



Field Level Security App



Field Level Security

Ever wondered how you can manage roles & permissions at 'field level' in Business Central. There have been multiple cases when an organization needs to control security at 'field level' but this has remained a challenge ever since.

This APP will let you define user-based field level permissions.

You can control on the fly of your own on what tables & fields are to be permissible to a user and what not. Once this APP is installed there is no need of Developer to make custom changes and you can control & manage the field level security with admin rights.

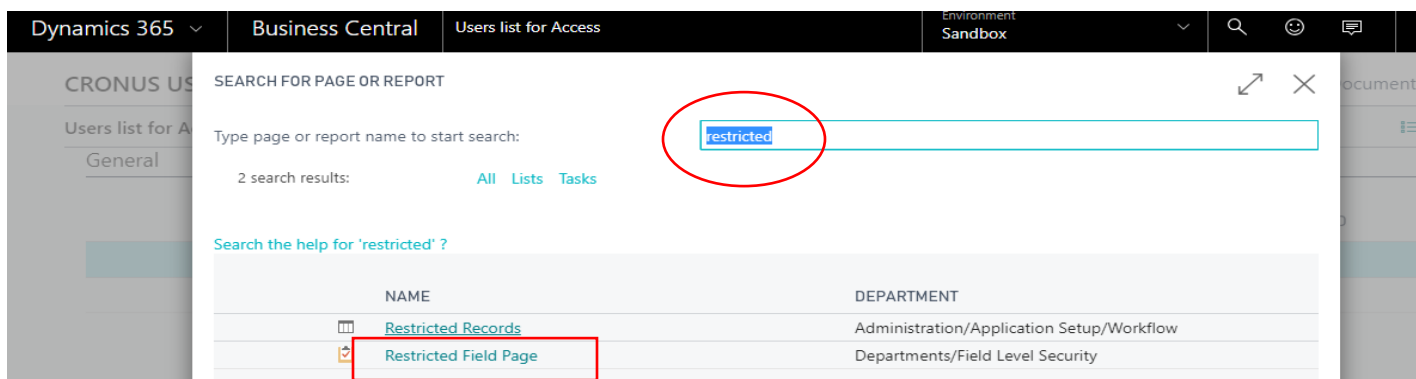
Example:

If we want to restrict a user's ability to modify the **City** of a **customer** or delete a customer record, then with the help of this app, we can set up field/record level security.

Field Level Security Setup:

Step 1:

On Business central search as below:



The screenshot shows the Dynamics 365 Business Central search interface. The search bar contains the text 'restricted', which is circled in red. Below the search bar, there are two search results listed in a table. The first result is 'Restricted Records' and the second is 'Restricted Field Page'. The 'Restricted Field Page' result is highlighted with a red box. The table has columns for 'NAME' and 'DEPARTMENT'.

NAME	DEPARTMENT
Restricted Records	Administration/Application Setup/Workflow
Restricted Field Page	Departments/Field Level Security

Step 2: Open 'Restricted field' page and create some demo data as below with table id and field id as below:

Restricted Fields

	TABLE ID		TABLE NAME		FIELD ID	FIELD NAME
	18	...	Customer		7	City
	27	...	Item		6	Assembly BOM
	18	...	Customer		5	Address

This page consists of the following fields:

- **Table ID:** Define the ID of the Table against which you want to create field level security.
 - e.g. table 18 (customer).
- **Table Name:** Auto populates the correspondence Table ID.
- **Field ID:** Define the ID of the field against which you want to assign field level permissions.
 - e.g. field id -7 (city) of customer table (18).
- **Field Name:** Auto populates the correspondence Field ID.

Step 3: Once the fields have been defined, click on the 'User Access' button to set up individual authorization for those fields.

The screenshot shows the Dynamics 365 interface. At the top, the navigation bar includes 'Dynamics 365', 'Business Central', and the breadcrumb 'Sales Orders > Extension Management > Restricted Field Page'. The environment is 'Sandbox'. Below the navigation bar is the 'ACTIONS' bar with icons for 'New', 'Delete', 'Edit List', 'User Access' (highlighted with a red box), and 'Edit in Excel'. The main content area shows the 'Restricted Fields' table with the following data:

	TABLE ID		TABLE NAME		FIELD ID	FIELD NAME
	18	...	Customer		5	Address
	18	...	Customer		7	City
	27	...	Item		6	Assembly BOM

Step 4:

On click of action 'User Access' new page will open and show list of users available in 'user setup' with that table id and field id, kindly look into below example of table Id 18 and field Id 7:

Note: only those users will show whose user setup is defined.

VIEW - USERS LIST FOR ACCESS ☰ ☱ 🔍

General

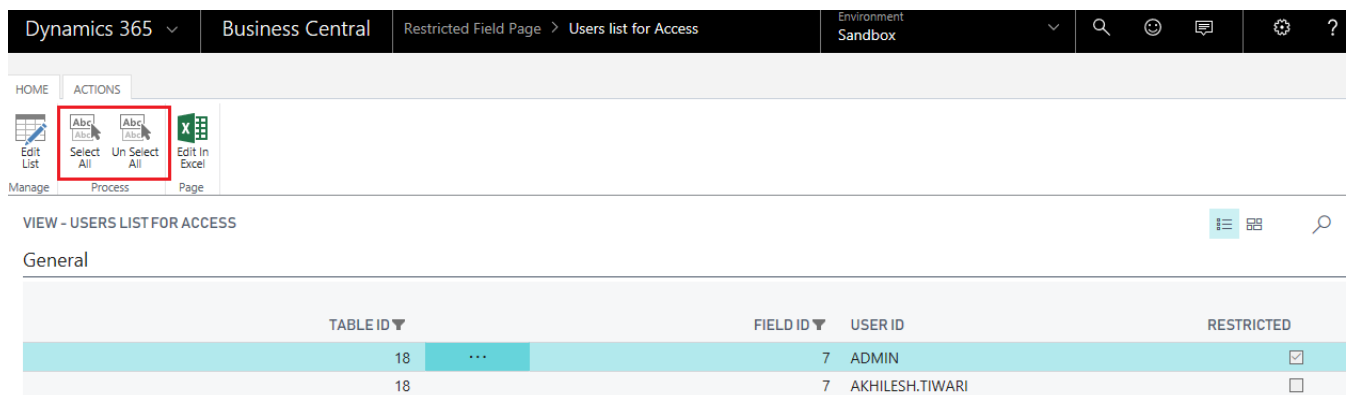
TABLE ID ▼	FIELD ID ▼	USER ID	RESTRICTED
18	...	7 ADMIN	<input checked="" type="checkbox"/>
18		7 AKHILESH.TIWARI	<input type="checkbox"/>

Fields available:

- **Table Id:** Auto populates.
- **Field Id:** Auto populates.
- **User ID:** Auto populates all available users.
- **Restricted:** Boolean. Check the appropriate user ID to restrict the ability to modify or delete.

Note: If you check Restricted Boolean against those users as shown in above example, cannot modify that field.

If there is a large number of users, have two buttons to allow **select all** and **unselect all**.



Dynamics 365 Business Central Restricted Field Page > Users list for Access Environment Sandbox

HOME ACTIONS

Manage Process Page

VIEW - USERS LIST FOR ACCESS ☰ ☱ 🔍

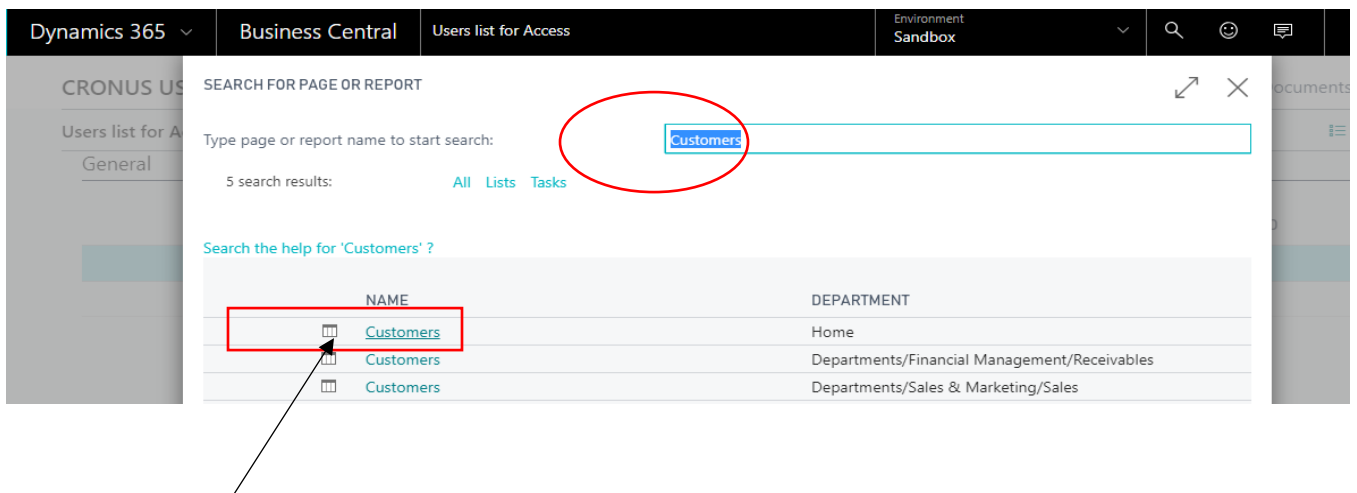
General

TABLE ID ▼	FIELD ID ▼	USER ID	RESTRICTED
18	...	7 ADMIN	<input checked="" type="checkbox"/>
18		7 AKHILESH.TIWARI	<input type="checkbox"/>

Step 5: Now we will check that Restricted users cannot modify that field.

- Let's take an above example to restrict customer's city. When a restricted user tries to modify the customer address on a customer card, they will be prompted with an error:

Go to the search and type **Customers** as below:



Click on search result here, new customer list page will open as below:

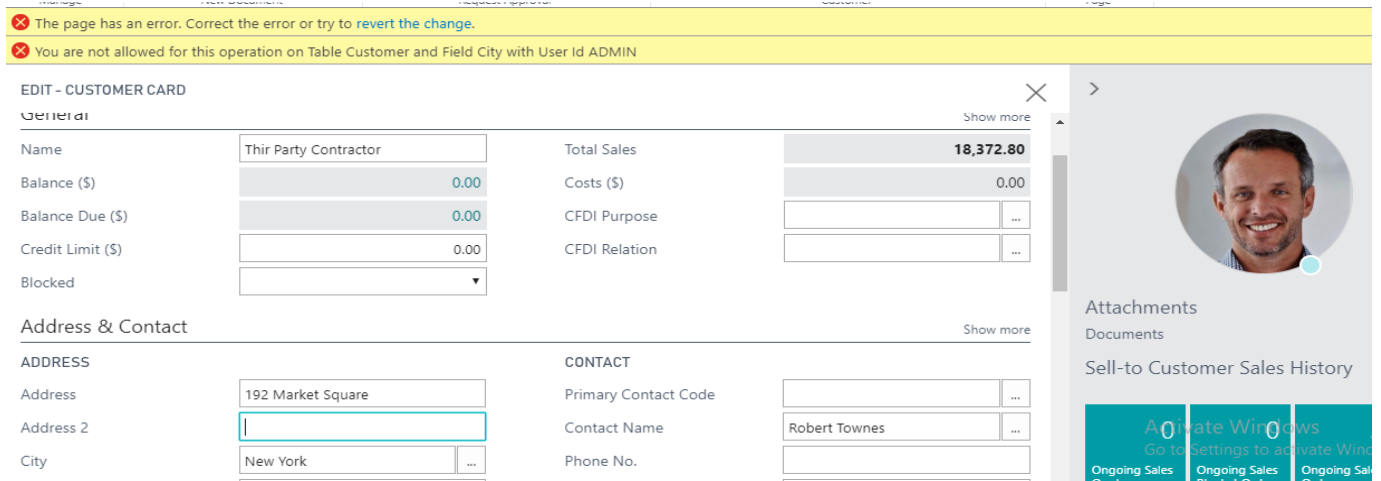
VIEW - CUSTOMERS + New

 10000 Thir Party Contractor Robert Townes 0.00 0.00	 20000 Trey Research Helen Ray 3,036.60 3,036.60
 30000 School of Fine Art Meagan Bond 53,833.52 53,833.52	 40000 Alpine Ski House Ian Deberry 4,316.92 4,316.92
 50000 Relecloud Jesse Homer 8,836.80 8,836.80	 C00010 A. Datum 0.00 0.00
 C00020 Pulyap District 7 0.00 0.00	 C00030 Wingtip Toys 100.00 100.00

Click on any customer, card will open and now try to modify the city of that customer, after modification press

Esc button to close the page, if the user is restricted to modify in above user access setup, he will get below

Error and modification will rollback:



The screenshot displays a web application interface with a yellow error banner at the top. The banner contains two messages: "The page has an error. Correct the error or try to [revert the change](#)." and "You are not allowed for this operation on Table Customer and Field City with User Id ADMIN". Below the banner is the "EDIT - CUSTOMER CARD" form, which is divided into two main sections: "General" and "Address & Contact".

General Section:

Name	Thir Party Contractor	Total Sales	18,372.80
Balance (\$)	0.00	Costs (\$)	0.00
Balance Due (\$)	0.00	CFDI Purpose	...
Credit Limit (\$)	0.00	CFDI Relation	...
Blocked	▼		

Address & Contact Section:

ADDRESS		CONTACT	
Address	192 Market Square	Primary Contact Code	...
Address 2		Contact Name	Robert Townes
City	New York	Phone No.	

On the right side of the form, there is a sidebar with a user profile picture, a "Show more" link, and a list of actions: "Attachments", "Documents", and "Sell-to Customer Sales History". At the bottom of the sidebar, there are three blue buttons with the text "Activate Windows" and "Go to Settings to activate Windows".