

Enriching Excel for Central Control



- Excel is an excellent tool and rich in user-driven functionality, but it lacks centralized management and control of its content
- Provisioning permissions to its content sections and VBA modules is internal to the Excel file and detached from corporate controls infrastructure
- This is the most common reason that drives the corporate world to limit use of a tool otherwise widely loved by most users and spend money on in-house grown or purchased systems
- We enriched Excel with functionality to create centralized shared repository for its content and invoke independent, centrally managed granular controls of its inner parts

Making it an Integral Part of Excel



The screenshot displays the Microsoft Excel interface with the 'DATA' ribbon selected. The 'Repository settings' dialog box is open, showing a list of repository configurations. The 'Create Excel repository' dialog box is also open, showing a list of repository types. A purple arrow points to the 'DATA' ribbon, and another purple arrow points to the 'Create repository' button in the 'Repository settings' dialog box. A third purple arrow points to the 'OneDrive cloud storage' option in the 'Create Excel repository' dialog box.

Repository settings

Excel repository settings

Use content from repository only

Repository "New repository settings - 5" is active. Export content operations are used settings of the active repository.

+ Add - Remove Move up Move down Create repository Import content Export content Access permissions

| Active | Repository name | Connection string | Hidden |
|-------------------------------------|--------------------------|--|-------------------------------------|
| <input type="checkbox"/> | Local XML repo | Connection Type=Local file;Path=M:\Pri\Binata\BusinessProcess\sample.xml | <input type="checkbox"/> |
| <input type="checkbox"/> | FTP repo | | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | HTTP (WebDav) repo | | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | SharePoint repo | | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | New repository settin... | Connection Type=Local file;Path=M:\Pri\DataGovern\Present2020-02-20\pmic_Repository\DataGovern.xml | <input type="checkbox"/> |

Create Excel repository

Please, choose repository type:

- XML-file located in OneDrive cloud storage
- MS SQL database
- Local XML-file
- XML-file located on FTP server
- XML-file located on HTTP server
- XML-file located on SharePoint server
- XML-file located in OneDrive cloud storage
- XML-file located in Google Drive cloud storage
- XML-file located in Azure File cloud storage

Client secret: _____

Redirect URI: _____

Scope: _____

XML file location

File path: _____

Centralized Permissions Control



Repository settings

Excel repository settings

Use content from repository only

Repository "New repository settings - 5" is active. Export/Import content operations are used settings of the active repository.

+ Add - Remove Move up Move down Create repository Import content Export content Access permissions

| Active | Repository name | Connection string | Hidden |
|-------------------------------------|--------------------------|---|-------------------------------------|
| <input type="checkbox"/> | Local XML repo | Connection Type=Local file;Path=M:\Prj\Binata\BusinessProcess\sample.xml | <input type="checkbox"/> |
| <input type="checkbox"/> | FTP repo | | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | HTTP (WebDav) repo | | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | SharePoint repo | | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | New repository settin... | Connection Type=Local file;Path=M:\Prj\DataGovern\Present2020-02-20\pmic_RepositoryDataGovern.xml | <input type="checkbox"/> |

Help Apply OK Cancel

Workbook : [OPsProcflow_v01]

Permissions

Repository content

- OPsProcflow_v01
 - OPsPrFI (Control)
 - 'OPsPrFI (Control)'!A1:A5
 - 'OPsPrFI (Control)'!B1:B5
 - 'OPsPrFI (Control)'!C1:C5
 - 'OPsPrFI (Control)'!D1:D5
 - 'OPsPrFI (Control)'!E1:E5
 - 'OPsPrFI (Control)'!F1:F5
 - '!G1:G5
 - '!H1:H5
 - '!I1:I5
 - '!J1:J5
 - '!K1:K5
 - '!L1:L5
 - '!M1:M5
 - '!N1:N5
 - '!O1:O5
 - '!P1:P5
 - '!Q1:Q5
 - '!R1:R5
 - '!S1:S5
 - '!T1:T5
 - '!U1:U5
 - '!V1:V5
 - '!W1:W5
 - '!X1:X5
 - '!Y1:Y5
 - '!Z1:Z5
 - '!AA1:AA5
 - '!AB1:AB5
 - '!A1:A11
 - '!B1:B11
 - '!C1:C11
 - '!D1:D11

User permissions

Permission rule [02/19/20 19:58:22]

User names: all

User groups: all

Rule type: Deny Allow

Deny read Deny modify Deny delete

Permission rule [03/09/20 11:17:17]

User names: jsmith@abcd.org

User groups:

Rule type: Deny Allow

Allow read Allow modify Allow delete

Permission rule [03/09/20 11:18:05]

User names:

User groups: finance@abcd.org

Rule type: Deny Allow

Allow read Allow modify Allow delete

Select all Deselect all + Add - Remove

OK Cancel

Getting Centralized Content



The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. A pink arrow points to the 'Data' tab. The 'Repository settings' dialog is open, showing a table of repository configurations. A pink arrow points to the 'Import content' button. The 'Please, choose your Excel content' dialog is also open, displaying a table of Excel data containers. A pink arrow points to the 'Employee Name' entry in this table. Below the table, the details for the selected entry are shown.

Repository settings dialog:

Excel repository settings

Use content from repository only

Repository "New repository settings - 5" is active. Export/Import content operations are used settings of the active repository.

Buttons: Add, Remove, Move up, Move down, Create repository, Import content, Export content, Access permissions

| Active | Repository name | Connection string | Hidden |
|-------------------------------------|--------------------------|---|-------------------------------------|
| <input type="checkbox"/> | Local XML repo | Connection Type=Local file;Path=M:\Prt\Binata\BusinessProcess\sample.xml | <input type="checkbox"/> |
| <input type="checkbox"/> | FTP repo | | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | HTTP (WebDav) repo | | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | SharePoint repo | | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | New repository settin... | Connection Type=Local file;Path=M:\Prt\DataGovern\Present2020-02-20\pmic_RepositoryDataGovern.xml | <input type="checkbox"/> |

Please, choose your Excel content dialog:

The list contains Excel data containers that are stored in the repository to which you are currently connected. You can choose one of the proposed or create a new one. Selected item will be used as data source for communication between repository and Excel

Buttons: Create new, Save, Remove, Unlock, Refresh, Permissions

| ID | Name | Description | Lock status | Last changed | Created |
|------------------|---------------|-------------|---------------------|--------------------|--------------------|
| 60DD69397FA64... | Employee Name | | Unlocked for upd... | 2020-02-24 11:3... | 2020-02-24 11:3... |
| B4C40347E3894... | Monthly Tera | | Unlocked for upd... | 2020-02-24 11:3... | 2020-02-24 11:3... |

Details:

ID : 60DD69397FA6435EA39748728DBACF23

Name : Employee Name

Description :

Current lock status: unlocked for update

Becoming Compliant



All privileged information related to connection to repository and access to a file are encrypt within Excel file

The content of the repository and all files stored within are encrypt

Integration with corporate domain / network and database-defined users and groups

All permissions are defined and managed centrally in the repository for each of the stored Excel file content sections and modules

Repository can be located on a network shared drive, SharePoint, Database, FTP or HTML server and various Cloud technology