



TUTORIAL KREO HMI Priority based user management (levels)

Tutorial dedicated to the implementation of the user management based on user levels and priorities

Connect
Ideas.
Shape
solutions.

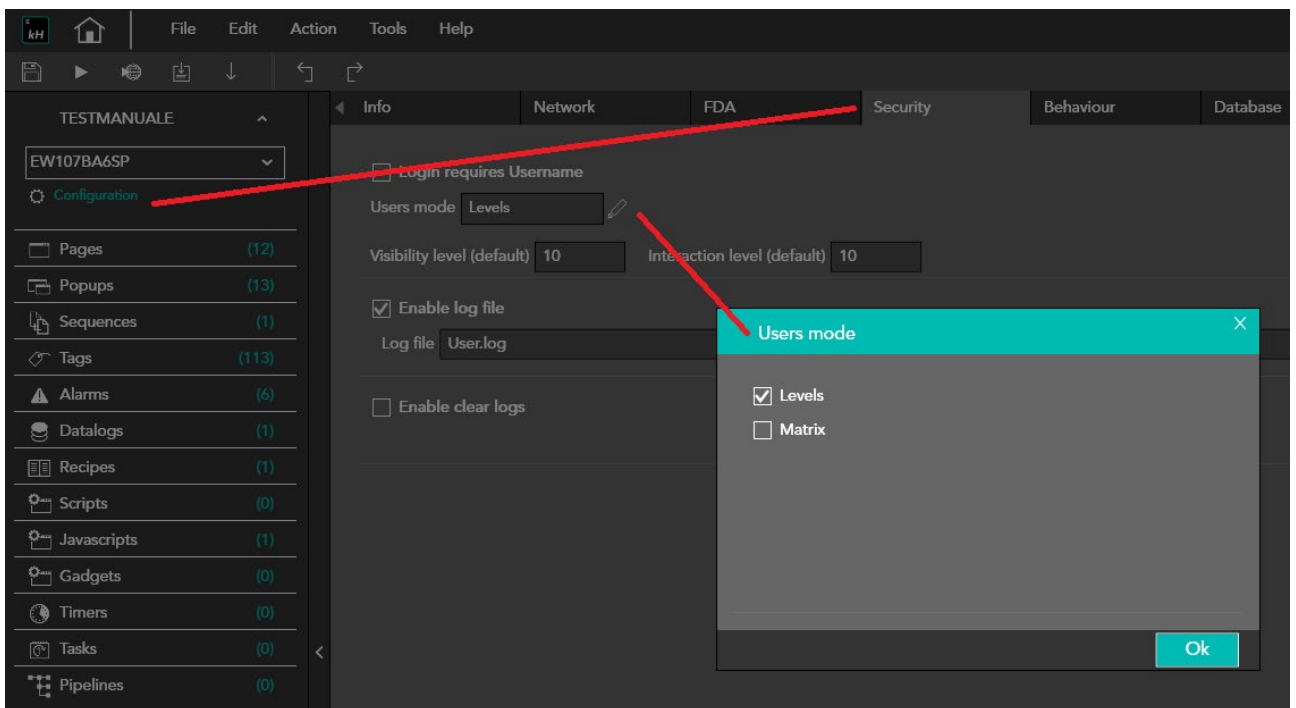


Introduction

In KREO HMI projects it is possible to define different levels of security to filter accessibility to the different pages, graphic objects and functions.

There are two different alternative approach:

- Levels
- Matrix



How to do:

In level mode the two main parameters that differentiate the use of protected objects are the VISIBILITY LEVEL and INTERACTION LEVEL.

These two levels define "who can see" the objects and "who can use them".



1) Let's configure 4 access levels with layers as in the figure below and their passwords.

	Name	Description	VisibilityLevel	EnabledLevel	CanLockUsers	CanBeUnlocked
1	Administrators		1	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Users		10	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Engineer		3	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Technician		6	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5						
6						
7						
8						

Each GROUP has the same level of VISIBILITY and INTERACTION.

2) Each of these four groups is made of users having their own passwords:

	User name	Description
1	TECH1	
2	TECH2	
3	TECH3	
4		
5		
6		
7		
8		
9		
10		
11		
12		
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24		
25		
26		
27		
28		

Events

Name: Technician

Description: [Empty]

VisibilityLevel: 6

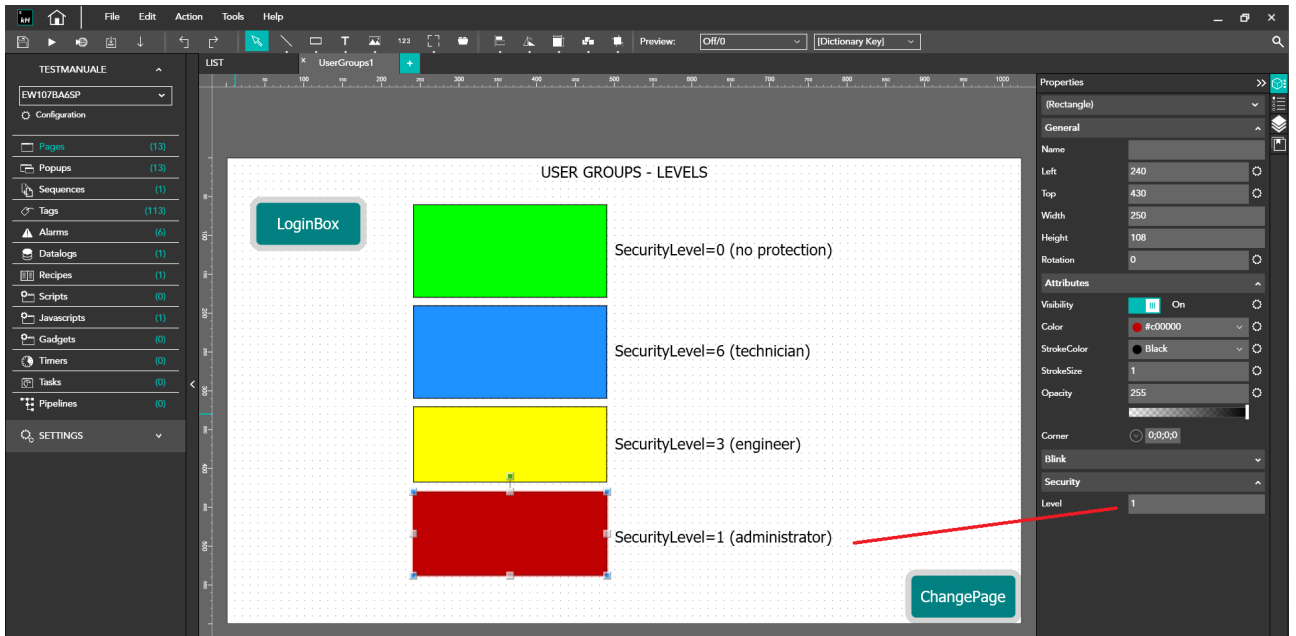
EnabledLevel: 6

Lockable users

Can be unlocked

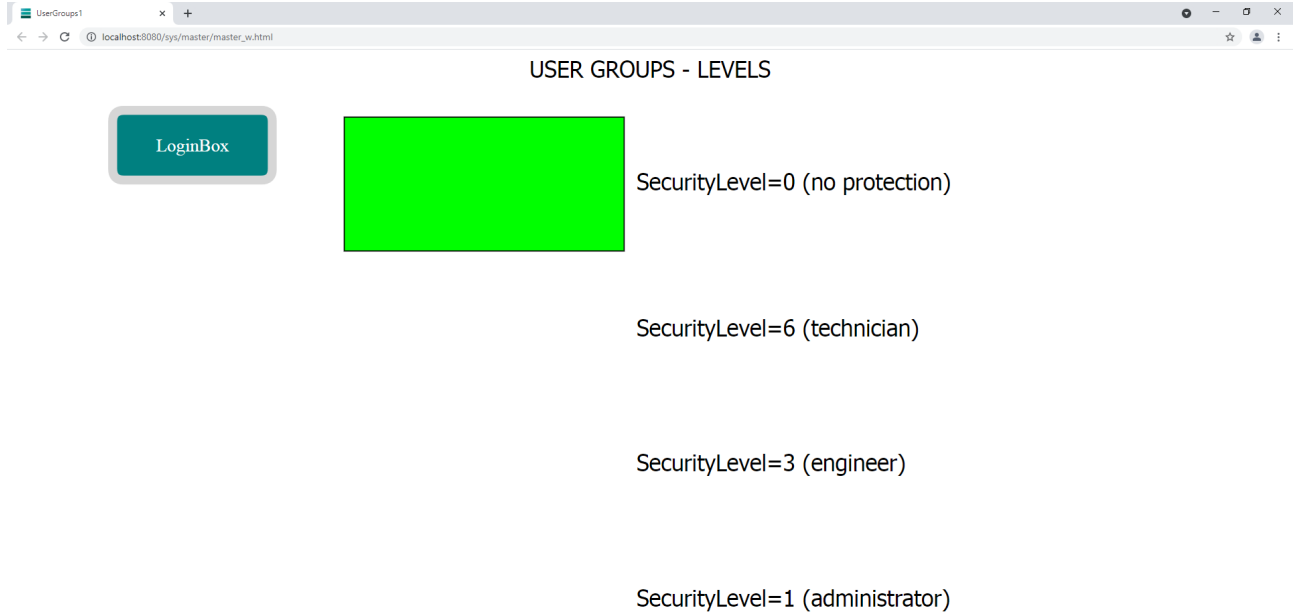


3) Let's define some objects and pages protected by different security LEVELS:



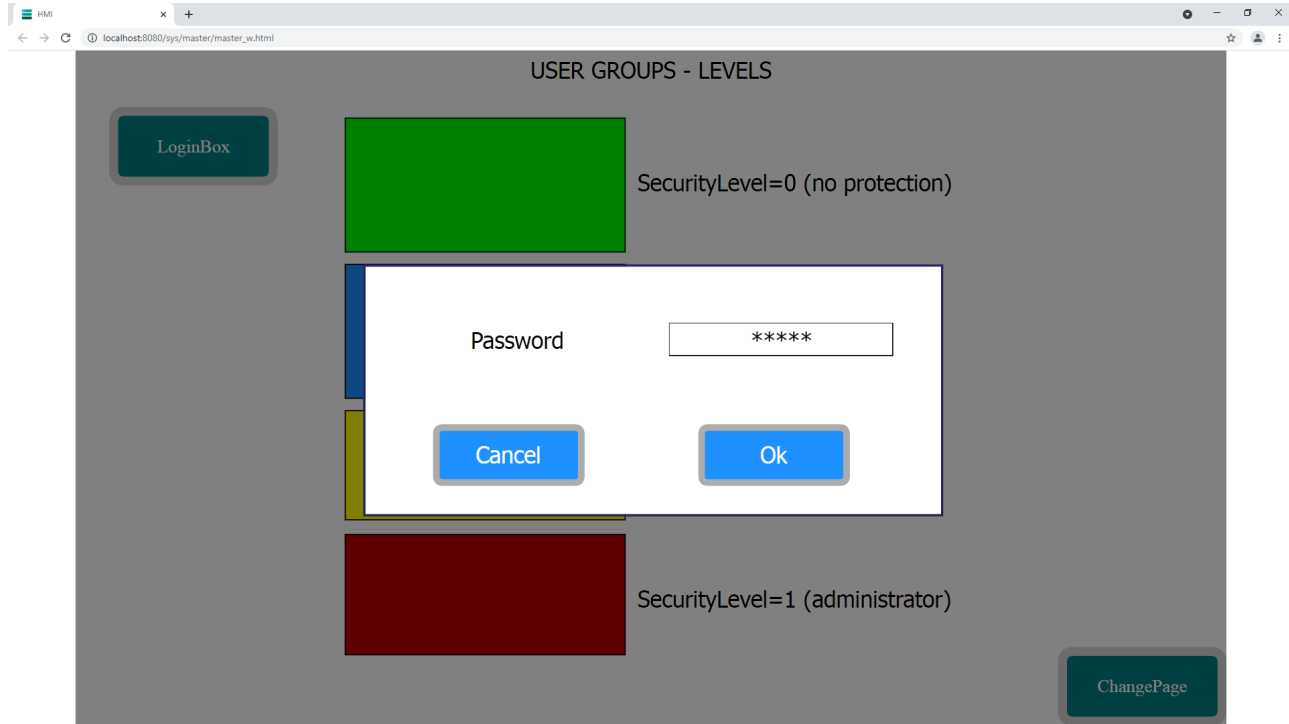


4) When the RUNTIME starts, only the green BOX (no-protection) will be visible.





5) The LOGINBOX button will allow you to log in and see the different objects based on the user level

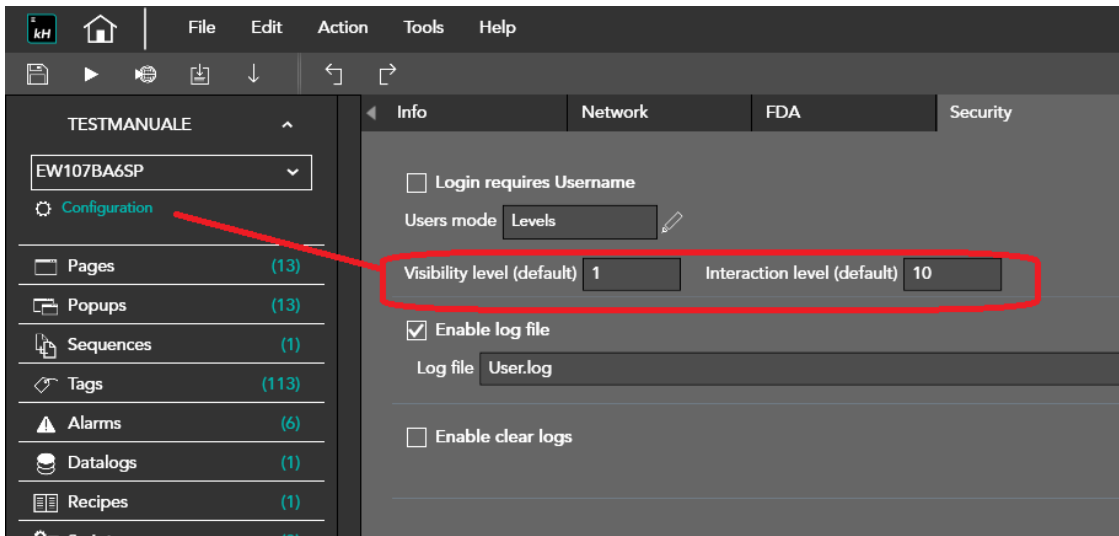




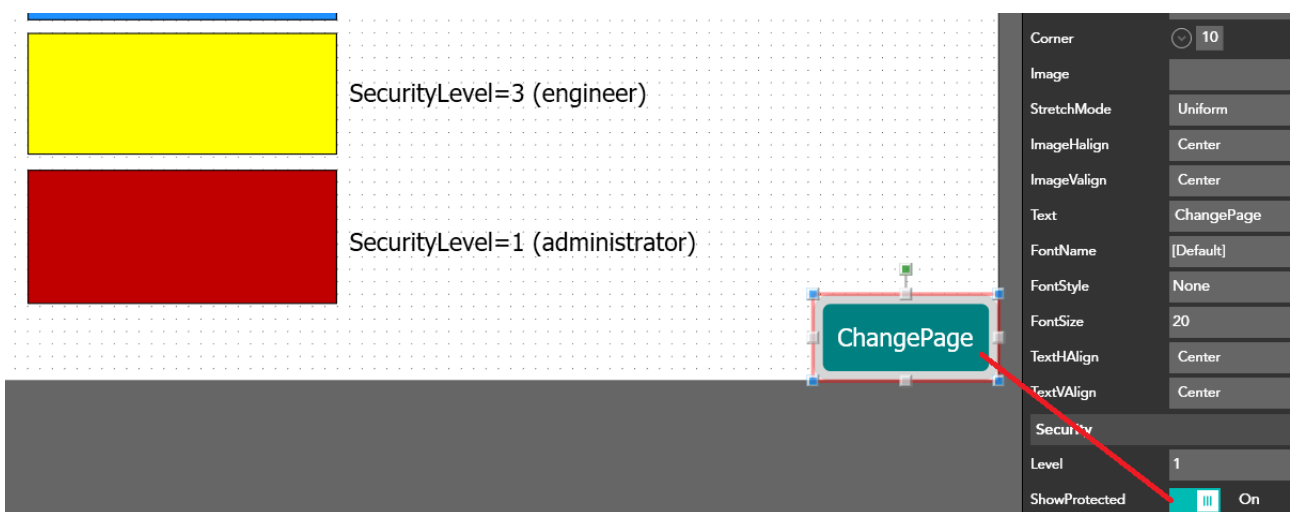
Note: A classic use of the protected objects is when the objects are all visible to the operators but can be used based on the logged in operator level.

In this case it is possible to set the LOGIN-DEFAULT function with VISIBILITY = 1.

The project will start with LOGIN-DEFAULT which will still allow you to see all the objects (VISIBILITY =1).



Visible but protected objects can be highlighted with a padlock setting the property named SHOWPROTECTED.





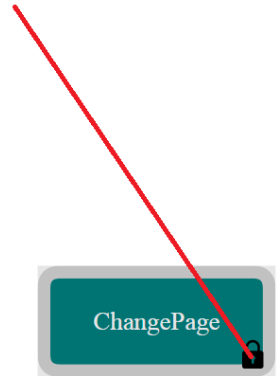
The result will be as below:



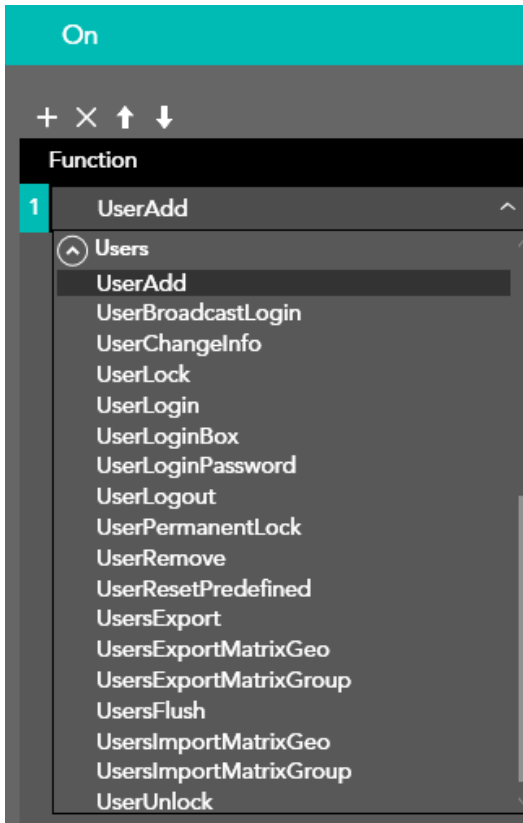
SecurityLevel=3 (engineer)



SecurityLevel=1 (administrator)



USERS Built-in FUNCTIONS Table





UserGroupSEVENTable:

Events		>>	☰
OnStart	None		
OnFdaError	None		
OnActivityOn	None		
OnActivityOff	None		
OnStop	None		
OnError	None		
OnAnyUserLogin	None		
OnAnyUserLogout	None		
OnAnyUserLoginError	None		
OnAnyUserInfoChanged	None		
OnAnyUserCreated	None		
OnAnyUserDeleted	None		
OnAnyUserLocked	None		
OnAnyUserUnlocked	None		
OnUsersReset	None		



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