

# Permissions and entitlements

**Agenda**

- Quick intro into Business Central access management
- Introducing new AL objects
  - PermissionsSet
  - PermissionSetExtension
  - Entitlement
- Upgrade considerations

**Effective Permissions | Work Date: 4/10/2021**

General  
 User: GUNTER  
 Company: CROWNUS USA, Inc.

Permissions

| Object Type | Object Name           | Read Permission | Insert Permission | Modify Permission | Delete Permission | Execute Permission | In User Def. Per-Set |
|-------------|-----------------------|-----------------|-------------------|-------------------|-------------------|--------------------|----------------------|
| Table Data  | Comment Line          | Yes             | Yes               | Yes               | Yes               |                    |                      |
| Table Data  | General Ledger Setup  | Yes             | Yes               | Yes               | Yes               |                    |                      |
| Table Data  | Item Vendor           | Yes             | Yes               | Yes               | Yes               |                    |                      |
| Table Data  | Sales Shipment Header | Yes             | Indirect          | Indirect          | Yes               |                    |                      |
| Table Data  | Sales Shipment Line   | Yes             | Indirect          | Indirect          | Indirect          |                    |                      |
| Table Data  | Sales Invoice Header  | Yes             | Indirect          | Indirect          | Yes               |                    |                      |
| Table Data  | Sales Invoice Line    | Yes             | Indirect          | Indirect          | Indirect          |                    |                      |
| Table Data  | Sales Cr Memo Header  | Yes             | Indirect          | Indirect          | Yes               |                    |                      |
| Table Data  | Sales Cr Memo Line    | Yes             | Indirect          | Indirect          | Indirect          |                    |                      |
| Table Data  | Purch. Rpt. Header    | Yes             | Yes               | Yes               | Yes               |                    |                      |
| Table Data  | Purch. Rpt. Line      | Yes             | Indirect          | Indirect          | Indirect          |                    |                      |
| Table Data  | Purch. Inv. Header    | Yes             | Indirect          | Indirect          | Yes               |                    |                      |
| Table Data  | Purch. Inv. Line      | Yes             | Indirect          | Indirect          | Indirect          |                    |                      |
| Table Data  | Purch. Cr Memo Hdr    | Yes             | Yes               | Yes               | Yes               |                    |                      |
| Table Data  | Purch. Cr Memo Line   | Yes             | Indirect          | Indirect          | Indirect          |                    |                      |
| Table Data  | Incoming Document     | Yes             | Yes               | Yes               | Yes               |                    |                      |


By Permission Set

| Permission Set | Source F | Type   | Read Permission | Insert Permission | Modify In |
|----------------|----------|--------|-----------------|-------------------|-----------|
| DIMS BUS PRL   | Normal   | System | Yes             | Indirect          | Indirect  |
| DIMS READ      | Normal   | System | Yes             |                   |           |
| DUSER          | Normal   | System | Yes             | Conflict          | Conflict  |
| Entitlement    | System   |        | Yes             | Indirect          | Indirect  |

Permissions


Entitlements

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**Entitlements**

- Defined by Microsoft
- Applied to users according to their license, role, group membership
- Cannot be changed by customers/partners
- Online only (on-prem deployments use FLF files)



**Permissions**


- Defaults defined by Microsoft or by ISV apps
- Defaults applied to users according to their license, role, group membership
- Can be edited and managed by administrators: customers and/or partners
- Work online and on-premises



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
|                     | Object Name | Read | Insert | Modify | Delete |
|---------------------|-------------|------|--------|--------|--------|
| <b>Entitlement</b>  | Sales Price | Yes  | No     | No     | Yes    |
| <b>Permission</b>   | Sales Price | Yes  | Yes    | No     | No     |
| <b>User access:</b> |             | Yes  | No     | No     | No     |

"Even if I am SUPER?"  
"Yes."




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## Entitlements by type

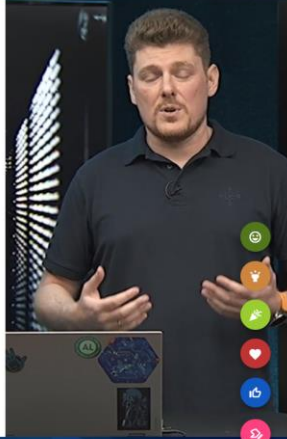


**Azure AD tenant**



**Business Central**

- User's Subscription License (SL)**
  - Essentials (CSP license)
  - Premium (CSP license)
  - Team Member (CSP license)
  - External Accountant (CSP license)
  - Business Central for IWs (non-CSP license, evaluation/trial)
- AAD group membership + subscription**
  - Dynamics 365 Business Central Device Users (Group)
  - Device (CSP license)
- AAD role**
  - Global admin (Role)
  - Dynamics 365 Administrator (Role)



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# Entitlements

```
1 Entitlement: "Dynamics 365 for Team Member (Initial)"
2
3 Type = PermissionSetCode
4 ID = "93a6393d-8d78-4b76-b08d-5f205076b8b7"
5 ObjectPermissions = "BankApp OBJECTS - Bank",
6 "DMS BASIC",
7 "DMS NEW CONSULTING",
8 "DMS NEW FIELDS",
9 "DMS READ",
10 "DMS TEAM MEMBER",
11 "DMS SECURITY"
```

```
1 Entitlement: "Dynamics 365 Administrator (BankApp)"
2
3 Type = Role
4 RoleType = Local
5 ID = "8439787-89d1-8a63-88af-f9787979f8a7"
6 ObjectPermissions = "BankApp OBJECTS - Bank",
7 "DMS BASIC",
8 "DMS NEW CONSULTING",
9 "DMS FULL ACCESS",
10 "DMS NEW FIELDS",
11 "DMS NEW CONSULTING",
12 "DMS READ",
13 "DMS SECURITY",
14 "BankApp - Setup - BankApp",
15 "DMS SECURITY"
```

Can only be used by Microsoft apps in 2021 release wave 1

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# Permissions

Permissions

The slide illustrates the distinction between system and user-defined components. On the left, a large cylinder is labeled 'System'. On the right, three smaller cylinders are stacked and labeled 'User-Defined'. Below the diagram is a table of components:

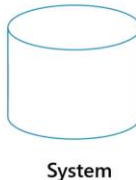
|                                  |                      |                                |              |
|----------------------------------|----------------------|--------------------------------|--------------|
| <input type="radio"/>            | D365 SALES DOC, EDIT | Dynamics 365 Create sales doc. | System       |
| <input type="radio"/>            | D365 SALES DOC, POST | Dynamics 365 Post sales doc.   | System       |
| <input checked="" type="radio"/> | D365 SETUP           | Dyn. 365 Company data setup    | System       |
| <input checked="" type="radio"/> | D365 SETUP COPY      | Dyn. 365 Company data setup    | User-Defined |
| <input type="radio"/>            | D365 SNAPSHOT DEBUG  | Snapshot Debug                 | System       |
| <input type="radio"/>            | D365 TEAM MEMBER     | Dynamics 365 Team Member       | System       |

The slide illustrates the distinction between system and user-defined components. On the left, a large cylinder is labeled 'System'. On the right, three smaller cylinders are stacked and labeled 'User-Defined'. Below the diagram is a table of various extensions:

|                      |                                |           |
|----------------------|--------------------------------|-----------|
| EMAIL - CURRENT USER | Email - Current User Connector | Extension |
| EMAIL - MICROSOFT 36 | Email - Microsoft 365 Connecto | Extension |
| EMAIL - OUTLOOK REST | Email - Outlook REST API       | Extension |
| EMAIL - SMTP CONNECT | Email - SMTP Connector         | Extension |
| ESSENTIALBUSINESSHEA | Essential Business Headlines   | Extension |
| IMAGE ANALYZER       | Image Analyzer                 | Extension |
| LATE PAYMENT PREDICT | Late payment prediction        | Extension |
| MICROSOFTUNIVERSALPR | MicrosoftUniversalPrintExtensi | Extension |
| PAYPALSTANDARD       | PayPalStandard Permissions     | Extension |
| PAYPALSTANDARDREAD   | PayPalStandard Read Permission | Extension |
| QBDATAMIGRATION      | QB Data Migration Permissions  | Extension |
| SALESANDINVENTORYFOR | Sales And Inventory Forecast   | Extension |
| SENDEMAILPRINTEXTE   | SendToEmailPrintExtension Perm | Extension |
| SIMPLIFIED BANK STAT | Simplified Bank Statement Impo | Extension |

In the previous version of Business Central

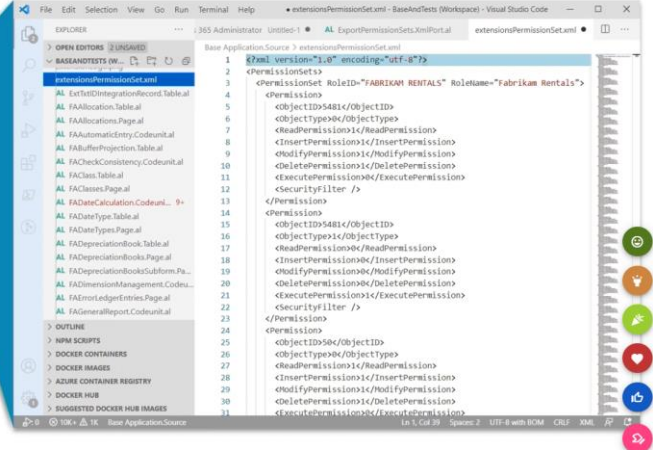

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```
SQLQueryLog - N...PEJdmrjch (63)
/***** Script for SelectTopRows command from SSRS *****/
[SELECT TOP (1000)
 [Role ID] [timestamp]
 [Name]
 [Hash]
 [SystemId]
 [SystemCreateDate]
 [SystemModifyDate]
 [SystemModifyDate]
 FROM [App7506].[dbo].[Permission Set]
]
100 %
Results
Messages
Streaming Role ID Name
1 0000000000000100 DMS ACC PAYABLE Dynamics 365 Accounts payable
2 0000000000000101 DMS ACC RECEIVABLE Dyn. 365 Accounts receivable
3 0000000000000102 DMS ACC PARTNERS Dynamics 365 Accounts
4 0000000000000103 DMS ACDS EDIT Dynamics 365 Create ACDS
5 0000000000000104 DMS ACDS VIEW Dynamics 365 View ACDS
6 0000000000000105 DMS ASSEMBLY EDIT Dynamics 365 Create assembly
7 0000000000000106 DMS ASSEMBLY SETUP Dynamics 365 Setup assembly
8 0000000000000107 DMS ASSEMBLY VIEW Dynamics 365 View assembly
9 0000000000000108 DMS AUTOMATION Dynamics 365 Automation
10 0000000000000109 DMS BACKUPRESTORE Backup or restore database
11 000000000000010A DMS BANKING Dynamics 365 Banking
12 000000000000010B DMS BASIC Dynamics 365 Base account
13 000000000000010C DMS BASIC DEV Dyn. 365 Basic Dev Act.
14 000000000000010D DMS BUS FULL ACCESS Dyn. 365 Full Business Acc.
15 000000000000010E DMS BUS PERMISM Dyn. 365 Perm. Bus Full Acc.
16 000000000000010F DMS CASH FLOW Dynamics 365 Cash Flow
```

```
SQLQueryLog - N...PEJdmrjch (64)
SQLQueryLog - N...PEJdmrjch (63)
[Object Type]
[Object ID]
[Read Permission]
[Insert Permission]
[Modify Permission]
[Execute Permission]
[Security Filter]
[SystemId]
[SystemCreateDate]
[SystemModifyDate]
[SystemModifyDate]
FROM [App7506].[dbo].[Permission]
100 %
Results
Messages
Streaming Role ID Object ID Object Type Read Permission Insert Permission Modify Permission Delete Permission Execute Permission
1 000000000000010A 0 DMS ACC PAYABLE 0 1 0 0 0 0
2 000000000000010B 4 DMS ACC PAYABLE 0 0 1 0 0 0
3 000000000000010C 17 DMS ACC PAYABLE 0 1 0 0 0 0
4 0000000000000104 19 DMS ACC PAYABLE 0 0 0 0 0 0
5 0000000000000107 21 DMS ACC PAYABLE 0 2 2 2 2 0
6 0000000000000108 23 DMS ACC PAYABLE 0 1 0 1 1 0
7 000000000000010A 24 DMS ACC PAYABLE 0 1 1 1 1 0
8 000000000000010B 25 DMS ACC PAYABLE 0 2 1 2 2 0
9 0000000000000109 32 DMS ACC PAYABLE 0 1 2 2 2 0
10 000000000000010A 36 DMS ACC PAYABLE 0 2 1 2 1 0
11 000000000000010C 37 DMS ACC PAYABLE 0 1 1 1 1 0
12 000000000000010D 38 DMS ACC PAYABLE 0 1 1 1 1 0
13 000000000000010E 38 DMS ACC PAYABLE 0 1 1 1 1 0
```

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```
Base Application.Source > extensions\PermissionSet.xml
1 <?xml version="1.0" encoding="utf-8" ?>
2 <Permissions>
3 <PermissionSet RoleID="FABRIKAM RENTALS" RoleName="Fabrikam Rentals">
4 <Permission>
5 <ObjectID>5481c/ObjectType
6 <ObjectType>9b/ObjectType
7 <ReadPermission>1/ReadPermission
8 <InsertPermission>1/InsertPermission
9 <ModifyPermissions>1/ModifyPermissions
10 <DeletePermissions>1/DeletePermissions
11 <ExecutePermissions>1/ExecutePermissions
12 <SecurityFilter />
13 </Permission>
14 </Permissions>
15 <Permission>
16 <ObjectID>5481c/ObjectType
17 <ObjectType>9b/ObjectType
18 <ReadPermission>0/ReadPermissions
19 <InsertPermissions>0/InsertPermissions
20 <ModifyPermissions>0/ModifyPermissions
21 <DeletePermissions>0/DeletePermissions
22 <SecurityFilter />
23 </Permission>
24 </Permissions>
25 <Permission>
26 <ObjectID>9b/ObjectType
27 <ObjectType>9b/ObjectType
28 <ReadPermissions>1/ReadPermissions
29 <InsertPermissions>1/InsertPermissions
30 <ModifyPermissions>1/ModifyPermissions
31 <DeletePermissions>1/DeletePermissions
32 <ExecutePermissions>1/ExecutePermissions
```

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Enter AL objects!

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```

1 permissionset 7862 "D365 ACC. RECEIVABLE" Untitled-1
2 {
3     Access = Public;
4     Assignable = true;
5     Caption = 'Dyn. 365 Accounts receivable';
6     IncludedPermissionSets = "teehook - Edit";
7
8     Permissions = tabledata "Analysis View" = rwd,
9                 tabledata "Analysis View Entry" = rwd,
10                tabledata "Analysis View Filter" = r,
11                tabledata "Applied Payment Entry" = RWD,
12                tabledata "Approval workflow MZand" = RWD,
13                tabledata "Avg. Cost Adjct. Entry Point" = RWD,
14                tabledata "Bank Acc. Reconciliation" = RWD,
15                tabledata "Bank Acc. Reconciliation Line" = RWD,
16                tabledata "Bank Account" = RW,
17                tabledata "Bank Account Ledger Entry" = Rwd,
18                tabledata "Bank Account Posting Group" = R,
19                tabledata "Bank Account Statement" = Rwd,
20                tabledata "Bank Account Statement Line" = Rwd,
21                tabledata "Bank Pmt. Appl. Rule" = RWD,
22                tabledata "Bank Pmt. Appl. Settings" = RWD,
23                tabledata "Batch Processing Parameter" = Rwd,
24                tabledata "Batch Processing Session Map" = Rwd,
25                tabledata Bin = R,
26                tabledata "Cancelled Document" = Rwd,
27                tabledata "Check Ledger Entry" = Rwd,
28                tabledata "Close Opportunity Code" = R,
29                tabledata "Contact Business Relation" = R,
30                tabledata "Credit Transfer Entry" = Rwd,
31                tabledata "Crm Post Buffer" = RWD,
32
33 }
  
```

- Much more readable (over XML)
- Object names & type vs. object ID and type ID
- Search
- Traceability
- Compare, merge, review, comment, share
- Navigation
- Tooltips
- IntelliSense
- Compilation errors
- Hotfixing

https://events1.social27.com/msdyn365blaunchevent2021w1/agenda/player/95499

## PermissionSet AL object

```

PermissionSet 8900 "Email - Read"
{
    Access = Internal;
    Assignable = false;

    IncludedPermissionSets = "Retention Policy - View",
        "Upgrade Tags - View";

    Permissions = tabledata "Email Account" = R, // needed to be able
to search for Email Accounts page
        tabledata "Email Account Scenario" = R, // needed to
be able to search for Email Scenario Setup page
        tabledata "Email Connector Logo" = r,
        tabledata "Email Error" = r,
        tabledata "Email Outbox" = r,
        tabledata "Sent Email" = r,
        tabledata "Email Message" = r,
        tabledata "Email Message Attachment" = r,
        ...
}
  
```

```

permissionset 1044 "D365 READ"
{
    Access = Public;
    Assignable = true;
    Caption = 'Dyn. 365 Read access all';

    IncludedPermissionSets = "BaseApp Objects - Exec",
        "System App - Basic";

    Permissions = system "Tools, Security, Roles" = X,
        tabledata "Aggregate Permission Set" = R,
        tabledata "AllObjWithCaption" = R,
        tabledata "Code Coverage" = R,
        tabledata "Data Sensitivity" = R,
        tabledata "Designed Query" = R,
        tabledata "Designed Query Caption" = R,
        ...
}
  
```

https://events1.social27.com/msdyn365bclaunchevent2021w1/agenda/player/95499

## PermissionSet AL object

```

PermissionSet 8900 "Email - Read"
{
  Access = Internal;
  Assignable = false;

  IncludedPermissionSets = "Retention Policy - View",
    "Upgrade Tags - View";

  Permissions = tabledata "Email Account" = R, // needed to be able
to search for Email Accounts page
  tabledata "Email Account Scenario" = R, // needed to
be able to search for Email Scenario Setup page
  tabledata "Email Connector Logo" = r,
  tabledata "Email Error" = r,
  tabledata "Email Outbox" = r,
  tabledata "Sent Email" = r,
  tabledata "Email Message" = r,
  tabledata "Email Message Attachment" = r,
  ...
}

```

```

permissionset 1044 "D365 READ"
{
  Access = Public;
  Assignable = true;
  Caption = 'Dyn. 365 Read access all';

  IncludedPermissionSets = "BaseApp Objects - Exec",
    "System App - Basic";

  Permissions = system "Tools, Security, Roles" = X,
  tabledata "Aggregate Permission Set" = R,
  tabledata AllObjWithCaption = R,
  tabledata "Code Coverage" = R,
  tabledata "Data Sensitivity" = R,
  tabledata "Designed Query" = R,
  tabledata "Designed Query Caption" = R,
  ...
}

```

### Assignable Property

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## PermissionSet AL object

```

permissionset 9977 "D365 SALES DOC, POST"
{
  Access = Public;
  Assignable = true;
  Caption = "Dynamics 365 Post sales doc.";

  IncludedPermissionSets = "Webhook - Edit";

  Permissions = tabledata "Analysis View" = rimd,
  tabledata "Analysis View Entry" = rim,
  tabledata "Analysis View Filter" = r,
  tabledata "Approval Workflow Wizard" = RIMD,
  ...
}

```

```

permissionset 2118 "General Ledger Journals - Post"
{
  Access = Public;
  Assignable = false;
  Caption = 'Post G/L journals';

  Permissions = tabledata "Acc. Sched. KPI Web Srv. Line" = RIMD,
  tabledata "Acc. Sched. KPI Web Srv. Setup" = RIMD,
  tabledata "Accounting Period" = r,
  tabledata "Analysis View" = rimd,
  ...
}

```

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## PermissionSetExtension AL object

```

permissionsetextension 8697 "D365 BUS FULL ACCESS - ELSTER VAT Localization for Germany" extends "D365 BUS FULL ACCESS"
{
  Permissions = tabledata "Elec. VAT Decl. Setup" = RIMD,
  tabledata "Sales VAT Advance Notif." = RIMD;
}

```

```

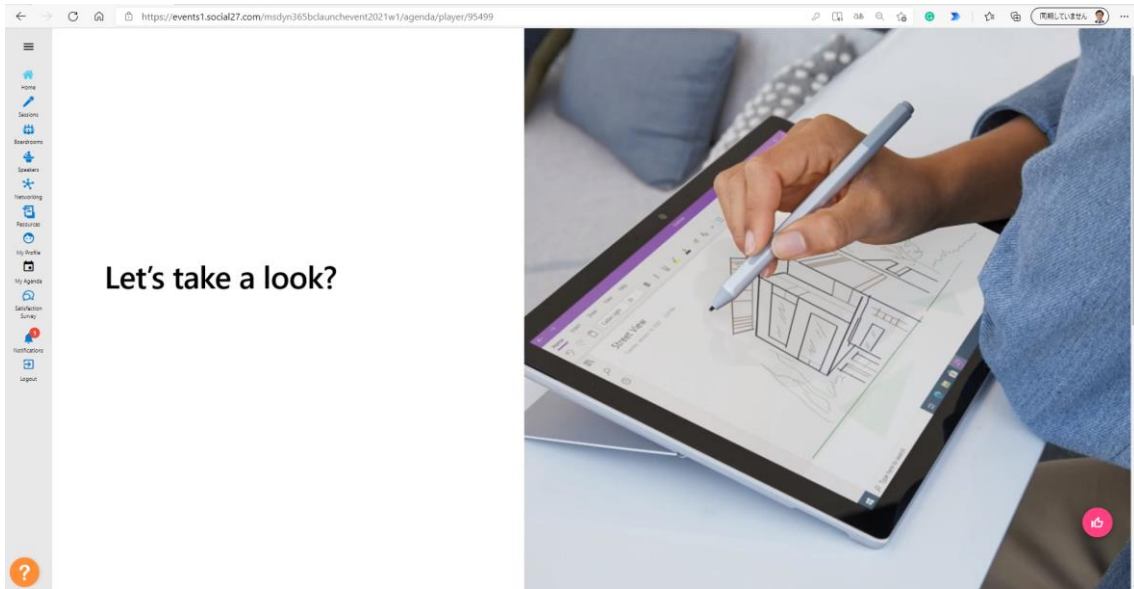
permissionsetextension 16295 "D365 BUS PREMIUM - ELSTER VAT Localization for Germany" extends "D365 BUS PREMIUM"
{
  Permissions = tabledata "Elec. VAT Decl. Setup" = RIMD,
  tabledata "Sales VAT Advance Notif." = RIMD;
}

```

```

permissionsetextension 9722 "D365 BUS PREMIUM - OIOUBL" extends "D365 BUS PREMIUM"
{
  Permissions = tabledata "OIOUBL-Profile" = RIMD;
}

```



## Permission Sets: Extension Name

Permission Sets | Work Date: 4/12/2021

| Permission Set ↑    | Name                          | Type ↑       | Extension Name                          |
|---------------------|-------------------------------|--------------|---|
| D365 ACC PAYABL...  | Dynamics 365 Accounts p...    | User-Defined |   |
| D365 BANKING CPY    | Dynamics 365 Banking          | User-Defined |   |
| AMCBANKING365...    | AmcBanking365Fundame...       | Extension    | AMC Banking 365 Fundamentals            |
| C5 2012 DATA MIG... | C5 2012 Data Migration        | Extension    | C5 2012 Data Migration                  |
| COMPANYHUB          | Company Hub Permissions       | Extension    | Company Hub                             |
| EMAIL - CURRENT ... | Email - Current User Conn...  | Extension    | Email - Current User Connector          |
| EMAIL - MICROSO...  | Email - Microsoft 365 Con...  | Extension    | Email - Microsoft 365 Connector         |
| EMAIL - OUTLOOK...  | Email - Outlook REST API      | Extension    | Email - Outlook REST API                |
| EMAIL - SMTP CO...  | Email - SMTP Connector        | Extension    | Email - SMTP Connector                  |
| ESSENTIALBUSINE...  | Essential Business Headlin... | Extension    | Essential Business Headlines            |
| LATE PAYMENT PR...  | Late payment prediction       | Extension    | Late Payment Prediction                 |
| MICROSOFTUNIVE...   | MicrosoftUniversalPrintExt... | Extension    | Universal Print Integration (Preview)   |
| OIOUBL              | OIOUBL                        | Extension    | OIOUBL                                  |
| PAYMENT AND RE...   | Payment and Reconciliatio...  | Extension    | Payment and Reconciliation Formats (DK) |
| PAYPALSTANDARD      | PayPalStandard Permissions    | Extension    | PayPal Payments Standard                |
| PAYPALSTANDARD...   | PayPalStandard Read Per...    | Extension    | PayPal Payments Standard                |
| SALESANDINVENT...   | Sales And Inventory Forec...  | Extension    | Sales and Inventory Forecast            |
| SENDTOEMAILPRI...   | SendToEmailPrintExtensio...   | Extension    | Send To Email Printer                   |
| SIMPLIFIED BANK ... | Simplified Bank Statement...  | Extension    | Simplified Bank Statement Import        |
| VAT GROUP API U...  | VAT Group API User            | Extension    | VAT Group Management                    |
| VAT GROUP API DE... | VAT Group Management          | Extension    | VAT Group Management                    |

**System Permissions**

| Object Type ↑                           | Object ID ↑ | Object Name |
|---|-------------|-------------|
| (There is nothing to show in this view) |             |             |

**Custom Permissions**

| Object Type ↑ | Object ID ↑ | Object Name   |
|---------------|-------------|---------------|
| Table Data    | 4700        | VAT Group App |
| Table Data    | 4701        | VAT Group Mer |
| Table Data    | 4702        | VAT Group Sub |
| Table Data    | 4703        | VAT Group Sub |



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Dynamics 365 Business Central Wave1Preview

User Card | Work Date: 4/12/2021

Monica G.

Web Service Access Key is being deprecated on SaaS. Please use OAuth. Don't show me again | Show more

Effective Permissions | More options

User Group Memberships | Manage

| Code 1              | Name                         | Company Name 1     |
|---------------------|------------------------------|--------------------|
| D365 BUS PREMIUM    | D365 Premium Business-adgang | CRONUS Danmark A/S |
| EXCEL EXPORT ACTION | D365 Excel-eksporthandling   | CRONUS Danmark A/S |

User Permission Sets | Manage

| Permission Set | Description        | Company 1         | Extension Name     | Permission Scope |
|----------------|--------------------|-------------------|--------------------|------------------|
| D365 BUS PR... | Dyn. 365 Prem...   | CRONUS Danmark... | Base Application   | System           |
| EXCEL EXPOR... | D365 Excel Expo... | CRONUS Danmark... | System Application | System           |

Extension Name  
Specifies the name of the extension.  
Learn more

Notes +  
(There is nothing to show in this view)

Links +  
(There is nothing to show in this view)


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## Data or code?

**CustomSettings.config** includes a setting that allows on-premises administrators to decide whether they want to continue using the permissions defined as data or as AL objects:

*UsePermissionSetsFromExtensions: 'true'*

Default = "true" online and on-premises.  
Extensions can use new AL objects (recommended) or XML files.



# Convert permissions into AL objects

```

SQLQueryLog - N: [Permissions] (3)
***** Script For SelectTopRows Command From SPTS *****
SELECT TOP (1000) [timestamp]
, [Role ID]
, [Name]
, [Hash]
, [SystemId]
, [SystemCreatedAt]
, [SystemCreatedBy]
, [SystemModifiedAt]
FROM [App17995] [tbl] [Permission Set]

```

| Timestamp         | Role ID               | Name                          | Hash   |
|-------------------|-----------------------|-------------------------------|--|
| 0d000000000000160 | D365 ACC. PAYABLE     | Dynamics 365 Accounts payable | 84420504AC308D917848E03400B143M44F3827E79E103.     |
| 0d000000000000161 | D365 ACC. RECEIVABLE  | Dyn. 365 Accounts receivable  | 85148E795C409849C4242D98A4A8C49713388E5027C1.      |
| 0d000000000000162 | D365 ACCOUNTS PAYABLE | Dynamics 365 Accounts payable | 414C27708C28E896E1448E03400B143M44F3827E79E103.    |
| 0d000000000000163 | D365 ACCS. EDIT       | Dynamics 365 Create ACDS      | 05045F1709E724E2C48A989632E0C0412E100748457A0F.    |
| 0d000000000000164 | D365 ACCS. VIEW       | Dynamics 365 View ACDS        | C94573919F3C0F148C1054589E70281C088F292F0208.      |
| 0d000000000000165 | D365 ASSEMBLY. EDIT   | Dynamics 365 Create assembly  | 888027809E84947704770F78E94F08088F81181865.        |
| 0d000000000000166 | D365 ASSEMBLY. SETUP  | Dynamics 365 Setup assembly   | 02C84E49C0A0A7201030E77208E6C4C036A0C77020F25.     |
| 0d000000000000167 | D365 ASSEMBLY. VIEW   | Dynamics 365 View assembly    | 080758477848E44050A97020E8E8071C3E0084118178A.     |
| 0d000000000000168 | D365 AUTOMATION       | Dynamics 365 Automation       | E0116AF5847987796E8F78E0C0045F8E300F85A0A6A6.      |
| 0d000000000000169 | D365 BACKUP/RESTORE   | Backup or restore database    | 2001F304E12A454E0260791C1ACT79F040E8E4A602084.     |
| 0d000000000000170 | D365 BARRAGE          | Dynamics 365 Barrage          | C40F7480E87E0C765E0C748D79E0E0484608705188.        |
| 0d000000000000171 | D365 BASIC            | Dynamics 365 Basic access     | 88F455728102740317E33088E8C0C0A84F19F29A7E31CF.    |
| 0d000000000000172 | D365 BARRAGE          | Dyn. 365 Basic Arr.           | 820F748E8E84789A87F02E30808E8C0C0A84F19F29A7E31CF. |
| 0d000000000000173 | D365 BI. FULL ACCESS  | Dyn. 365 Full Business Arr.   | C04271788F02E74848E09F47E0F030F8E8E8E431F93AD.     |
| 0d000000000000174 | D365 BI. PREVIEW      | Dyn. 365 Full Bus. Full Acc.  | 02080505098478C030E8C0C0F0208413C2E7848221.        |
| 0d000000000000175 | D365 BI. FULL ACCESS  | Dyn. 365 Full Business Arr.   | C04271788F02E74848E09F47E0F030F8E8E8E431F93AD.     |
| 0d000000000000176 | D365 CASH FLOW        | Dynamics 365 Cash Flow        | 8F8E0462870F92488E81858E020F79F8F1E54704C.         |

```

permissionset 1044 "D365 READ"
{
    Access = Public;
    Assignable = true;
    Caption = 'Dyn. 365 Read access all';

    IncludePermissionSets = "BaseApp Objects - Exec",
        "System App - Basic";

    Permissions = system "Tools, Security, Roles" = X,
        tabledata "Aggregate Permission Set" = R,
        tabledata "AllObjWithCaption" = R,
        tabledata "Code Coverage" = R,
        tabledata "Data Sensitivity" = R,
        tabledata "Designed Query" = R,
        tabledata "Designed Query Caption" = R,
    --
}

```

<https://github.com/microsoft/BCTech/blob/master/samples/PermissionSetConversion/Convert-PermissionSets.psm1>

# Convert permissions into AL objects

```

SQLQueryLog - N: [Permissions] (3)
***** Script For SelectTopRows Command From SPTS *****
SELECT TOP (1000) [timestamp]
, [Role ID]
, [Name]
, [Hash]
, [SystemId]
, [SystemCreatedAt]
, [SystemCreatedBy]
, [SystemModifiedAt]
FROM [App17995] [tbl] [Permission Set]

```

| Timestamp         | Role ID               | Name                          | Hash   |
|-------------------|-----------------------|-------------------------------|--|
| 0d000000000000160 | D365 ACC. PAYABLE     | Dynamics 365 Accounts payable | 84420504AC308D917848E03400B143M44F3827E79E103.     |
| 0d000000000000161 | D365 ACC. RECEIVABLE  | Dyn. 365 Accounts receivable  | 85148E795C409849C4242D98A4A8C49713388E5027C1.      |
| 0d000000000000162 | D365 ACCOUNTS PAYABLE | Dynamics 365 Accounts payable | 414C27708C28E896E1448E03400B143M44F3827E79E103.    |
| 0d000000000000163 | D365 ACCS. EDIT       | Dynamics 365 Create ACDS      | 05045F1709E724E2C48A989632E0C0412E100748457A0F.    |
| 0d000000000000164 | D365 ACCS. VIEW       | Dynamics 365 View ACDS        | C94573919F3C0F148C1054589E70281C088F292F0208.      |
| 0d000000000000165 | D365 ASSEMBLY. EDIT   | Dynamics 365 Create assembly  | 888027809E84947704770F78E94F08088F81181865.        |
| 0d000000000000166 | D365 ASSEMBLY. SETUP  | Dynamics 365 Setup assembly   | 02C84E49C0A0A7201030E77208E6C4C036A0C77020F25.     |
| 0d000000000000167 | D365 ASSEMBLY. VIEW   | Dynamics 365 View assembly    | 080758477848E44050A97020E8E8071C3E0084118178A.     |
| 0d000000000000168 | D365 AUTOMATION       | Dynamics 365 Automation       | E0116AF5847987796E8F78E0C0045F8E300F85A0A6A6.      |
| 0d000000000000169 | D365 BACKUP/RESTORE   | Backup or restore database    | 2001F304E12A454E0260791C1ACT79F040E8E4A602084.     |
| 0d000000000000170 | D365 BARRAGE          | Dynamics 365 Barrage          | C40F7480E87E0C765E0C748D79E0E0484608705188.        |
| 0d000000000000171 | D365 BASIC            | Dynamics 365 Basic access     | 88F455728102740317E33088E8C0C0A84F19F29A7E31CF.    |
| 0d000000000000172 | D365 BARRAGE          | Dyn. 365 Basic Arr.           | 820F748E8E84789A87F02E30808E8C0C0A84F19F29A7E31CF. |
| 0d000000000000173 | D365 BI. FULL ACCESS  | Dyn. 365 Full Business Arr.   | C04271788F02E74848E09F47E0F030F8E8E8E431F93AD.     |
| 0d000000000000174 | D365 BI. PREVIEW      | Dyn. 365 Full Bus. Full Acc.  | 02080505098478C030E8C0C0F0208413C2E7848221.        |
| 0d000000000000175 | D365 BI. FULL ACCESS  | Dyn. 365 Full Business Arr.   | C04271788F02E74848E09F47E0F030F8E8E8E431F93AD.     |
| 0d000000000000176 | D365 CASH FLOW        | Dynamics 365 Cash Flow        | 8F8E0462870F92488E81858E020F79F8F1E54704C.         |

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```

Exec",
";
s" = X,
n Set" = R,
,
= R,
},
tion" = R,

```

<https://github.com/microsoft/BCTech/blob/master/samples/PermissionSetConversion/Convert-PermissionSets.psm1>

# Export permissions in XML format

The screenshot shows the 'Permission Sets' page in Dynamics 365 Business Central. The main table lists various permission sets, including 'D365 BUS FULL A.', 'D365 BUS FULL B.', and 'D365 BUS FULL C.'. A blue arrow points from this interface to a sample XML export of permissions.

```

<?xml version="1.0" encoding="utf-8" standalone="yes" type="text/xml">
<Permissions xmlns="http://schemas.microsoft.com/PowerApps/2016/10/permissions" RootSystem="System" RootSystemName="Dynamics 365 View customers" RootID="0365 CUSTOMER_VIEW AppID="4370846-84F-417A-9630-ED3846C0972">
  <Permission>
    <ObjectType>Table Data</ObjectType>
    <ObjectID>19</ObjectID>
    <ReadPermission>Yes</ReadPermission>
  </Permission>
  <Permission>
    <ObjectType>Table Data</ObjectType>
    <ObjectID>23</ObjectID>
    <ReadPermission>Yes</ReadPermission>
  </Permission>
  <Permission>
    <ObjectType>Table Data</ObjectType>
    <ObjectID>287</ObjectID>
    <ReadPermission>Yes</ReadPermission>
  </Permission>
  <Permission>
    <ObjectType>Table Data</ObjectType>
    <ObjectID>300</ObjectID>
    <ReadPermission>Yes</ReadPermission>
  </Permission>
  <Permission>
    <ObjectType>Table Data</ObjectType>
    <ObjectID>363</ObjectID>
    <ReadPermission>Yes</ReadPermission>
  </Permission>
</Permissions>

```

# Seems like we're finally on the right path!

The screenshot shows the 'Permissions' page in Dynamics 365 Business Central. The left sidebar shows a tree view with 'Permissions' expanded. The main area shows a table of permissions with columns for Name, Last change, and Comments. A video inset on the right shows a presenter speaking.

| Name                                | Last change | Comments                 |
|-------------------------------------|-------------|--------------------------|
| ChPerm                              | Friday      | c14a979f Merged PR 82170 |
| BaseAppObjectsExec.PermissionSet.al | Mar 2       | 2319d8d7 Merged PR 80149 |
| d365accountants.permissionset.al    | Friday      | c14a979f Merged PR 82170 |
| d365accpayable.permissionset.al     | Friday      | c14a979f Merged PR 82170 |
| d365accreceivable.permissionset.al  | Friday      | c14a979f Merged PR 82170 |
| d365adcredit.permissionset.al       | Feb 19      | 2937c464 Merged PR 78948 |
| d365adcredit.permissionset.al       | Feb 19      | 2937c464 Merged PR 78948 |
| d365adcredit.permissionset.al       | Feb 19      | 2937c464 Merged PR 78948 |
| d365adcredit.permissionset.al       | Feb 19      | 2937c464 Merged PR 78948 |
| d365adcredit.permissionset.al       | Feb 18      | 28c0584c Merged PR 78569 |
| d365adcredit.permissionset.al       | Friday      | c14a979f Merged PR 82170 |