Authorization

Introduction
Authorization - process of controlling access and rights to access resources such as computer programs or files.

Why do we need authorization?
In business wise, we have many levels of users and not all users can access/view some important data. For example, only management level can view/see such data like costing or price, so to prevent important data from known by the operation level user(clerk), we need to have authorization to prevent them from seeing this.

Table involve
Authcontrol - main table to set authorization component setting

Column	Description
auth_id	- Primary key **Id** that will represent component - Standard Naming for AuthControl (e.g "THP_ROW_AMOUNT")
auth_page	- Page that will use this authorization - Set as **00000** means will apply to all pages that have authorization id. **Do not** specify any page on this anymore.
auth_nature	**Nature or type** of component

Nature (No.)	Nature/Component type
1	Textbox/Checkbox
2	Selectbox/Listbox
3	Button
4	Hyperlink / Textlink
5	ImageLink
6	Label
7	Row
8	Column
9	Column In List

The **difference between Column and Column In List**

Column **(COL)**	Column In List **(COLLIST)**
Hide <td> - use in transaction list - Sample: <td **{nllauth_COL_xxxxx}**>ABC</td>	**Remove** <td> - use in CC3 listing, report - Sample: <td **{nllauth_COLLIST_xxxxx}**>ABC </td>

|
auth_active	- Indicate by **1 or 0** whether want to set component authorization to be active or not. 1 -> Active, 0 -> Not Active
auth_syntax	- used by listbox nature (refer <u>How To Add Authorization To HTML Page</u> >5. for listbox nature:) - syntax for textbox when listbox set to readonly - eg: <input class="BlueNoteInput" size="30" name="apar_salesman_textbox" id="apar_salesman_textbox" readonly value="{value}" >
auth_newparam	- Additional php codes - for Component=button, when action= Prohibit Add/Prohibit Edit - refer TT17620-Fiamma - Edit SOM bill show save header button for non confirmed status only
auth_multireset	for listbox nature (for floating table)

- loop and replace resetstart and resetend to empty:

{nllauthXXXresetstart0}{nllauthXXXresetend0}
{nllauthXXXresetstart1}{nllauthXXXresetend1}
{nllauthXXXresetstart2}{nllauthXXXresetend2}

auth_desc	● Description
auth_ctrl_user	● 1-> allow **ALL user** to edit this authorization , 0-> only allow support to edit The logic is as below (refer: user_authorization_list_events.php): ● Normal user ONLY can see authorization **auth_ctrl_user=** ● when usermst.user_ctrl_dealer=1 (User> Dealer Active is ticked), only can update authorization **auth_ctrl_user=1 or auth_ctrl_dealer=1** ● when usermst.user_ctrl_support=1 (User> Support Active is ticked), can update all authorization
auth_ctrl_dealer	● 1-> allow **support** and **dealer** to update this authorization, 0-> only allow support to edit
auth_embed	●

Authcontrolmap - table to set setting for each user/role/group by component

Column	Description
authmap_id	● Primary key ● Same with auth_id
authmap_page	● Primary key ● Same as auth_page
authmap_targettype	● Primary key ● Target type group | Target No	Target group	Target person@user/role/login group
---	---	---
1	User	Eg: thanin, hiroshi, wong
2	User role	Eg: administrator, account executive, sales
3	Login group	Eg: user group1, user group2
4	ALL	Apply to all type	
authmap_target	● Primary key ● Number that indicate user@person/group/role
authmap_action	● Action to apply to component 	Action No.	Action Type
1	Deny/Hide
2	ReadOnly
3	Prohibit Add
4	Prohibit Edit
5	Compulsory	

	6	Show
	7	Prohibit edit if not blank
	8	Change To Label

authmap_additional_script	● Additional Javascript codes ● How to use: How To Add Authorization To HTML Page > **6. for Additional Script**
authmap_newparam	● Additional php codes ● for Component=button, when action= Prohibit Add/Prohibit Edit ● refer TT17620-Fiamma - Edit SOM bill show save header button for non confirmed status only

Insert Statement Syntax

E.g : #authorization for Revert button at AR PD Cheque entry page

```
INSERT INTO authcontrol (auth_id,auth_page,auth_nature,auth_embed,auth_active,auth_multireset)
VALUES('INV_ROW_DRIVER','00000','3','0','1','0');
```

*Reminder

- For some authorization, by default is should be ON(eg: action to put like **Hide)**, so what we need to do?

   -> Prepare must_update script for delivery team/Project Manager to run and put inside folder ***dev200812\sql\must_update***

   Eg:

   File name -> ***20081231_PDCheque_REVERTBUTTON_authcontrol_MUSTUPDATE_ver209.sql***

```
INSERT INTO authcontrolmap
(authmap_id,authmap_page,authmap_targettype,authmap_target,authmap_action,authmap_additional_script)
    VALUES   ('INV_ROW_DRIVER','00000','4','0','1',null);
```

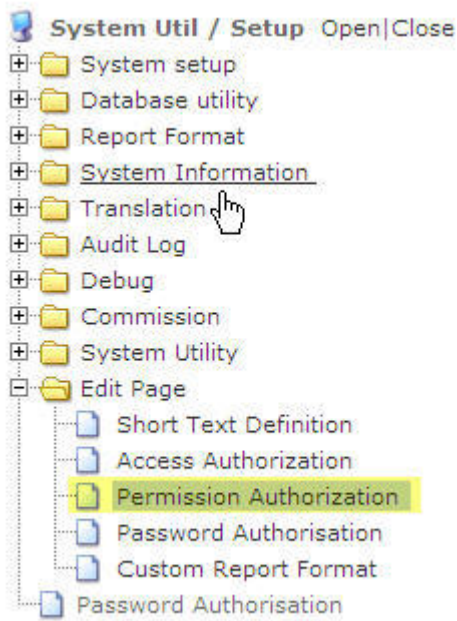- ***Remember*** to run script to nll000 and nll_demo at qc server

Where to set/add in authorization

There are 2 ways to set up this authorization based on your role.

1. *Through setup page/On Permission Authorization (* **For Admin)**

i. _Setup and Utilities->System Util/Setup->Editing Page->Permission Authorization_

ii. Click inside and will show this

Permission Authorization Editing has been turned **Off**

Return to Setup Or Turn Editing On

iii. Click on Turn Editing On, then will show like this

Permission Authorization Editing has been turned **On**

Return to Setup Or Turn Editing Off

iv. Go to page that you want to add authorization,

   eg : Customer bill

   So, you will see * sign where authorization being apply and click on * next to Area wording

v. Next, it will go to add authorization page

vi. If you want to add new target user to this page, click Add New, key in related info and click submit. Done

vii. If you want to add permission authorization across all pages, enter 00000 in the page name, key in related info and click Submit.

*Additional Note: It is also known as setting a global permission,

viii. In order to see the results, you do not need to re-login but you need to turn off the permission authorization. Click on Turn Editing Off.

ix. Then this page will appear.

Priority of Permission Authorization.

The priority of permission depends on whether a specific page.php has a permission setting or not. If there is, then it will be prioritized. If not then it will follow the global permission setting. It does not depend on the types of permission. Eg: Show and Hide permission will not be the determining factor.

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List of Authorization Control

Add New** [1] of 1

Auth Id	Auth Page	Auth Nature	Auth Target	Auth User	Auth Action	
ProductMaster_Search_SupplierROW	00000	Row	ALL USER		Show	← 2nd priority
ProductMaster_Search_SupplierROW	master_productmst_list.php	Row	ALL USER		Show	← 1st priority
ProductMaster_Search_SupplierROW	master_productmst_list.php	Row	User	faye	Read Only	

Add New** [1] of 1

2. If user views any page that has a global permission setting and but that page does not have a specific permission setting, then the global permission setting will have a higher priority.

List of Authorization Control

Add New** [1] of 1

Auth Id	Auth Page	Auth Nature	Auth Target	Auth User	Auth Action	
ProductMaster_Search_SupplierROW	00000	Row	ALL USER		Show	← 1st priority
ProductMaster_Search_SupplierROW	master_productmst_list.php	Row	ALL USER		Show	
ProductMaster_Search_SupplierROW	master_productmst_list.php	Row	User	faye	Read Only	

Add New** [1] of 1

3. If a specific page.php has two permission settings, then the specific Auth_User will have a higher priority than the global permission setting.

List of Authorization Control

Add New** [1] of 1

Auth Id	Auth Page	Auth Nature	Auth Target	Auth User	Auth Action	
ProductMaster_Search_SupplierROW	00000	Row	ALL USER		Show	← 2nd priority
ProductMaster_Search_SupplierROW	master_productmst_list.php	Row	ALL USER		Show	
ProductMaster_Search_SupplierROW	master_productmst_list.php	Row	User	faye	Hide	← 1st priority

Add New** [1] of 1

1.2 Through setup page/On User Permission Authorization (Simplify display For Support) - Started at ver5.08.03
i. **Setup and Utilities->System Util/Setup->Editing Page->User Permission Authorization**

Setup And Utilities

🌐 System Utilities / Setup Open|Close
⊞ 📁 Email Report Setup
⊞ 📁 System Setup
⊞ 📁 Database Utility
⊞ 📁 Report Format
⊞ 📁 System Information
⊞ 📁 Translation
⊞ 📁 Webixs Setup
⊞ 📁 Audit Log
⊞ 📁 Debug
⊞ 📁 System Utility
⊟ 📂 Edit Page
　　● Short Text Definition
　　● Access Authorization
　　● Permission Authorization
　　● Password Authorisation
　　● Custom Report Format
　　● User Permission Authorization
　● Password Authorisation

ii. Click inside and will show this

User Permission Authorization has been turned **Off**

Return to Setup Or Turn Editing On

**This setting will set authorization only on the page itself, will not affect other page authorization

iii. Click on Turn Editing On, then will show like this

User Permission Authorization has been turned **On**

Return to Setup Or Turn Editing Off

**This setting will set authorization only on the page itself, will not affect other page authorization

iv. Go to page that you want to add authorization,
　eg : Customer bill

So, you will see **~** sign where authorization being apply and click on **~** next to Area wording

v. Next, it will pop up authorization page
- when there is no record,show add new page:

- when there is only 1 record,show edit page:

- When there is >1 record, show listing page:

This is a actually Simplified version of permission authorization:

- the authorization set, only will affected only the particular page, for this example, **only page customer bill maint > area** will show for all user, and hide from Account Clerk role
- may refer to TT32980 for more information

2.Through User Authorization add page (For User)

i. **Setup and Utilities->User Setup->Authorization Setting->User Authorization**
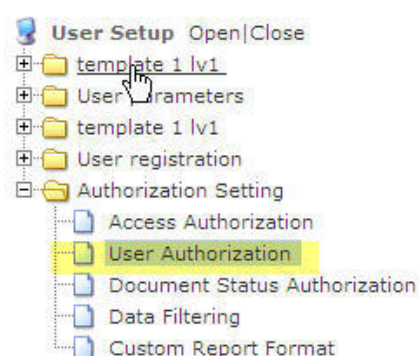
ii. Listing page for authorization, click Add New to add new target authorization

Search Authorization Control

Component ID	
Page	
Nature	Label ▾

Search

List of Authorization Control

Add New 1 of 1

Auth Id	Auth Page	Auth Nature	Auth Target	Auth User	Auth Action
AUTHORIZEDSIGNATURE	inv_rpt_ar_ord_bill_qr1.php	Label	ALL USER		Hide
RES_CALL_CENTER_REG_STATUS	res_call_center_history.php	Label	ALL USER		Hide
YOUR_REF_NO	00000	Label	User	azie	Show

Add New 1 of 1

iii. Adding page/setup page

Add/Edit User Authorization

Component ID	AreaROW ▾ 🔍
Page Name	inv_trn_ar_bil_add.php
Target	User ▾
Target User	azie / azie2 / ika / support2 / support3 > >> < << support1
Action	Hide ▾
Nature	Row
Additonal Script	
Activated	☑

Submit * * Cancel

iv. Key in related info then submit. Done

General Info

Authorization prefix - ***nllauth***
Reset prefix - ***resetstart***
Reset suffix - ***resetend***
If nature is Row, the reset prefix need to put in front of the row else but behind.
Action syntax ->

Action	Syntax
Hide	style=\"visibility:hidden;display:none\"
Read only	readonly
Compulsary	v_req=\"1\"
Prohibit edit	onclick=\"try{if (__isEditMode){this.readOnly=true; }}catch(exp){}\"
Prohibit edit if not blank	onfocus=\"try{if (this.nonBlankCheckRun!='1'){this.nonBlankCheckRun='1';if (Trim(this.value)!=''){this.readOnly=true;}} }catch(exp){}\"

Nature and action that can be apply

Nature	Action
Textbox/Checkbox	Hide, Readonly, Compulsary, Prohibit Edit, Prohibit Edit If Not Blank
Selectbox/Listbox	Hide, Readonly, Compulsary ,Prohibit Add
Button	Hide, Prohibit Add, Prohibit Edit
Hyperlink	Hide, Readonly, Show
Imagelink/Label	Hide, Show
Row/Column	Hide
Column In List	Hide, Show

Common Problem

1. Set wrong nature/type

Example

Example of nature and where it been apply

Id	Nature	Example Page
HIDE_COST	Textbox	master_productmst_maint.html
PRODUCTMST_SUPPLIER_COMPULSARY	Listbox	master_productmst_maint.html
ADDMASTER	Button	master_productmst_maint.html
ADDMASTERLINK	Hyperlink	master_storemst_list.html
DELETEMASTERLINK	Imagelink	master_productmst_list.html
YOUR_REF_NO	Label	inv_trn_ar_ord_list.html
AreaROW	Row	inv_trn_ar_bil_add.html
PDSourceCOL	Column	acc_pcheque.html
COLLIST_Brand	Column In List	master_productmst_list.php

- Textbox ->
  Before

  After apply authorization - *Hide*

  Before

  After apply authorization - *Read Only*

- Listbox ->
  Apply apply authorization - *Compulsary*

Windows Internet Explorer

⚠ ERROR ALERT!!
Invalid selection
Value require

OK
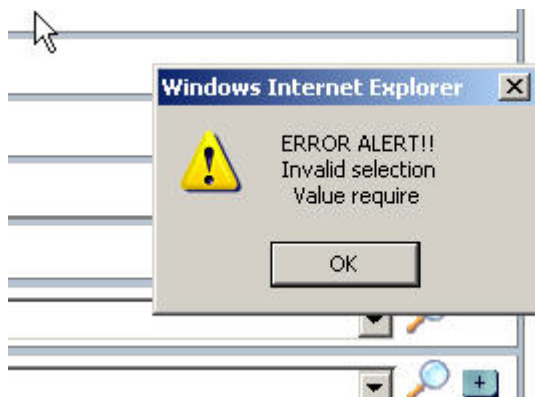
- Button
  Before

Product Job	Select Value ▼ 🔍 ⊞
Product Task	Select Value ▼ 🔍 ⊞
	Reset **Add** Cancel

After apply authorization - *Hide*

Product Job	Select Value ▼ 🔍 ⊞
Product Task	Select Value ▼ 🔍 ⊞
	Reset Cancel

- Hyperlink
  Before

List of Store

| Add New 1 of 15 >> >| |
| **Code** **Name1** |
| 🔲 806 | 806 cheras |

After apply authorization - *Hide*

List of Store

| 1 of 15 >> >| |
| **Code** **Name1** |
| 🔲 806 | 806 cheras |

- Imagelink
  Before

List of Product

| Add New Update Select |
| **Code** |
| 🔲 📥 🌐 1 |
| 🔲 📥 🌐 41510W-10 |
| 🔲 📥 🌐 41510W-7 |
| 🔲 📥 🌐 41510W-8 |

After apply auhtorization - *Hide*

List of Product

| Add New Update Selectio |
| **Code** |
| 📥 🌐 1 |
| 📥 🌐 41510W-10 |
| 📥 🌐 41510W-7 |
| 📥 🌐 41510W-8 |
| 📥 🌐 41510W-8.5 |

- Label ->
  Before

List of Customer Order

	Module	Doc. Type	Record No.	Reference No.	Our Ref No.	Your Ref No.	Date	Customer	Reference No2.	Reference No3.	Store
	AR	SO	17	SO 0016	oref2356	yref11112	05/12/2008	ARR06			806
	AR	SO	16	SO 0015	oref2356	yref11112	03/11/2008	ARR02			806

  After apply authorization - *Hide*

List of Customer Order

	Module	Doc. Type	Record No.	Reference No.	Date	Customer	Reference No2.	Reference No3.	Store	Notes	User	Modified User
	AR	SO	17	SO 0016	05/12/2008	ARR06			806		azie	azie
	AR	SO	16	SO 0015	03/11/2008	ARR02			806		azie	azie

- Row ->
  Before

  After apply authorization - *Hide*

- Column ->
  Before

  After apply authorization - *Hide*

- Column In List
  Before

After apply authorization - *Hide*

Development Concern:

Link to [Standard naming for authcontrol](#)

Link to [How To Add Authorization To HTML Page](#)

Link to [How To Add Authorization To PHP Page](#)