

Sub Inventory Transfer Restriction Using Page Composer in Oracle Cloud



**TRINAMIX WHITE PAPER,
BY Shravan Donthula**

What is Sub-Inventory Transfer Restriction?

Sub-Inventory Transfer Restriction is a business scenario where certain group of users should be allowed to do the sub inventory transfers only between certain specific sub inventories.

Why is it useful for Business?

The functionality gives the control for the business to move the materials from Quarantine Sub-Inventories to the other Sub-Inventories. Only the Quality Inspectors will have the access to move the material from the Restricted Sub-Inventories to the Non-Restricted Sub-Inventories. This functionality is widely asked and used in the Pharma and Healthcare Businesses where the Movement of API or Drugs play a major role.

How is this Functionality Achieved?

This functionality is achieved by adding a custom role to the user. If the custom role is added to the user will have the full rights to transfer the material across any sub-inventory. The user without this role will not be able to transfer the material from the restricted sub-inventory to non-restricted sub-inventory. The page composer also helps in achieving this functionality.

How we achieved using Page Composer existing functionality?

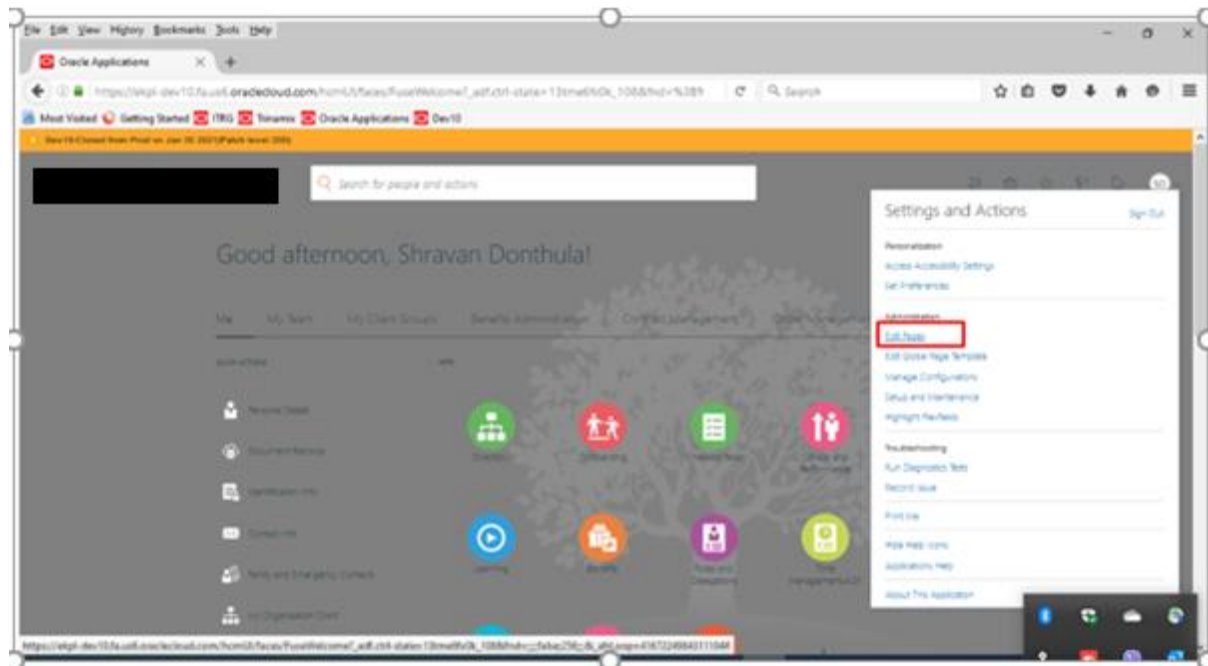
- We created validate button on sub inventory transfer page, behind that button code added the quarantine sub inventories, Inventory Organizations and Custom role.
- We added the code for “Submit” and “Submit and create another” buttons as well.
- If user doesn't have the custom role the “Validate” button will show while doing sub inventory, he/she can click on that button, the from sub inventory is there in the list of quarantine sub inventory then the transaction will stop and pop-up the error message like you can't able to do the sub inventory transfer. The from sub inventory not exists in list of quarantine sub inventory after click on validate button then other two buttons “Submit” and “Submit and create another” button will be shown and click on “Submit” button the transaction went success.
- If user having the custom role, he/she can able to do the sub inventory transfer without any restrictions/issues.

What is page composer?

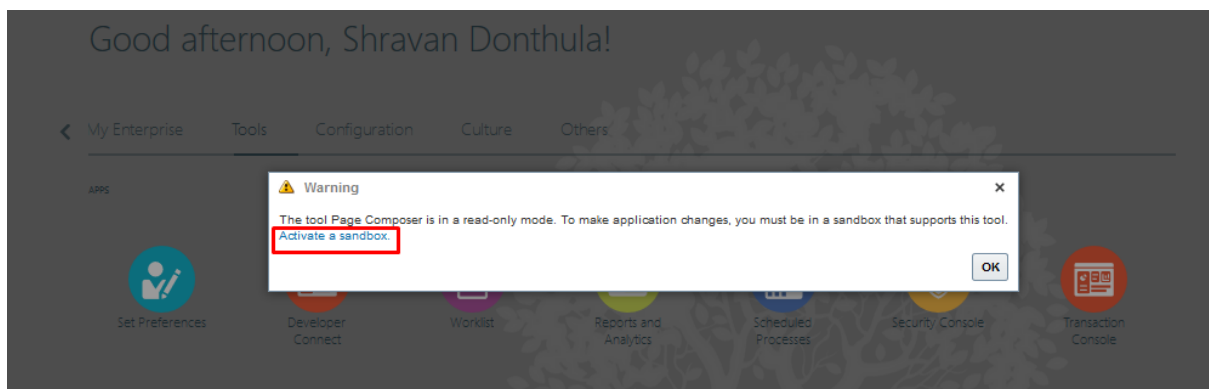
Page Composer is a very simple yet a robust feature within Oracle Fusion Cloud which allows making changes to various properties of a UI Component including Hiding a field, making a field read only, hiding an entire region.

Steps to Use Page Composer

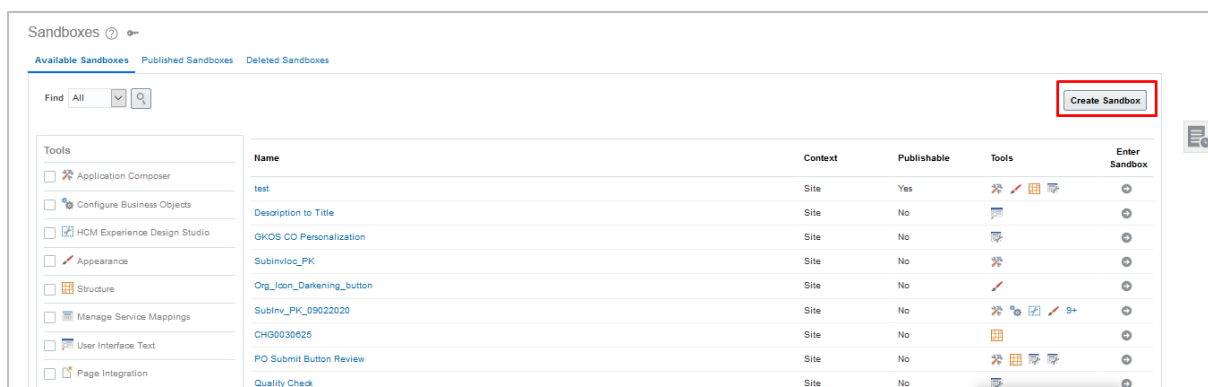
→ Go to → Settings and Actions → Click on Edit Pages



Select the Activate Sandbox



Click on "Create Sandbox"



Enter the Name and Description of the sandbox and Enable the check boxes which is required for page composer.

Create Sandbox ?

Name

GLK_SUB_INV_RESTRICT

Description

GLK_SUB_INV_RESTRICT

Publishable

☒ Yes
 ☐ No

All Tools

Active	Name	Description	Supported Context	Additional Information
<input checked="" type="checkbox"/>	Application Composer	Create custom objects and fields, extend user interfaces and busin...	Site	
<input type="checkbox"/>	Configure Business Objects	Configure Business Objects	Site	
<input type="checkbox"/>	HCM Experience Design Studio	HCM Experience Design Studio	Site	
<input checked="" type="checkbox"/>	Appearance	Change the look and feel of the application	Site	
<input type="checkbox"/>	Structure	Configure the Navigator and springboard	Site	
<input type="checkbox"/>	Manage Service Mappings	Search, create, edit, or delete service mappings	Site	
<input type="checkbox"/>	User Interface Text	User Interface Text	Site	
<input type="checkbox"/>	Data Security	Create data security policies for business objects, and add grants t...	Site	
<input type="checkbox"/>	Lookups	Create lookups, and modify the existing ones.	Site	

☒

Page Composer

Add and edit page content.

Site

Select Create and Enter

Create Sandbox ?

Name

GLK_SUB_INV_RESTRICT

Description

GLK_SUB_INV_RESTRICT

Publishable

☒ Yes
 ☐ No

All Tools

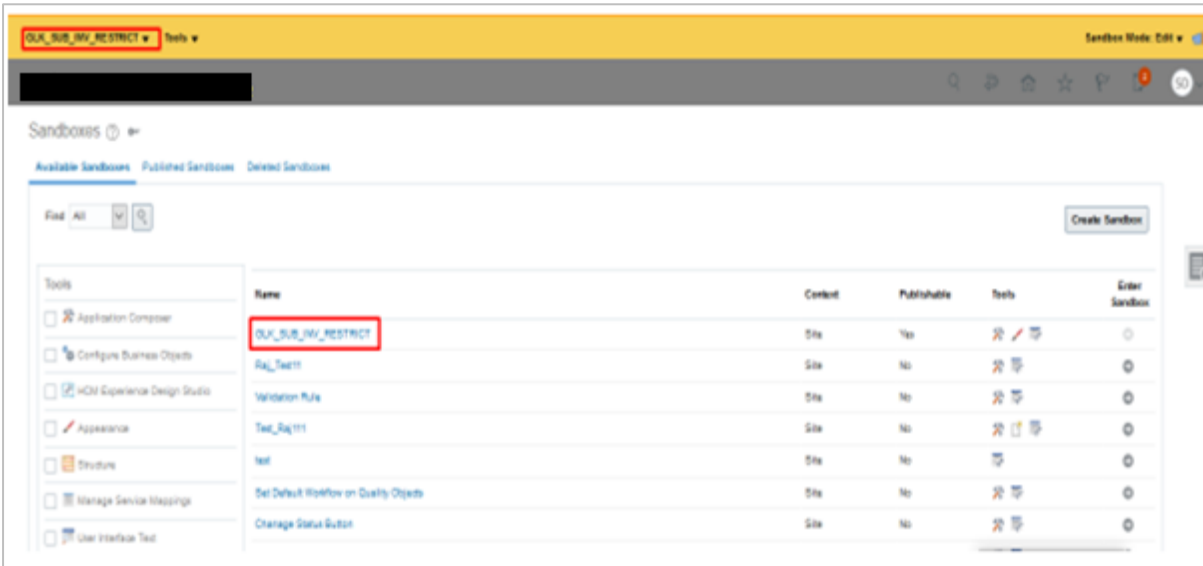
Active	Name	Description	Supported Context	Additional Information
<input checked="" type="checkbox"/>	Application Composer	Create custom objects and fields, extend user interfaces and busin...	Site	
<input type="checkbox"/>	Configure Business Objects	Configure Business Objects	Site	
<input type="checkbox"/>	HCM Experience Design Studio	HCM Experience Design Studio	Site	
<input checked="" type="checkbox"/>	Appearance	Change the look and feel of the application	Site	
<input type="checkbox"/>	Structure	Configure the Navigator and springboard	Site	
<input type="checkbox"/>	Manage Service Mappings	Search, create, edit, or delete service mappings	Site	

Create

Create and Enter

Cancel

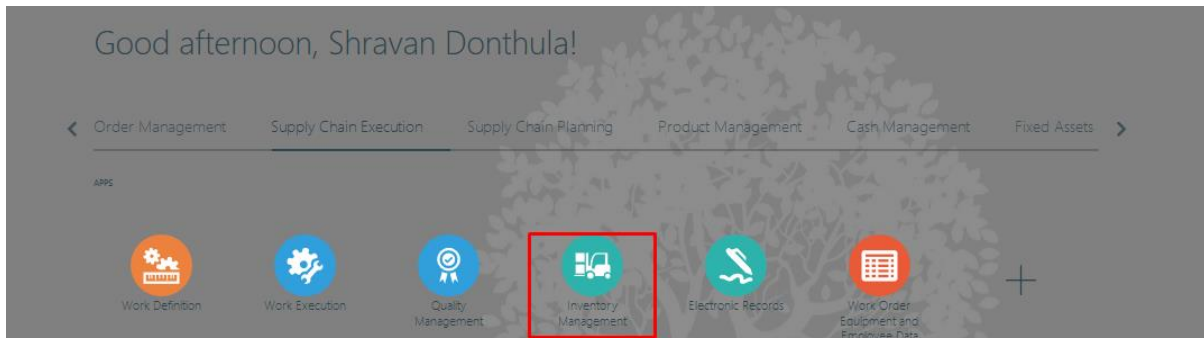
We are entered in sandbox now



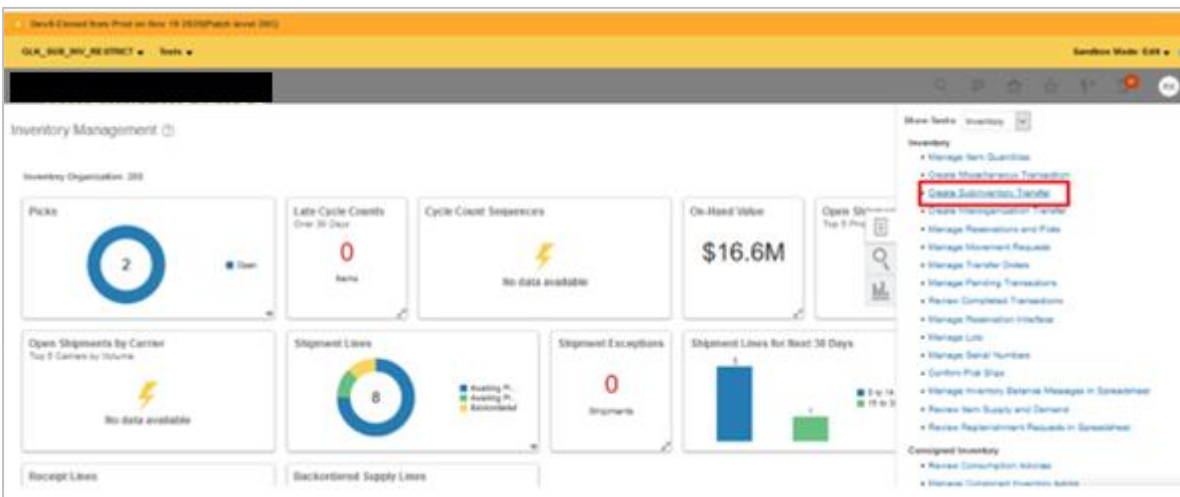
Tools	Name	Content	Publishable	Tools	Enter Sandbox
<input type="checkbox"/> Application Composer	SUX_SUB_INV_RESTRICT	Site	Yes		
<input type="checkbox"/> Configure Business Objects	Rag_Test11	Site	No		
<input type="checkbox"/> HCM Experience Design Studio	Validation Rule	Site	No		
<input type="checkbox"/> Appearance	Test_Rag111	Site	No		
<input type="checkbox"/> Structure	test	Site	No		
<input type="checkbox"/> Storage Service Mappings	Set Default Workflow on Quality Objects	Site	No		
<input type="checkbox"/> User Interface Test	Change Status Button	Site	No		

Which page/functionality your going to restrict , go to that page.

Supply Chain Execution → Inventory Management



Go to Task and select Sub Inventory Transfer



After we entered all the details in below

Inventory Organization 200 [Change Organization](#)

[Validate](#) [Cancel](#)

Create Subinventory Transfer ⓘ

Transaction

* Date: 3/26/2021 10:11 AM ⓘ

* Type: Subinventory Transfer ⓘ

☐ Enter transactions by serial numbers

Source:

Transaction Lines ⓘ

Actions View ⓘ [Record Lots and Serial Numbers](#) [Edit Details](#)

Line	* Item	Source	Destination	* UOM Name	* Quantity Reason
		* Subinventory Locator	* Subinventory Locator		

No data to display.

Click on Tools → Page Composer

Dev10-Closed from Prod on Nov 19 2020(Patch level 29C)

GLK_SUB_INV_RESTRICT Tools

Sandbox Mode Edit ⓘ

[Application Composer](#)

[Page Composer](#)

[Add More...](#) [Add and edit page content.](#)

Inventory Organization 200 [Change Organization](#)

[Validate](#) [Cancel](#)

Create Subinventory Transfer ⓘ

Transaction

* Date: 3/26/2021 10:11 AM ⓘ

* Type: Subinventory Transfer ⓘ

☐ Enter transactions by serial numbers

Source:

Transaction Lines ⓘ

Actions View ⓘ [Record Lots and Serial Numbers](#) [Edit Details](#)

Line	* Item	Source	Destination	* UOM Name	* Quantity Reason
		* Subinventory Locator	* Subinventory Locator		

No data to display.

Availability ⓘ

Available Quantity

Secondary Available Quantity

Select the Structure

Most Visited Getting Started ⓘ TRIG ⓘ Trinamix ⓘ Oracle Applications ⓘ Dev10

Dev10-Closed from Prod on Nov 19 2020(Patch level 29C)

GLK_SUB_INV_RESTRICT Tools

Sandbox Mode Edit ⓘ

View Editing: User Interface Edit Layer: Site - SITE Manage Configurations

[Add Content](#) [Select](#) [Structure](#)

Inventory Organization 200 [Change Organization](#)

[HTML Markup](#) [Validate](#) [Cancel](#)

Create Subinventory Transfer ⓘ

Transaction

* Date: 3/26/2021 10:11 AM ⓘ

* Type: Subinventory Transfer ⓘ

☐ Enter transactions by serial numbers

Source:

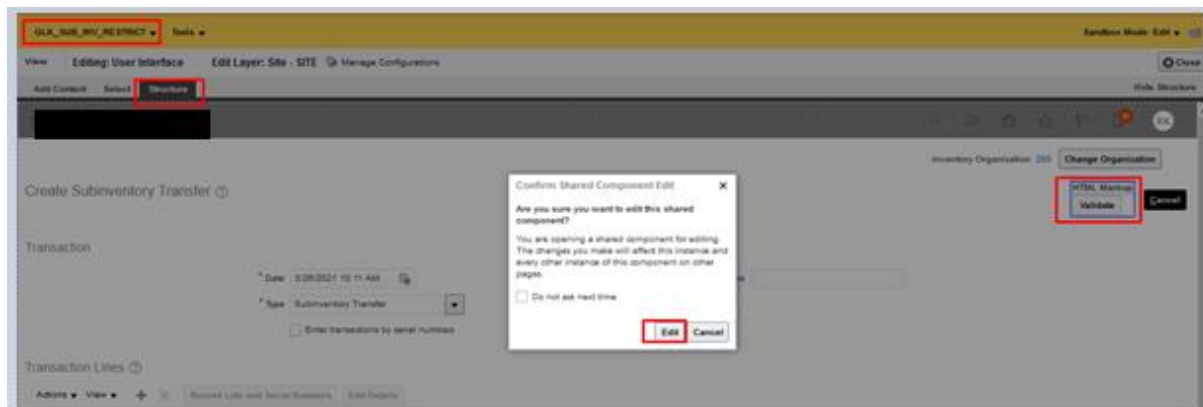
Transaction Lines ⓘ

Actions View ⓘ [Record Lots and Serial Numbers](#) [Edit Details](#)

Line	* Item	Source	Destination	* UOM Name	* Quantity Reason
		* Subinventory Locator	* Subinventory Locator		

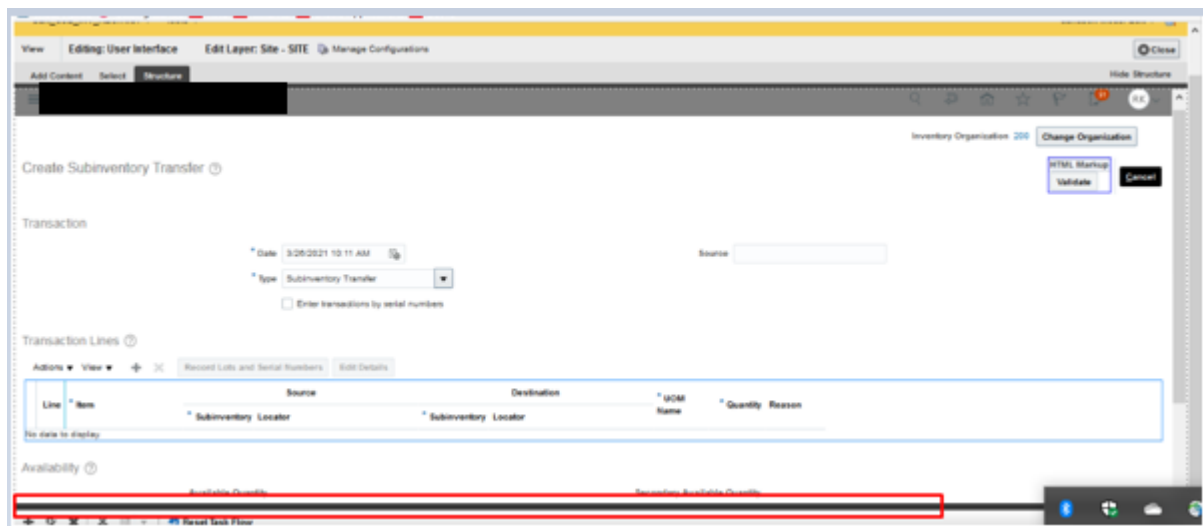
No data to display.

Click on Validate Button



Click on Edit Button.

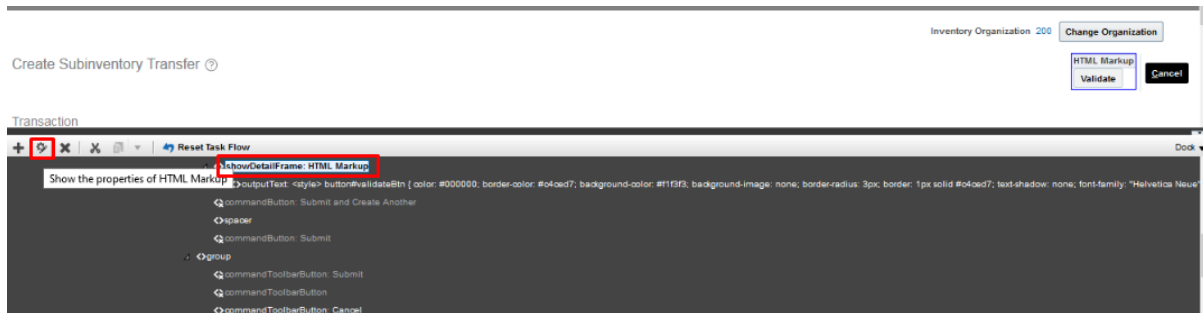
The Page composer will open in the bottom down on the same page.



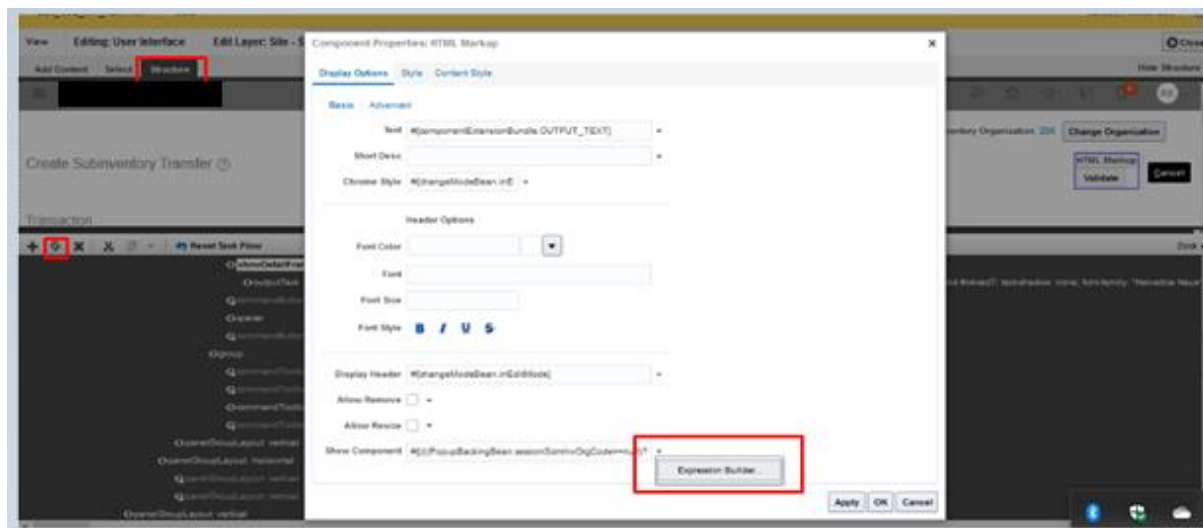
You can select that line and drag up, then the page composer code will shown.



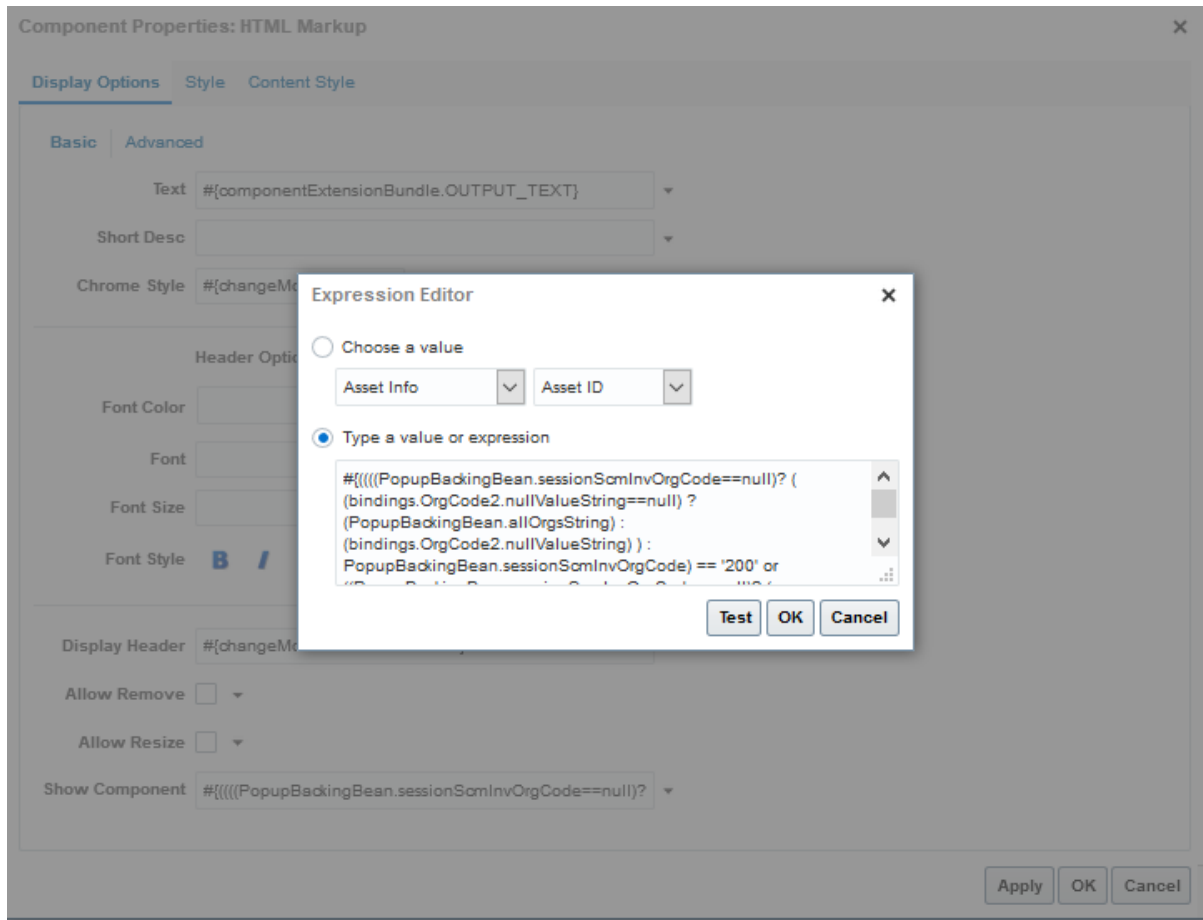
You can select button and go to properties , it will shown the code behind that button.



In the Show Component drop down select the Expression Builder

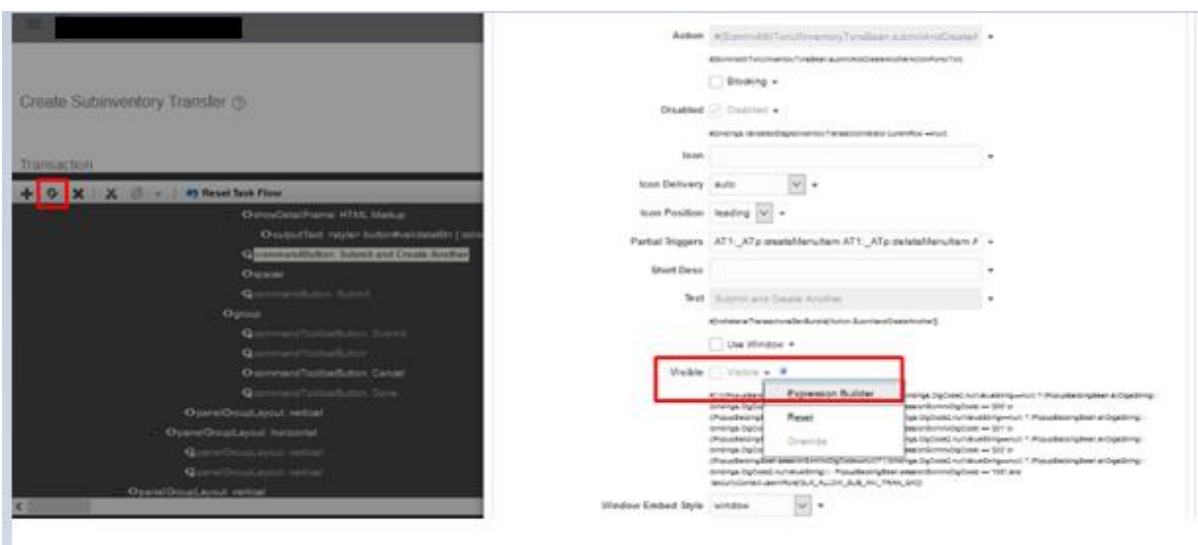


Modify the code according to your requirement

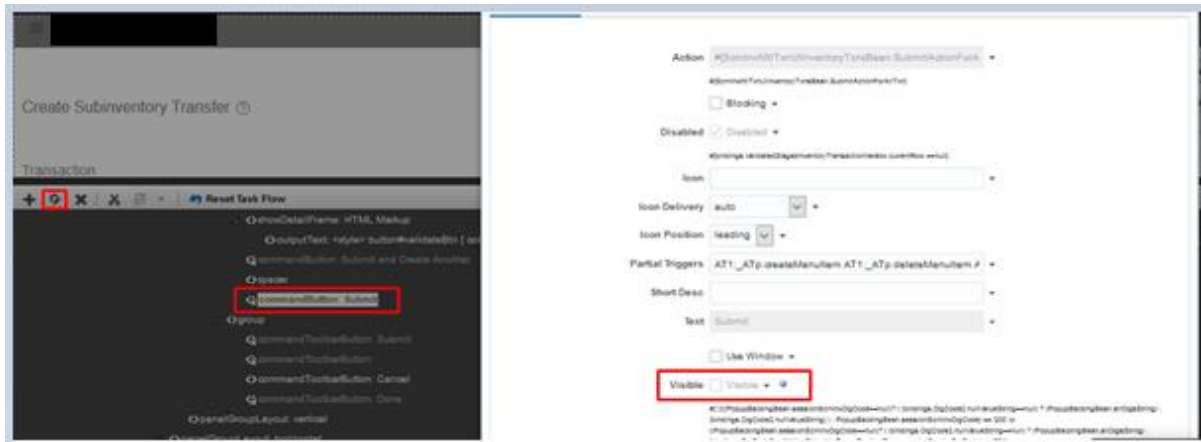


Click on Test , if it is not through any error click on “OK” Button.

To select the “Submit and Create another” Button and modify the code.

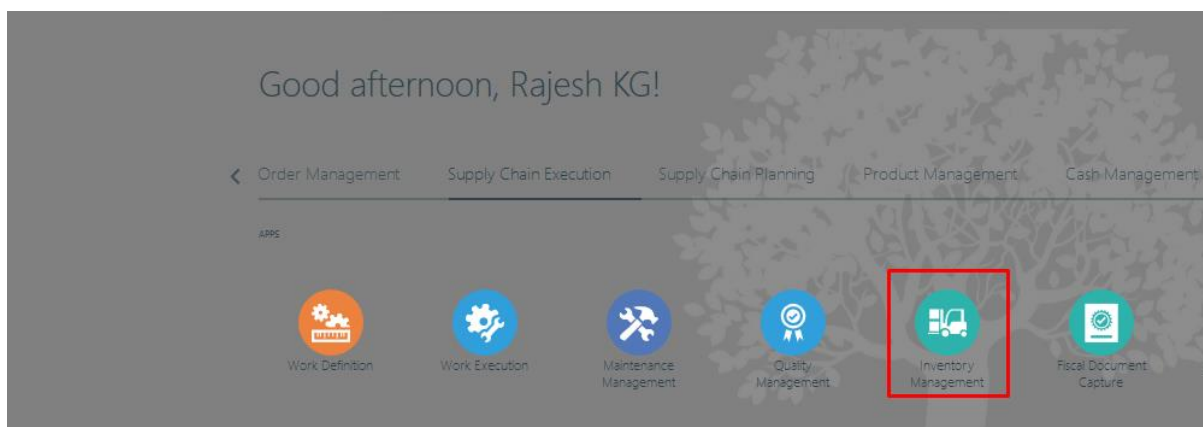


To select “Submit” Button and modify the code.

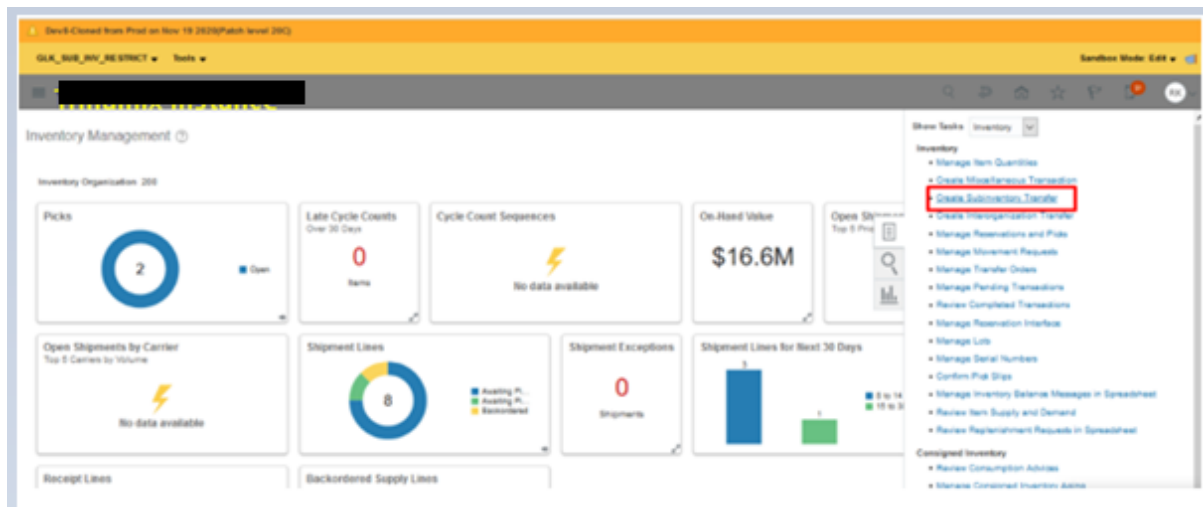


Now my page composer code is ready for restricting the list of Organizations and sub inventory included in the page composer code.

Supply Chain Execution → Inventory Management

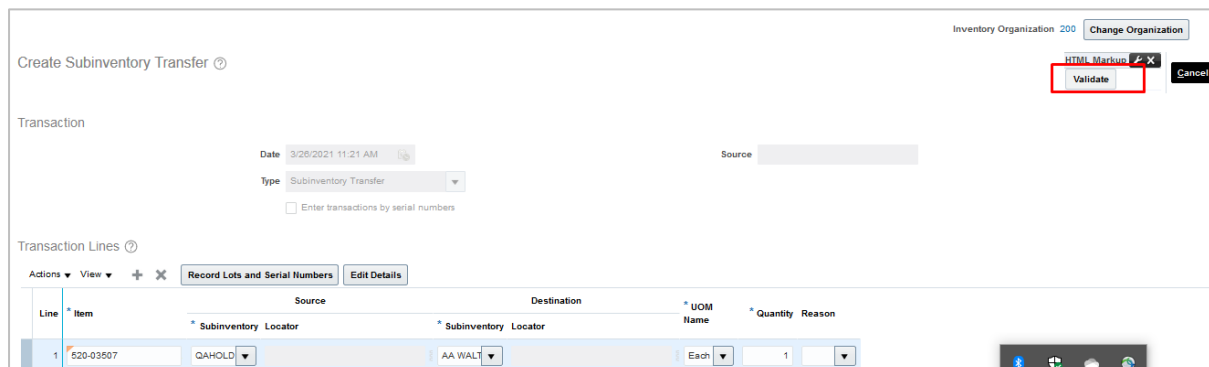


Go to task select Sub Inventory Transfer.



Then Click on Validate Button to restrict the sub Inventory Transfer ,the below POP-UP Error message will through.

Enter all the details.



Inventory Organization: 200

Create Subinventory Transfer

Transaction

Date: 3/25/2021 11:21 AM

Type: Subinventory Transfer

Source:

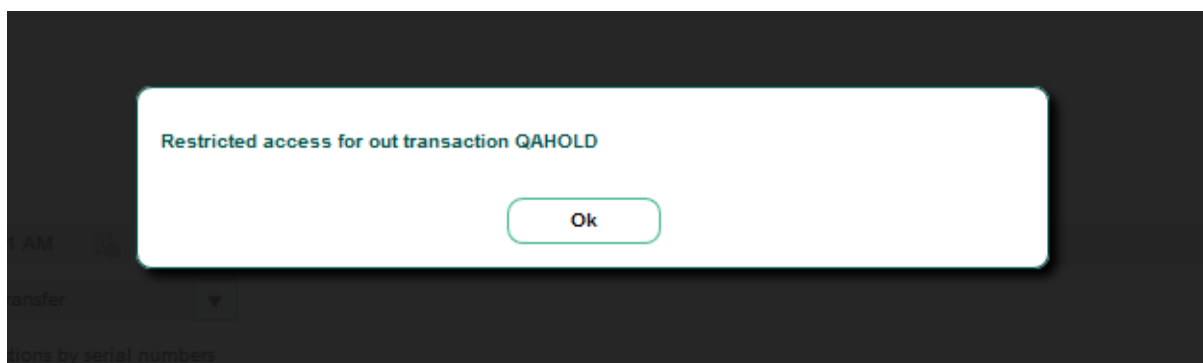
Enter transactions by serial numbers

Transaction Lines

Record Lots and Serial Numbers

Line	* Item	* Subinventory Locator	Source	Destination	* Subinventory Locator	* UOM Name	* Quantity	Reason
1	520-03507	QA HOLD		AA WALT		Each	1	

Click on “Validate “ Button.



The Button will restrict the sub inventory transfer and this sub inventory added in the code to restrict.

The Sub Inventory “RMA “ It’s not included in the code, we can able to do the sub inventory transfer for RMA

GLK_SUB_INV_RESTRICT Tools Refresh Needed Sandbox Mode: Edit

View Editing: User Interface Edit Layer: Site - SITE Manage Configurations

Add Content Select Structure

Create Subinventory Transfer

HTML Markup Validate Cancel

Transaction

Date 3/28/2021 11:21 AM Source

Type Subinventory Transfer

☐ Enter transactions by serial numbers

Transaction Lines

Actions View Record Lots and Serial Numbers Edit Details

Line	* Item	Source	Destination	* UOM Name	* Quantity	Reason
		* Subinventory Locator	* Subinventory Locator			
1	17-0000000016	RMA	AJI STO	6PK	1	

Click on Validate other two button are popup to do the sub inventory transfer.

GLK_SUB_INV_RESTRICT Tools Refresh Needed Sandbox Mode: Edit

View Editing: User Interface Edit Layer: Site - SITE Manage Configurations

Add Content Select Structure

Create Subinventory Transfer

HTML Markup Validate Submit and Create Another Submit Cancel

Transaction

Date 3/28/2021 11:21 AM Source

Type Subinventory Transfer

☐ Enter transactions by serial numbers

Transaction Lines

Actions View Record Lots and Serial Numbers Edit Details

Line	* Item	Source	Destination	* UOM Name	* Quantity	Reason
		* Subinventory Locator	* Subinventory Locator			
1	17-0000000016	RMA	AJI STO	6PK	1	

Click on “Submit: Button.

GLK_SUB_INV_RESTRICT Tools Refresh Needed Sandbox Mode: Edit

View Editing: User Interface Edit Layer: Site - SITE Manage Configurations

Add Content Select Structure

Create Subinventory Transfer

HTML Markup Validate Submit and Create Another Submit Cancel

Transaction

Date 3/28/2021 11:21 AM Source

Type Subinventory Transfer

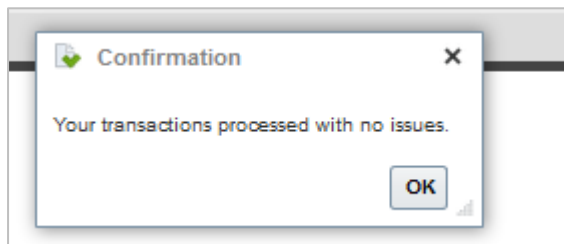
☐ Enter transactions by serial numbers

Transaction Lines

Actions View Record Lots and Serial Numbers Edit Details

Line	* Item	Source	Destination	* UOM Name	* Quantity	Reason
		* Subinventory Locator	* Subinventory Locator			
1	17-0000000016	RMA	AJI STO	6PK	1	

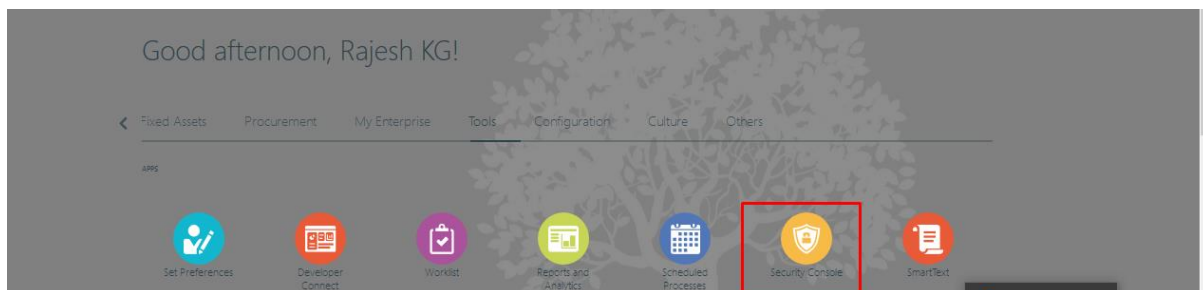
The Transaction shown as success.



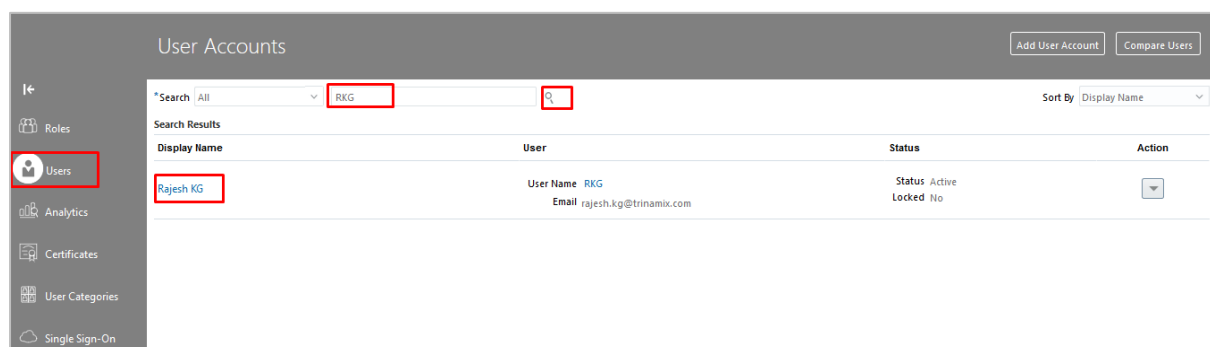
If we add the below role to user then user can do sub inventory transfer for restricted sub inventories.

Here we can add the role to the user.

Tools → Security Console



Select users in left side and enter the user name click on search.



Click on “Rajesh KG”

User Account Details: Rajesh KG

Reset Password Edit Done

User Information

User Category: DEFAULT

User Name: RKG

First Name: Rajesh

Last Name: KG

Email: rajesh.kg@trinamix.com

Account Information

Password Expiration Date: 4/13/2021

☒ Active ☐ Locked

Associated Worker Information

Worker Name: Rajesh KG

Person Number: 101144

Manager: Frederick Capallo

Job: TEMP-Consultant, US

Business Unit: US Operations

Department: 845-Business Systems

Roles

Role	Role Code	Assignable	Auto-Provisioned
------	-----------	------------	------------------

Click on Edit

User Information

User Category: DEFAULT

*User Name: RKG

First Name: Rajesh

*Last Name: KG

Email: rajesh.kg@trinamix.com

Account Information

Password Expiration Date: 4/13/2021

☒ Active ☐ Locked

Associated Worker Information

Worker Name: Rajesh KG

Person Number: 101144

Manager: Frederick Capallo

Job: TEMP-Consultant, US

Business Unit: US Operations

Department: 845-Business Systems

Roles

Add Role Add Auto-Provisioned Roles Remove All Roles

Click on Add Role.

Then Search with " Glaukos Allow%"

User Information

User Category: DEFAULT

*User Name: RKG

First Name: Rajesh

*Last Name: KG

Email: rajesh.kg@trinamix.com

Account Information

Password Expiration Date: 4/13/2021

☒ Active ☐ Locked

Associated Worker Information

Worker Name: Rajesh KG

Person Number: 101144

Manager: Frederick Capallo

Job: TEMP-Consultant, US

Business Unit: US Operations

Department: 845-Business Systems

Roles

Add Role Membership

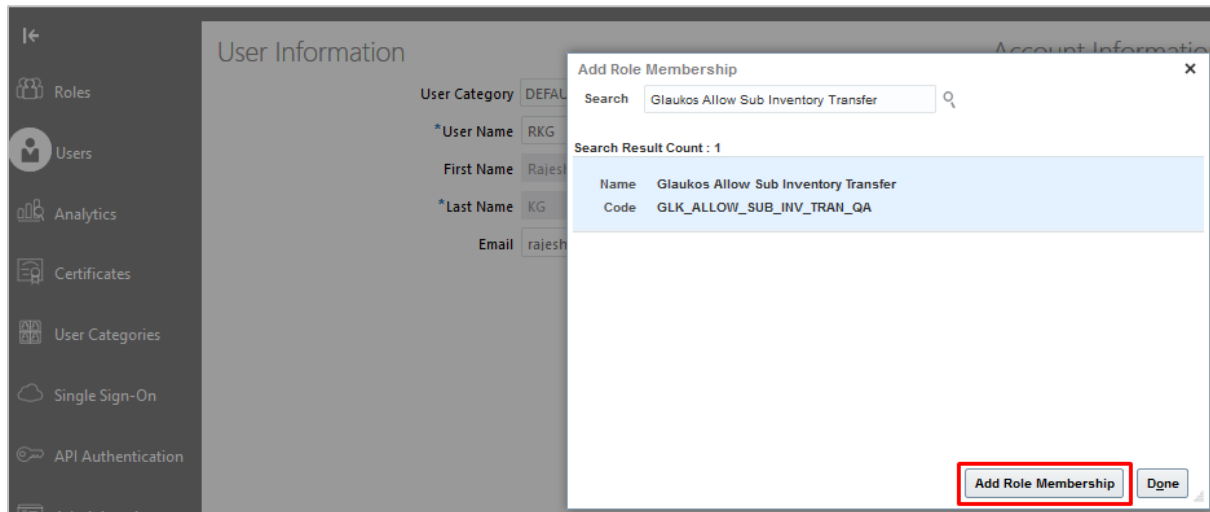
Search: Glaukos All

Search Results: Glaukos Allow Sub Inventory Transfer, GLK_ALLOW_SUB_INV_TRAN_QA

No data to display

Add Role Membership Done

Select role and click on "Add Role Membership".



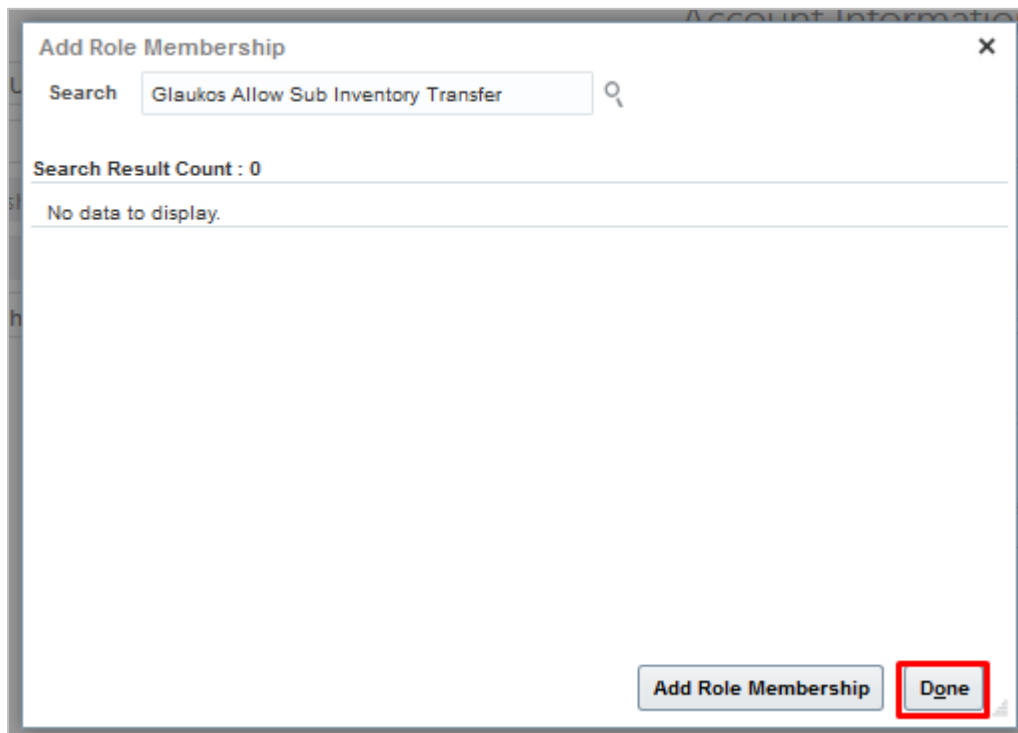
Add Role Membership

Search: Glaukos Allow Sub Inventory Transfer

Search Result Count : 1

Name	Code
Glaukos Allow Sub Inventory Transfer	GLK_ALLOW_SUB_INV_TRAN_QA

Add Role Membership Done



Add Role Membership

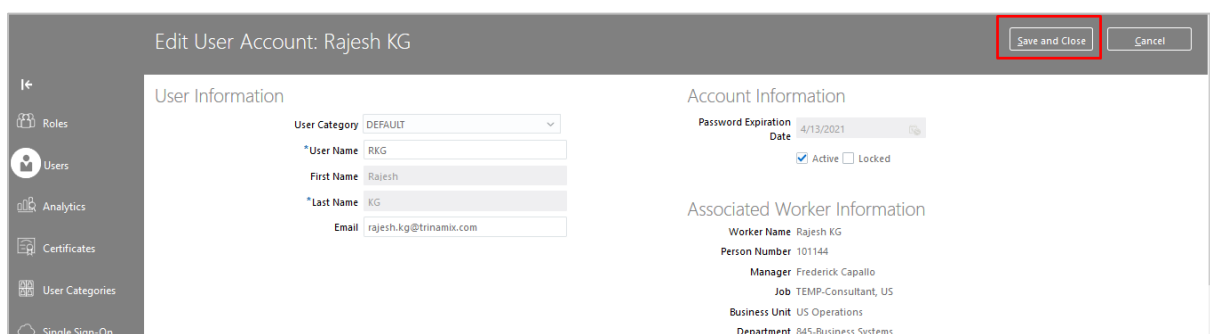
Search: Glaukos Allow Sub Inventory Transfer

Search Result Count : 0

No data to display.

Add Role Membership **Done**

Click on “Done” and click on Save and Close button.



Edit User Account: Rajesh KG

Save and Close Cancel

User Information

User Category: DEFAULT

*User Name: RKG

First Name: Rajesh

*Last Name: KG

Email: rajesh.kg@trinamix.com

Account Information

Password Expiration Date: 4/13/2021

☒ Active ☐ Locked

Associated Worker Information

Worker Name: Rajesh KG

Person Number: 101144

Manager: Frederick Capallo

Job: TEMP-Consultant, US

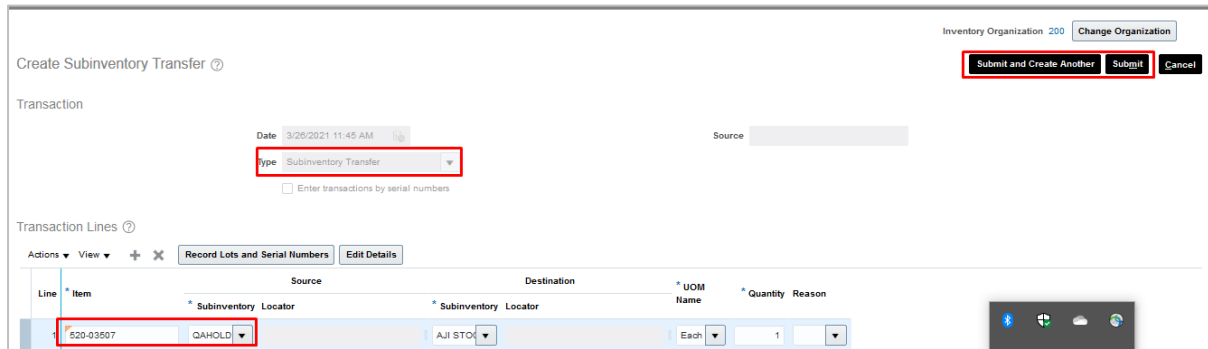
Business Unit: US Operations

Department: 845-Business Systems

The Role is successfully added to the user .

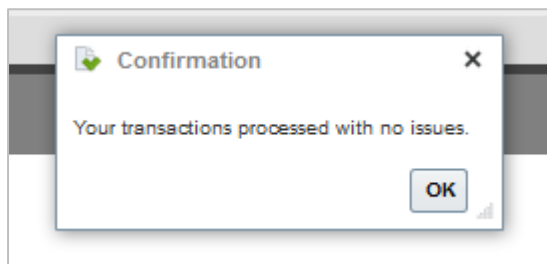
Now user is able to do the any sub inventory transfer without any restriction.

Go to Supply Chain Execution → Inventory management → Task → Create Sub Inventory Transfer.



After adding the role to user the Validate Button is not showing and also allowing to do sub inventory. Click on Submit Button.

Now the sub inventory transfer is completed without any issue.



Click on OK button.

About the Author:



Shravan Donthula is a technical consultant at Trinamix Inc. He has around 10 years of experience as a technical consultant and specialized in the areas of Oracle Cloud, Oracle Applications.

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