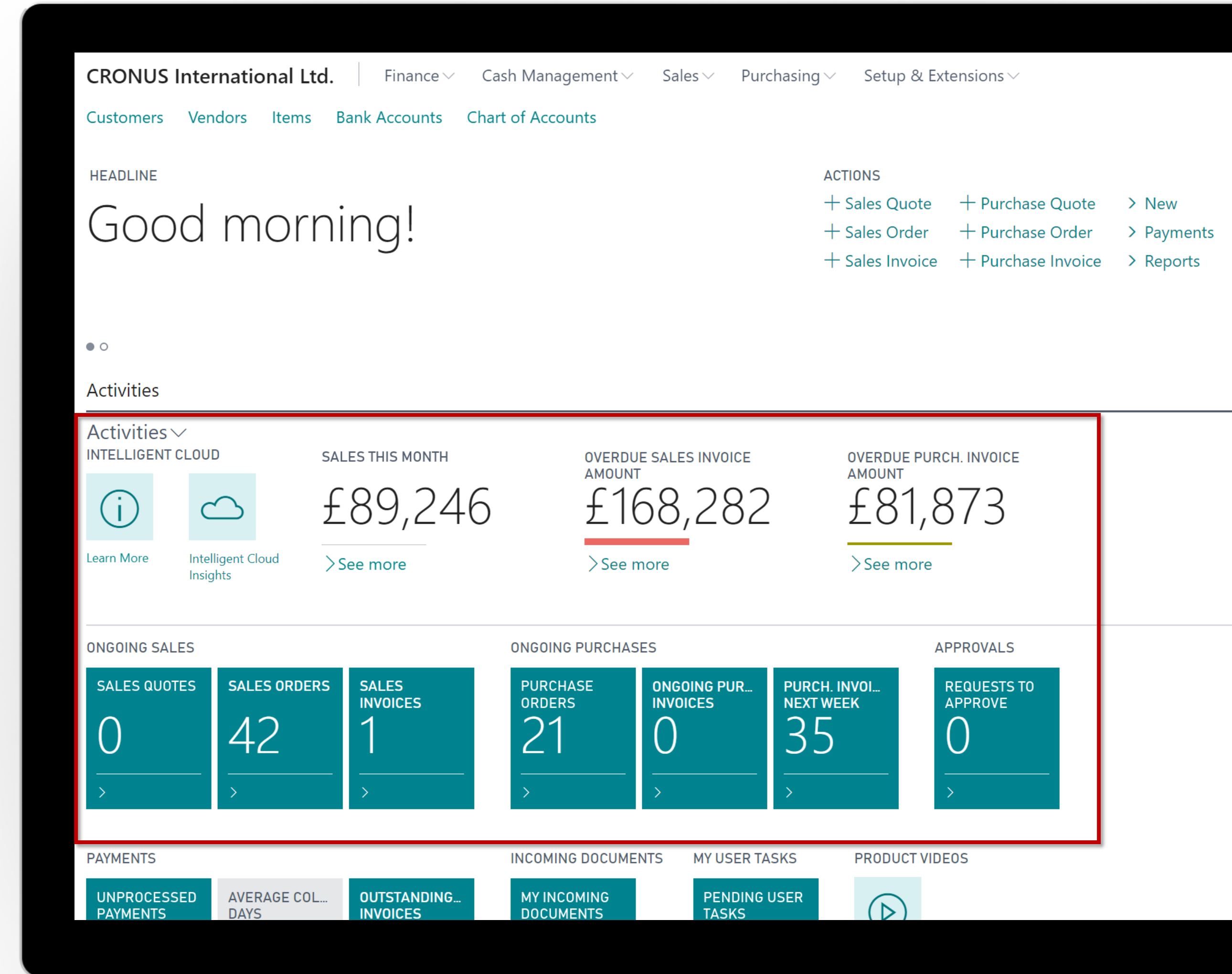
Loading UI **asynchronously** with Modern Clients

Some calculations and queries are expensive...

Waiting while your page is loading is the most annoying thing for the user

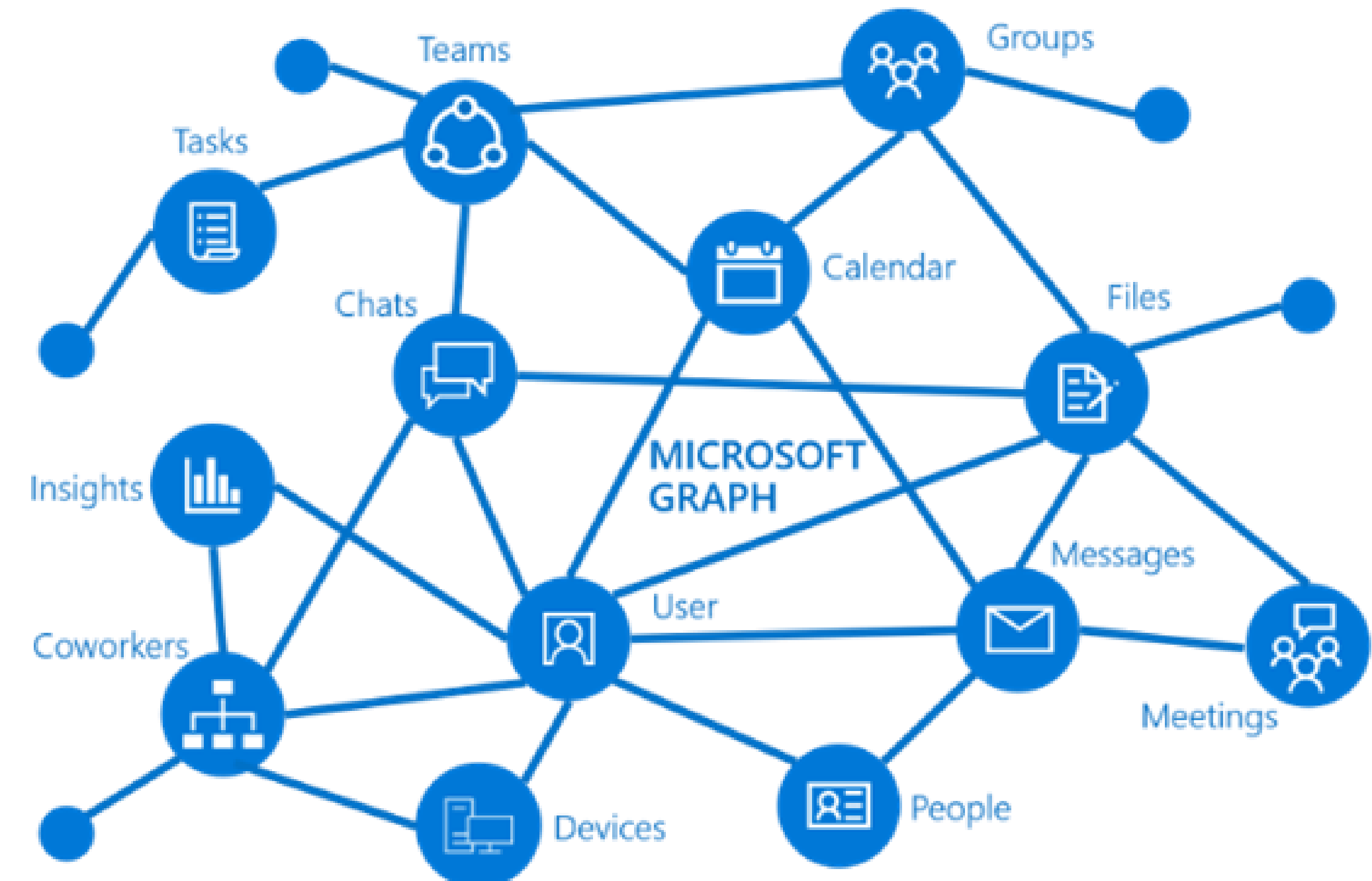
BI & total calculations takes time to run, especially on large dataset

Today: The UI is waiting for calculations to complete. And user waits ages....



Communication with other systems may take time

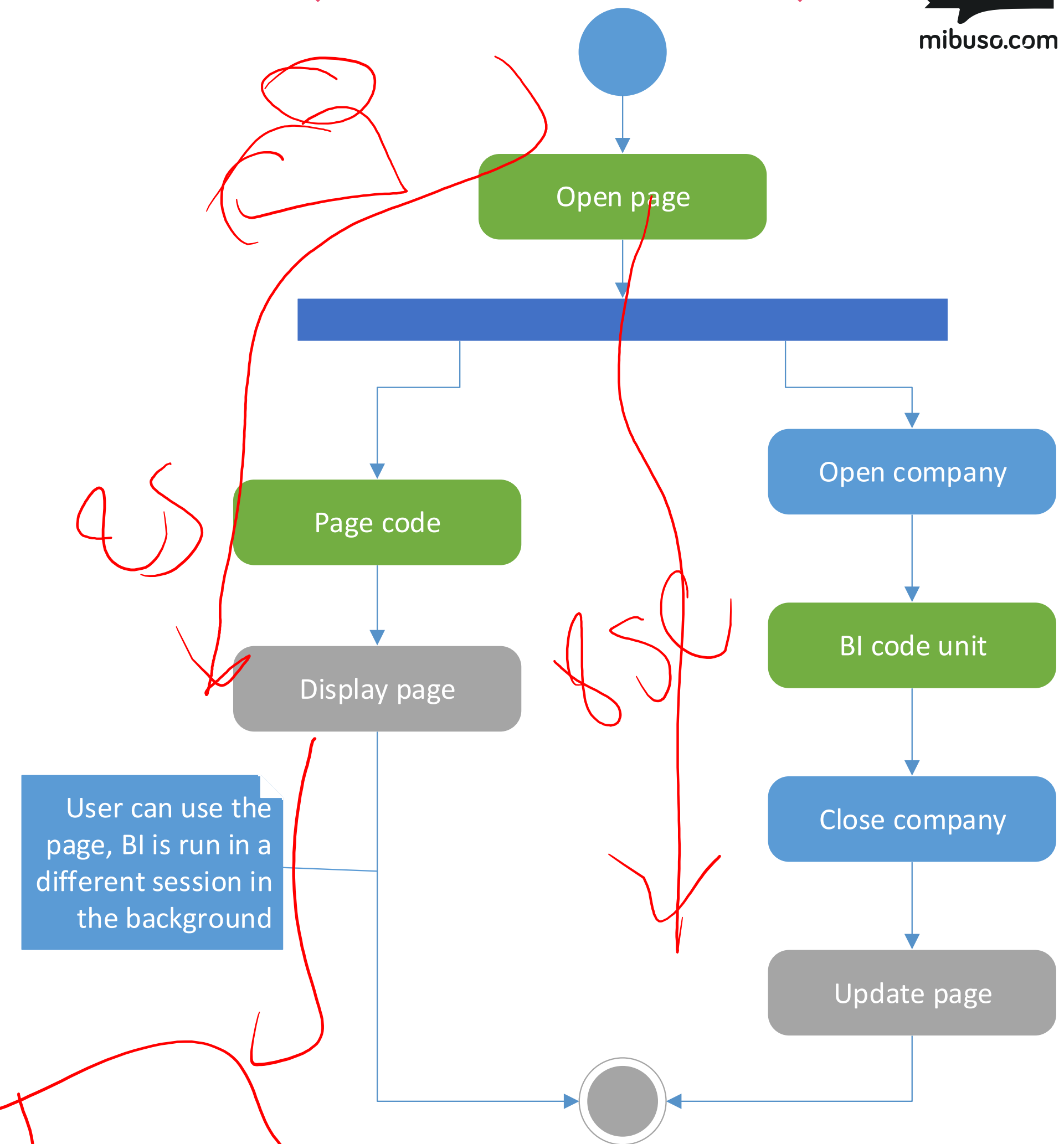
- Response time may be slow
- E.g. Any AL HTTPClient call blocks the UI thread waiting for the result
- Today: The UI is blocked



Loading UI asynchronously - wait less, do more

Welcome Page Background Task (aka PBT)

- Run a code unit as a read-only child session of the page session.
- On completion, invokes a trigger on the parent Page.
- UI is refreshed instantly
- If page is closed before the task completes, or if the page record changed, then the task is cancelled.



Important! OpenCompany triggers



Child sessions opens company

- Any code subscribed to OpenCompany events/triggers will be invoked
- Any database write will prevent child sessions to start
- If an extension makes OpenCompany slower, then all the child sessions will be impacted by that

```
[EventSubscriber(ObjectType::Codeunit, Codeunit::LogInManagement, 'OnBeforeCompanyOpen', '', false, false)]
```

0 references

```
procedure OnBeforeCompanyOpen()
```

```
begin
```

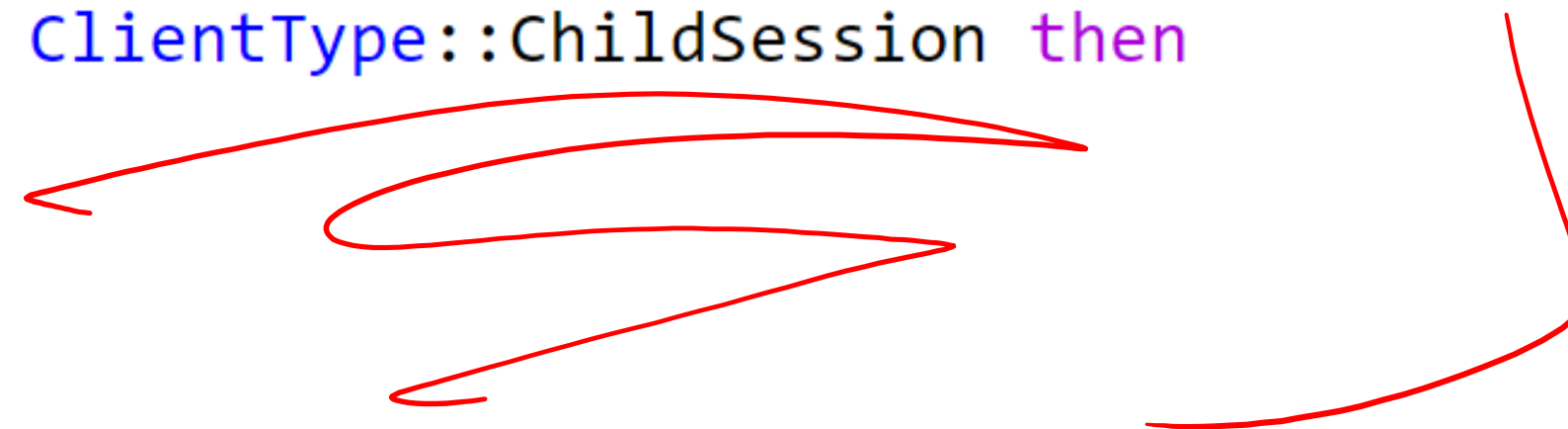
```
    // Excluding child session
```

```
    if Session.CurrentClientType = ClientType::ChildSession then
```

```
        exit;
```

```
    // Normal session
```

```
end;
```



Loading UI asynchronously - AL

How to use a Page Background Task (PBT)

- Create the code unit to run in the background
- Add on the page the call to "Enqueue" it as a PBT
- Add on the page the completion trigger to update the UI
- (Optional): Add on the page the error completion trigger to handle in a specific way errors

```
codeunit 95103 PBTDDataSumConcatRow
{
    TableNo = PBTDData;

    trigger OnRun()
    var
        RecId: Code[10];
        Result: Dictionary of [Text, Text];
    begin
        if not Evaluate(RecId, Page.GetBackgroundParameters().Get('RecId')) then
            Error('RecId couldnt be parsed');

        if not Get(RecId) then
            Error('PBTDData record ID %1 was not found', RecId);

        Result.Add('Sum', Format(IntA + IntB + IntC));

        Page.SetBackgroundTaskResult(Result);
    end;
}
```

How to use a Page Background Task (PBT)

- Create the code unit to run in the background
- **Add on the page the call to “Enqueue” it as a PBT**
- Add on the page the completion trigger to update the UI
- (Optional): Add on the page the error completion trigger to handle in a specific way errors

```
var
    3 references
    TaskSumId: Integer;

trigger OnAfterGetRecord()
var
    TaskParameters: Dictionary of [Text, Text];
begin
    if (TaskSumId > 0) then
        Currpage.CancelBackgroundTask(TaskSumId);

        TaskParameters.Add('RecId', '100');

        CurrPage.EnqueueBackgroundTask(TaskSumId, 95103, TaskParameters,
            1000, PageBackgroundTaskErrorLevel::Warning);
end;
```

How to use a Page Background Task (PBT)

- Create the code unit to run in the background
- Add on the page the call to “Enqueue” it as a PBT
- **Add on the page the completion trigger to update the UI**
- (Optional): Add on the page the error completion trigger to handle in a specific way errors

```
trigger OnPageBackgroundTaskCompleted(TaskId: Integer; Results: Dictionary<Integer, Boolean>)
var
begin
    if (TaskId = TaskSumId) then begin
        Evaluate(RecordSumAsync, Results.Get('Sum'));
    end;
end;
```


How to use a Page Background Task (PBT)

- Create the code unit to run in the background
- Add on the page the call to “Enqueue” it as a PBT
- Add on the page the completion trigger to update the UI
- **(Optional):** Add on the page the error completion trigger to handle in a specific way errors

```
trigger OnPageBackgroundTaskError(TaskId: Integer; ErrorCode: Text; ErrorText: Text;
    ErrorCallStack: Text; var IsHandled: Boolean)
var
    PBTErrNotification: Notification;
begin
    if (ErrorText = 'Could not parse parameter WaitParam') then begin
        IsHandled := true;
        PBTErrNotification.Message('Something went wrong. The start and finish ...');
        PBTErrNotification.Send();
    end

    else
        if (ErrorText = 'Child Session task was terminated because of a timeout.')
        then
            IsHandled := true;
            PBTErrNotification.Message('It took to long to get results. Try again');
            PBTErrNotification.Send();
        end
    end;
end;
```

Debugging

In the 2019 wave 2 release only one session can be debugged at a time

If a breakpoint hit in a child session, the child session will become the debugged session

Locals

> Database Statistics

WATCH

CALL STACK

PAUSED ON BREAKPOINT

OnRun CurrencyRetriever 20:9

```
8 {
9     trigger OnRun()
10    var
11        date: Text;
12        currencyBase: Text;
13        currencies: Text; // Commas separated list of currencies to get
14        results: Dictionary of [Text, Text];
15        jsonContentText: Text;
16        sleepSimulation: Integer;
17    begin
18        // Getting the page background tasks parameters
19        date := Page.GetBackgroundParameters().Get('Date');
20        currencyBase := Page.GetBackgroundParameters().Get('CurrencyBase');
21        currencies := Page.GetBackgroundParameters().Get('Currencies');
22
23        // For demo purpose of slow calls
24        if (Page.GetBackgroundParameters().ContainsKey('SleepSimulation')) then begin
25            ...
26        end
27    end
28 }
```

Call to action and learn more

- Use page background tasks to offload heavy calculations
- Build responsive UI, so user don't need to wait
- Learn more how code and adopt page background tasks today

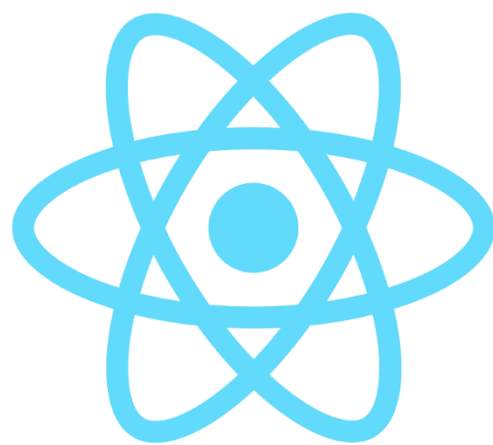


[Page background tasks](#)

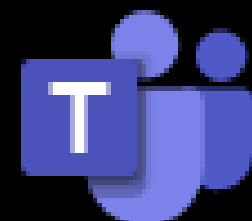
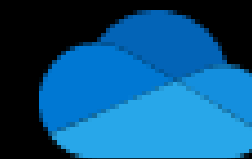
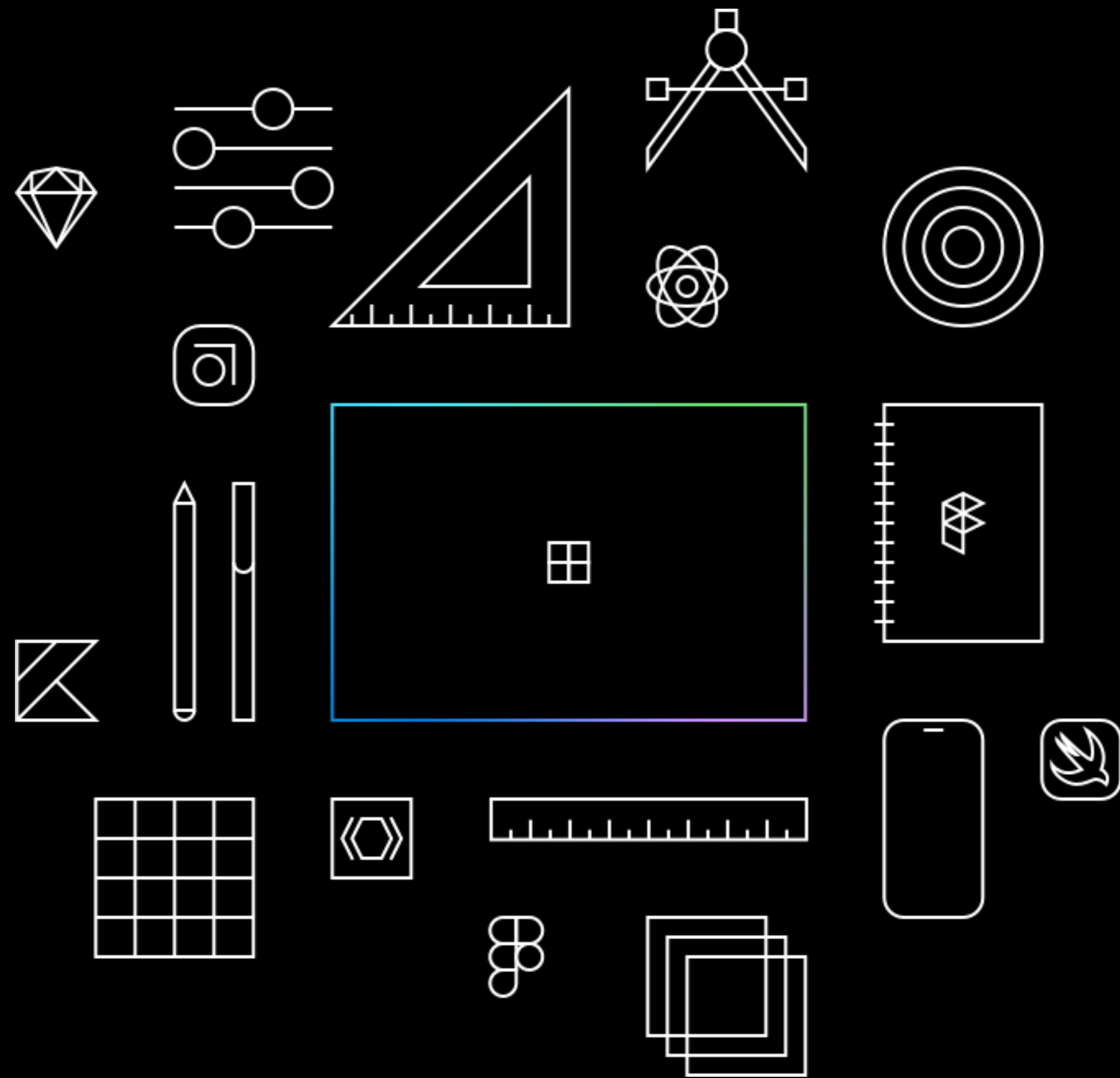
Developing client **add-ins**

Hard to start with web?

- If you don't have an opinion on which framework fits your needs best, start with stack we are already using in production:
 - TypeScript
 - ReactJS
 - Sass (Syntactically Awesome Style Sheets)
 - Webpack
 - Microsoft UI Fabric (Office Fabric)



Microsoft UI Fabric



+ many additional Microsoft sites and products

Follow best practices



Use Business Central add-in style guide



Be a good neighbor

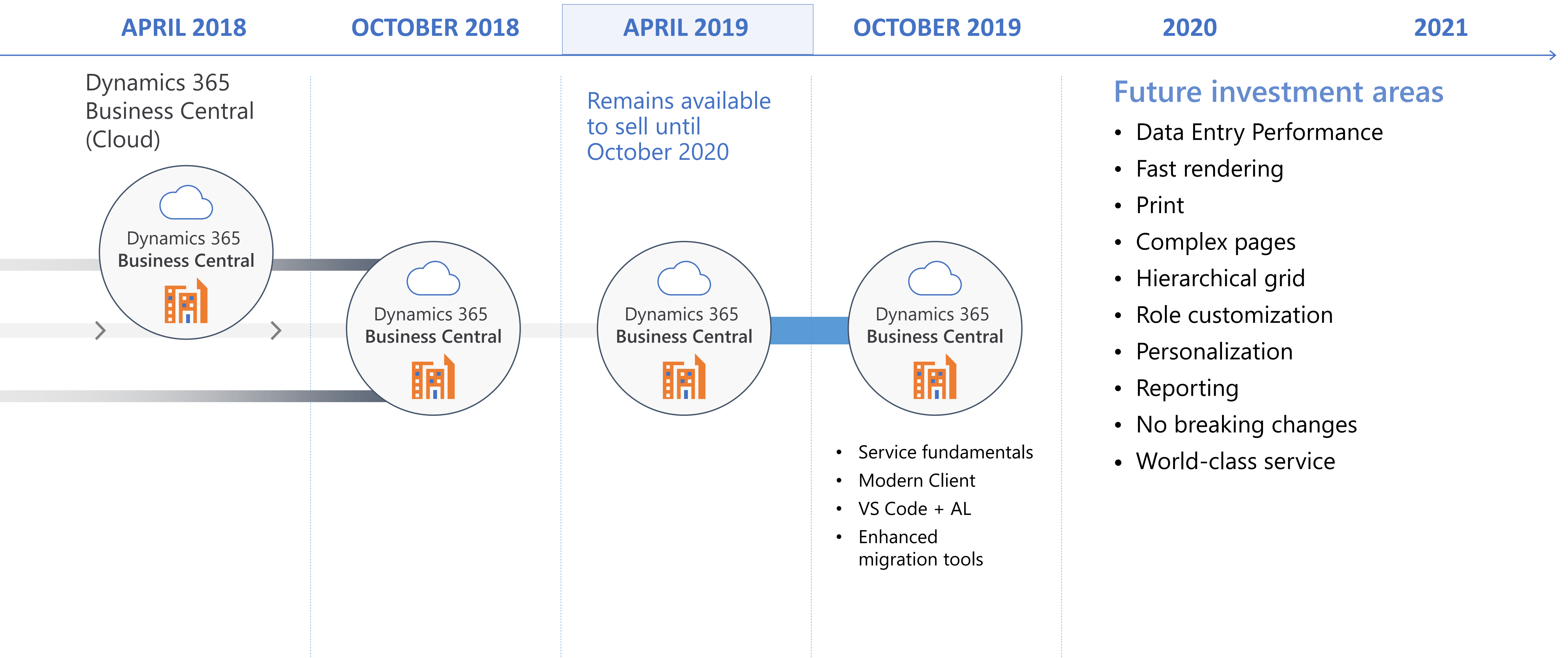


Provide minimum useful experience first, complexity when needed

Demo – web experiments

What's **next** for Modern Clients

Business Central Roadmap – Modern Clients



Sneak **peak** of what's coming

Find in Role Explorer

Dynamics 365 Business Central

CRONUS International Ltd. | Finance | Cash Management | Sales | Purchasing | Setup & Extensions

Customers Vendors Items Bank Accounts Chart of Accounts

HEADLINE

Want to learn more about Business Central?

ACTIONS

- + Sales Quote
- + Sales Order
- + Sales Invoice
- + Purchase Quote
- + Purchase Order
- + Purchase Invoice
- > New
- > Payments
- > Reports
- > Setup
- Excel Reports

Activities

Activities

INTELLIGENT CLOUD

Learn More

Intelligent Cloud Insights

SALES THIS MONTH

£89,246

> See more

OVERDUE SALES INVOICE AMOUNT

£168,282

> See more

OVERDUE PURCH. INVOICE AMOUNT

£81,873

> See more

ONGOING SALES

SALES QUOTES

0

>

SALES ORDERS

42

>

SALES INVOICES

1

>

ONGOING PURCHASES

PURCHASE ORDERS

21

>

ONGOING PURCH. INVOICES

0

>

PURCH. INVOI. NEXT WEEK

35

>

APPROVALS

REQUESTS TO APPROVE

0

>

PAYMENTS

UNPROCESSED

AVERAGE COL...

OUTSTANDING...

INCOMING DOCUMENTS

MY INCOMING

MY USER TASKS

PENDING USER

PRODUCT VIDEOS

Role Explorer is coming to your region

Already Available:

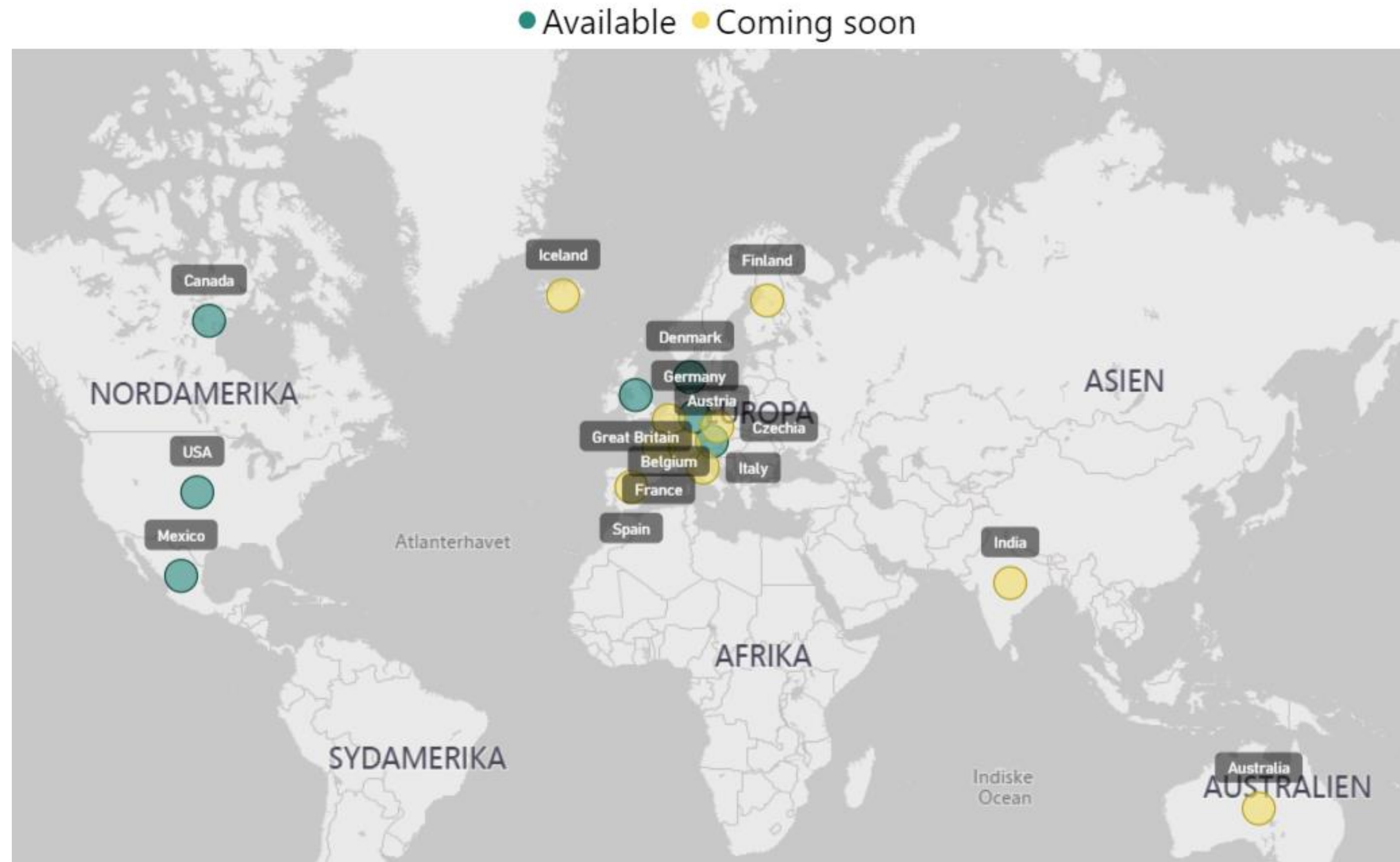
- US, CA, MX, GB, DE, AU, DK

Coming soon with minor updates:

- AT, BE, CH, CZ, ES, FI, FR, IS, IT

Coming Next:

- Remaining supported countries



Tree Views



Reminder: your work date is 1/28/2021

Use today | Change to... | Turn off reminder

No.	Name	Income/Balance	Account Type	Net Change	Balance
1000	BALANCE SHEET	Balance Sheet	Heading	-	-
1002	ASSETS	Balance Sheet	Begin-Total	3,514,658.95	3,514,658.95
1003	Fixed Assets	Balance Sheet	Begin-Total	1,128,689.52	1,128,689.52
1005	Tangible Fixed Assets	Balance Sheet	Begin-Total	1,128,689.52	1,128,689.52
1100	Land and Buildings	Balance Sheet	Begin-Total	953,007.95	953,007.95
1110	Land and Buildings	Balance Sheet	Posting	1,479,480.60	1,479,480.60
1120	Increases during the Year	Balance Sheet	Posting	147.73	147.73
1130	Decreases during the Year	Balance Sheet	Posting	-	-
1140	Accum. Depreciation, Buildings	Balance Sheet	Posting	-526,620.38	-526,620.38
1200	Operating Equipment	Balance Sheet	Begin-Total	99,811.44	99,811.44
1210	Operating Equipment	Balance Sheet	Posting	582,872.18	582,872.18
1220	Increases during the Year	Balance Sheet	Posting	25,116.00	25,116.00
1230	Decreases during the Year	Balance Sheet	Posting	-	-
1240	Accum. Depr., Oper. Equip.	Balance Sheet	Posting	-508,176.74	-508,176.74
1300	Vehicles	Balance Sheet	Begin-Total	75,870.13	75,870.13
1310	Vehicles	Balance Sheet	Posting	49,473.91	49,473.91
1320	Increases during the Year	Balance Sheet	Posting	87,000.00	87,000.00
1330	Decreases during the Year	Balance Sheet	Posting	-	-

Q&A

Any Questions?