

### **EUKLEIA SECURITY TOOLS · EST**



## Agenda

- 1. Presentation
- 2. Basic Features
- 3. Advanced Features
- 4. Licensing
- 5. RoadMap





# Presentation



## Who we are?

EUKLEIA is an IT consulting company specializing in ERP (SAP and Microsoft), providing end-toend services

Our mission is to support organizations in managing and leveraging their data to foster growth and enable better decision-making. With years of experience, we offer expert advice in choosing the most suitable ERP solution tailored to our client's needs. We guide them throughout the implementation process, ensuring seamless integration and optimal utilization of the selected system.

In addition to ERP, we have expanded our expertise to encompass Business Intelligence and Cloud Architecture, offering comprehensive solutions to drive efficiency and innovation. With a strong focus on client success, we are committed to delivering reliable and transformative IT consulting services.





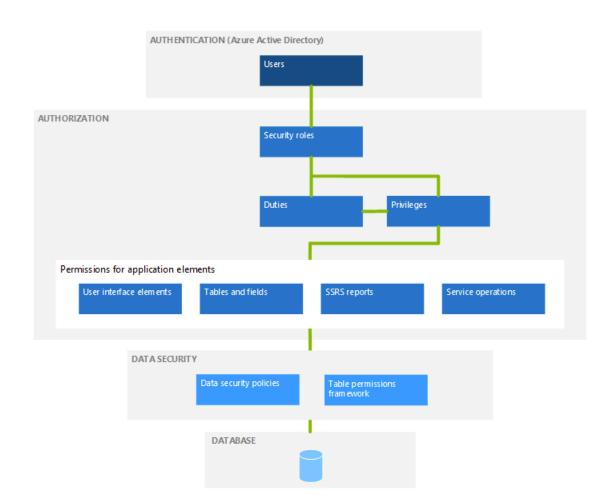
## Why EST?

Microsoft Dynamics D365 Finances & SCM proposes a role-based security architecture.

This architecture allows the realization of detailed security roles. However, our customers encounter difficulty in making it their own and be autonomous.

Even if Microsoft has added news features to help with security topics (Segregation of duties, Security diagnostics,...), it continues to be painful during and after project implementation.

That why we decided to create EST, our goal is to make **simpler and faster security roles management** using the concept of **security matrix**.







## What is a security matrix?

Security matrix are often used during project to initiate security roles reflection.

In general, it is look like an Excel file resuming all D365F&O menu entry points, then function teams ask customer business teams to fill by roles with menu items they want.

When the file is filled, functional and technical teams work together to create one by one each role trying to respect Excel matrix.

This work can be time-consuming and annoying.

A	В	С	D	E
1 Path	Label	Type	Name	Access
2 \Main menu\Accounts payable\Menus\AccountsPayable				
3 \Main menu\Accounts payable\Workspaces				
4 \Main menu\Accounts payable\Workspaces\Vendor invoice entry	Vendor invoice entry	Display	VendInvoiceWorkspace	Read
5 \Main menu\Accounts payable\Workspaces\Vendor invoice automation	Vendor invoice automation	Display	VendInvoiceAutomationWorkspace	Read
6 \Main menu\Accounts payable\Workspaces\Vendor payments	Vendor payments	Display	VendPaymentWorkspace	Read
7 \Main menu\Accounts payable\Vendors				
8 \Main menu\Accounts payable\Vendors\All vendors	All vendors	Display	VendTableListPage	Read
9 \Main menu\Accounts payable\Vendors\Vendors on hold	Vendors on hold	Display	VendTableHoldListPage	Read
10 \Main menu\Accounts payable\Vendors\Vendors past due	Vendors past due	Display	VendTablePastDueListPage	Read
11 \Main menu\Accounts payable\Vendors\Vendors who are diverse	Vendors who are diverse	Display	VendTableDiverseListPage	No access
12 \Main menu\Accounts payable\Vendors\Vendor exception groups	Vendor exception groups	Display	VendExceptionGroup	Read
13 \Main menu\Accounts payable\Vendors\Vendor groups	Vendor groups	Display	VendGroup	Read
14 \Main menu\Accounts payable\Vendors\Vendor price tolerance groups	Vendor price tolerance groups	Display	VendPriceToleranceGroup	Read
15 \Main menu\Accounts payable\Purchase orders				





# Basic Features

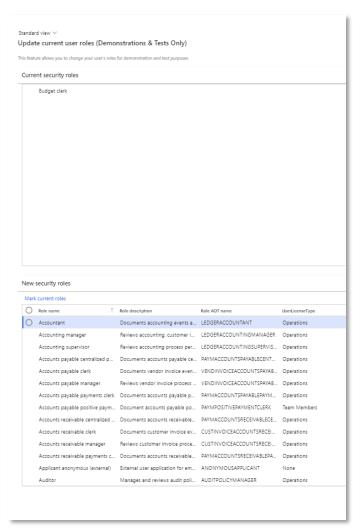


## Change current user roles

During security roles implementations, users often need to change their own roles to check and validate new security roles.

To be able to manage this, we often create test users account, or we ask to other peoples to change our security roles = **Annoying**.

With our feature, each user can change his own roles without being System Administrator, like that he can test **alone** all security roles.

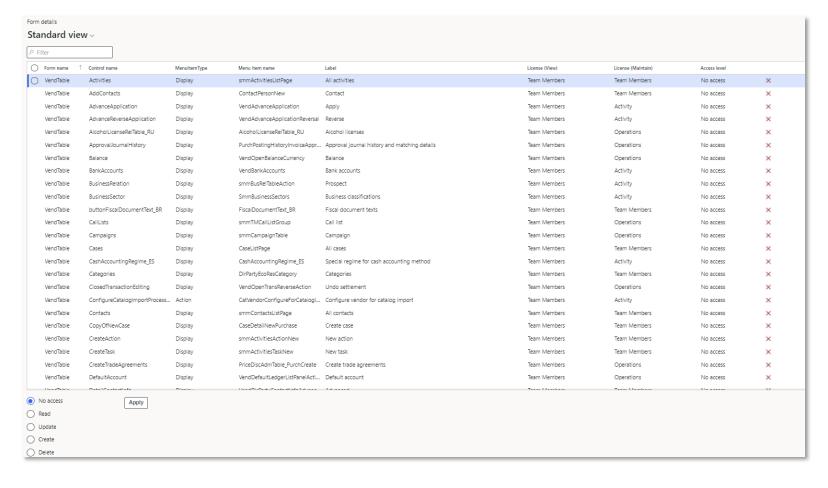






## Security matrix – Form Details

When you select a menu item display, you can display and select an access level for all menu items contained into linked form.



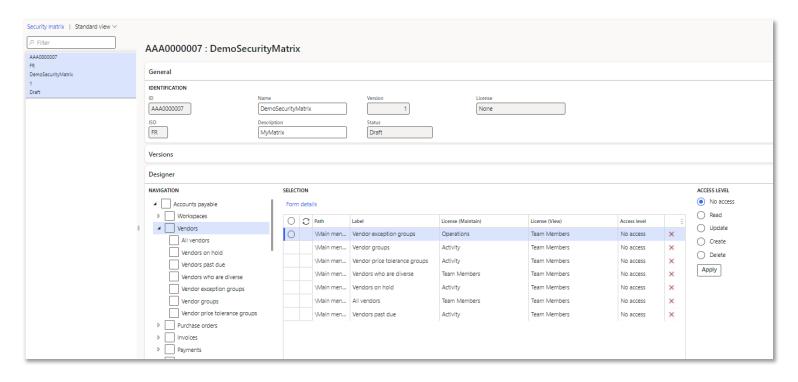




## Security matrix – Overview

We have developed a security matrix process into D365F&O, this feature allows you to:

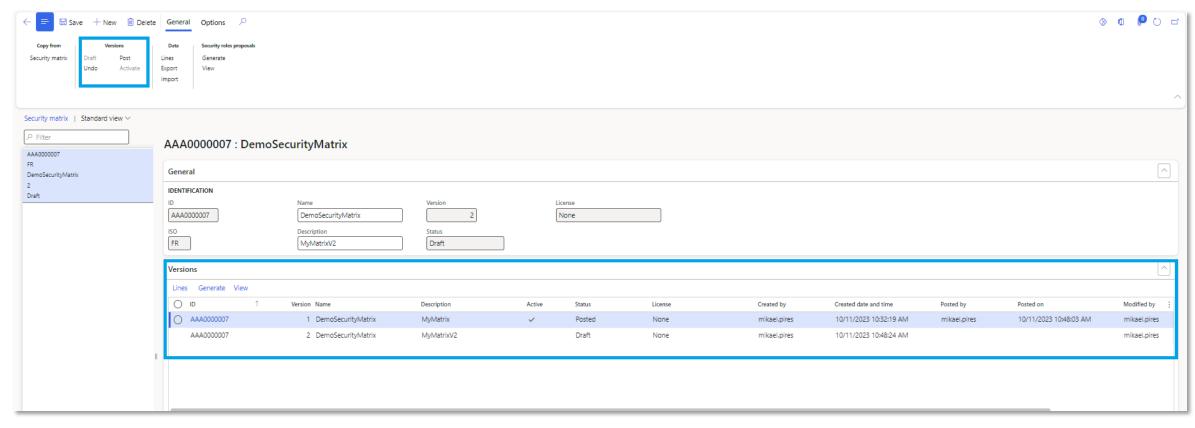
- Display all menus items in all D365F&O languages
- Select which menus entry points and which access level you want
- Select for menu items display, all menu items contained in linked forms and define an access level
- Archive your security matrix with versioning
- Export/Import security matrix with Excel







## Security matrix – Version management



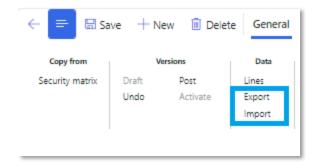
With version management, you can create several version for your security matrix and archive all modifications done. Each version can be exported on Excel, you can create a new version from another one, etc...





# Security matrix – Excel Import/Export

With Excel Import/Export feature, you can generate an Excel file with all your security matrix data. You can edit this file and re-import it to update your security matrix or create a new one.



	A	В	C	D	E
	Path	Label	Туре	Name	Access
\Main menu\Acc	ounts payable\Menus\AccountsPayable				
\Main menu\Acc	ounts payable\Workspaces				
\Main menu\Acc	ounts payable\Workspaces\Vendor invoice entry	Vendor invoice entry	Display	VendInvoiceWorkspace	Read
Main menu\Acc	ounts payable\Workspaces\Vendor invoice automation	Vendor invoice automation	Display	VendInvoiceAutomationWorkspace	Read
Main menu\Acc	ounts payable\Workspaces\Vendor payments	Vendor payments	Display	VendPaymentWorkspace	Read
\Main menu\Acc	ounts payable\Vendors				
Main menu\Acc	ounts payable\Vendors\All vendors	All vendors	Display	VendTableListPage	Read
Main menu\Acc	ounts payable\Vendors\Vendors on hold	Vendors on hold	Display	VendTableHoldListPage	Read
Main menu\Acc	ounts payable\Vendors\Vendors past due	Vendors past due	Display	VendTablePastDueListPage	Read
Main menu\Acc	ounts payable\Vendors\Vendors who are diverse	Vendors who are diverse	Display	VendTableDiverseListPage	No access
Main menu\Acc	ounts payable\Vendors\Vendor exception groups	Vendor exception groups	Display	VendExceptionGroup	Read
\Main menu\Acc	ounts payable\Vendors\Vendor groups	Vendor groups	Display	VendGroup	Read
\Main menu\Acc	ounts payable\Vendors\Vendor price tolerance groups	Vendor price tolerance groups	Display	VendPriceToleranceGroup	Read
\Main menu\Acc	ounts payable\Purchase orders				
\Main menu\Acc	ounts payable\Purchase orders\All purchase orders	All purchase orders	Display	PurchTableListPage	Read
\Main menu\Acc	ounts payable\Purchase orders\Purchase orders assigned to me	Purchase orders assigned to me	Display	PurchTableListPageAssignedToMe	Read
\Main menu\Acc	ounts payable\Purchase orders\Purchase orders received but not	Purchase orders received but not invoiced	Display	PurchTableReceivedNotInvoicedListPage	Read
\Main menu\Acc	ounts payable\Purchase orders\Purchase agreements	Purchase agreements	Display	PurchAgreementListPage	Read
\Main menu\Acc	ounts payable\Purchase orders\Open prepayments	Open prepayments	Display	PurchPrepayOpen	Read
\Main menu\Acc	ounts payable\Invoices				
\Main menu\Acc	ounts payable\Invoices\Pending vendor invoices	Pending vendor invoices	Display	VendInvoiceInfoListPage	Read
\Main menu\Acc	ounts payable\Invoices\Pending vendor invoices assigned to me	Pending vendor invoices assigned to me	Display	VendInvoiceAssignedToMeListPage	Read
Main menu\Acc	ounts payable\Invoices\Invoice journal	Invoice journal	Display	LedgerJournalTable9	Read
\Main menu\Acc	ounts payable\Invoices\Global invoice journal	Global invoice journal	Display	LedgerJournalTableVendInvoiceGlobal	Read
\Main menu\Acc	ounts payable\Invoices\Open vendor invoices	Open vendor invoices	Display	VendOpenInvoicesListPage	Read
\Main menu\Acc	ounts payable\Invoices\Vendor invoices due today	Vendor invoices due today	Display	VendOpenInvoicesDueTodayListPage	Read
\Main menu\Acc	ounts payable\Invoices\Vendor invoices past due	Vendor invoices past due	Display	VendOpenInvoicesPastDueListPage	Read
Main menu\Acc	ounts payable\Invoices\Vendor invoices assigned to queues that	I Vendor invoices assigned to queues that I belong to	Display	VendInvoiceAssignedToQueuesThatIBelongTo	Read
Main menu\Acc	ounts payable\Invoices\Invoice register	Invoice register	Display	LedgerJournalTable6	Read
Main menu\Acc	ounts payable\Invoices\Invoice pool	Invoice pool	Display	VendTransInvoicePoolReg	Read
\Main menu\Acc	ounts payable\Invoices\Invoice approval	Invoice approval	Display	LedgerJournalTable4	Read



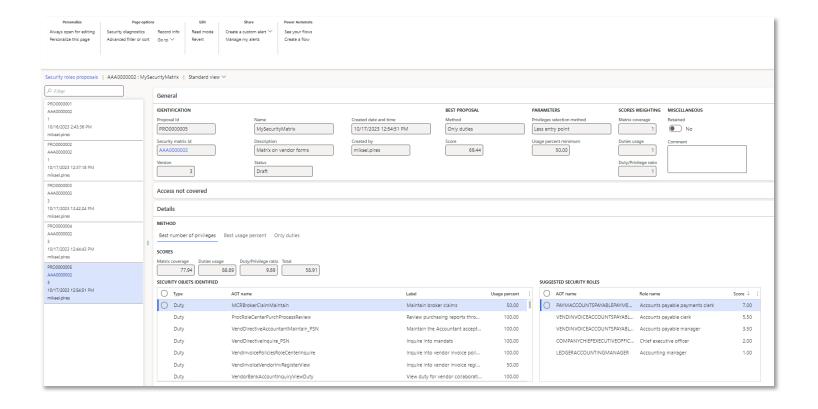


# Advanced Features



## User roles proposals - Overview

From your security matrix, you can generate user roles proposals. A proposal propose all security elements needed to cover your security matrix data. Proposal calculate several combination of duties and privileges to cover your security matrix. Each combination has scores, and you can see which roles can be interesting with its matching score.







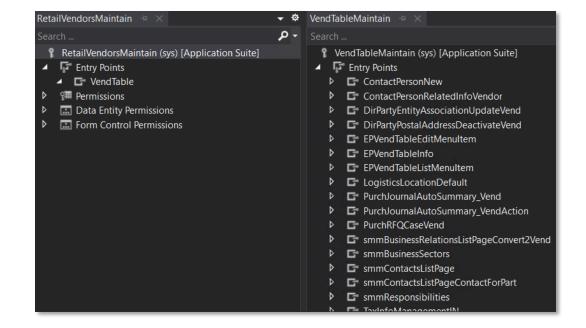
# User roles proposals Privileges selection method

Couple menu item and access level can be defined in several privileges, so we have defined several selection method:

- **All** = Select all privileges that contains this couple
- First only = Select first privilege by alphabetical order
- Most entry points = Select privilege with most entry points
- Less entry points = Select privilege with less entry points

In this example, we will select:

- All = RetailVendorsMaintain and VendTableMaintain privileges
- **First Only** = RetailVendorsMaintain privilege
- Most entry points = VendTableMaintain privilege
- Less entry points = RetailVendorsMaintain privilege







## User roles proposals Proposal methods & Scores

### User roles proposal have 3 calculations methods:

- Best number of privileges = We select duties ordered by number of expected privileges they contain. \*
  - → Duty A = 4 privileges & Priv20
- Best usage percent = We select duties ordered by the ratio between number of expected privileges in it and all duty's privileges.\*
  - → Duty B = 100% & Duty C = 50% & Priv20
- Only duties = We select only duties using "Best percent as possible" approach → Duty B = 100% & Duty C = 50% & Duty D = 10%

### For each method, we calculate 4 scores:

- Matrix coverage = Percent of expected menultems/access level found into existing privileges
- Duties usage = For duties, average of ratio between number of expected privileges in its and all duty's privileges
- Ratio Duties/Privileges = Percent of Duties used in all security objects used (Duties & Privileges)

### **Expected** Privileges

Priv4

Priv20

### **Duty A**

Priv3

Priv10

### **Duty C**

Priv5

### **Duty B**

Priv1 Priv2 Priv3 **Duty D** 

Priv30

Total = Average of those 3 scores with possibility to apply weighting for each score





<sup>\*</sup>A minimum ratio between number of expected privileges and duty's privileges can be defined. In our example, we have defined this minimum to 50%

# User roles proposals Suggested security roles

For each proposal method, you can find 5 suggested roles ordered by their score, score is calculed using following method:

Nb of duties covered by current role + Nb of privileges covered by current role

Nb of duties in current proposal+ Nb of privileges in current proposal

More and more you will adapt your security objects (privileges, duties and roles), you will have higher scores and better security roles suggested.

At the end, user roles proposals will suggest your customized roles as best role to cover your security matrix.

0	AOT name	Role name	Score ↓
	DE0C8E42-A245-4581-A44F-19	EUKSECVendorExample	100.00
	VENDINVOICEACCOUNTSPAYAB	Accounts payable clerk	2.15
<b>②</b>	TRADEBUYINGAGENT	Buying agent	1.82
	TRADEPURCHASINGMANAGER	Purchasing manager	0.83
	VENDINVOICEACCOUNTSPAYAB	Accounts payable manager	0.78





# Licensing



## Licensing

Our licenses must be renewed once a year and price is fixed regardless number of users or environments :

- Basis Access to basic features 2K / Year
- Advanced Access to Basic + Advanced features 6K / Year





# RoadMap



## Release schedule

We will release a new EST version at each Microsoft releases, and we will release when it is needed hotfix update:

- New EST version will contain new features, hotfixes and new Microsoft release compliance.
- Hotfix update will contain only hotfixes.

/!\ In 2024, Microsoft will change its release schedule plan, we will have 4 updates instead of 7 /!\ https://learn.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/get-started/public-preview-releases





## Next releases

### **V1 – November 2023**

First Release

### **V1.1 – December 2023**

#### Advanced

- Create role from proposal
- Create Security Matrix from Security roles

### V1.2 - Q1 2024

#### <u>Basis</u>

• Security matrix data entities

### <u>Advanced</u>

• User roles proposals data entities

### V1.3 - Q2 2024

### **Basis**

• Security matrix comparison

#### Advanced

• User roles proposals comparison

### V1.4 - Q3 2024

#### **Basis**

· Security matrix reporting

### <u>Advanced</u>

• User roles proposals reporting

### V1.5 - Q4 2024

Focus on customers feedbacks







## **Thank You**

