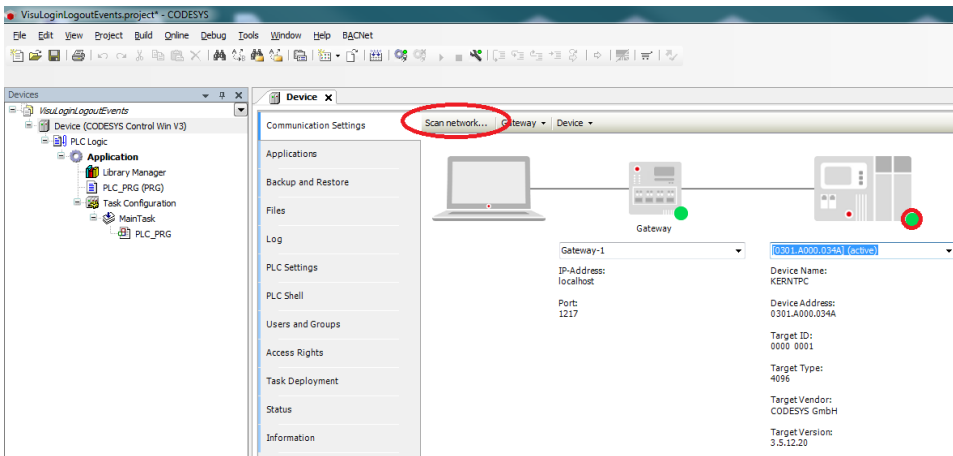
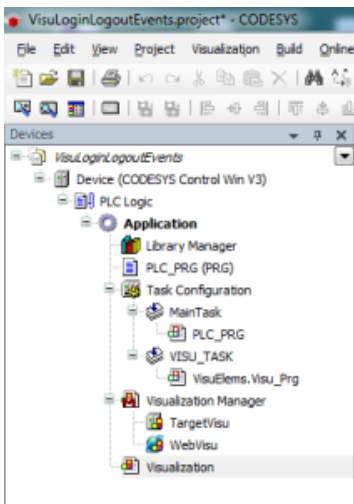


# Visu: Using Events of the User Management (Login/Logout)

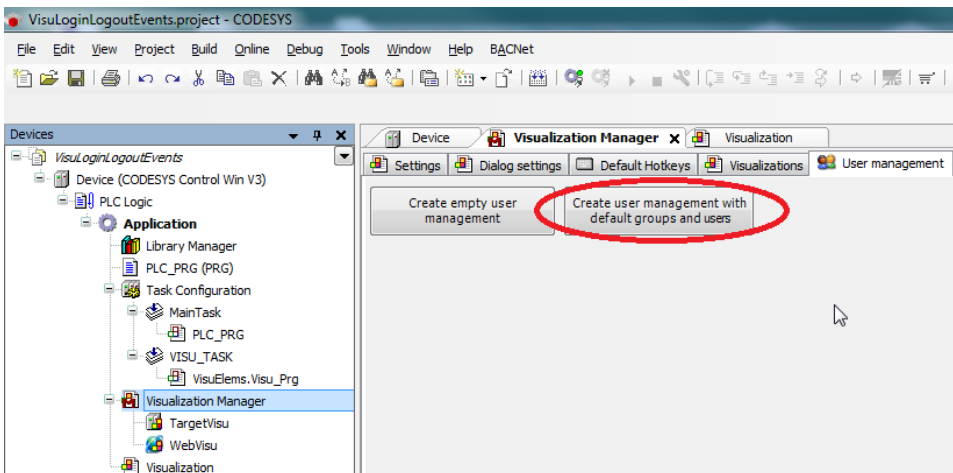
- Create a "Standard project" and select *CODESYS Control Win V3* as the device.
- Define the target system by means of the *Network scan*.



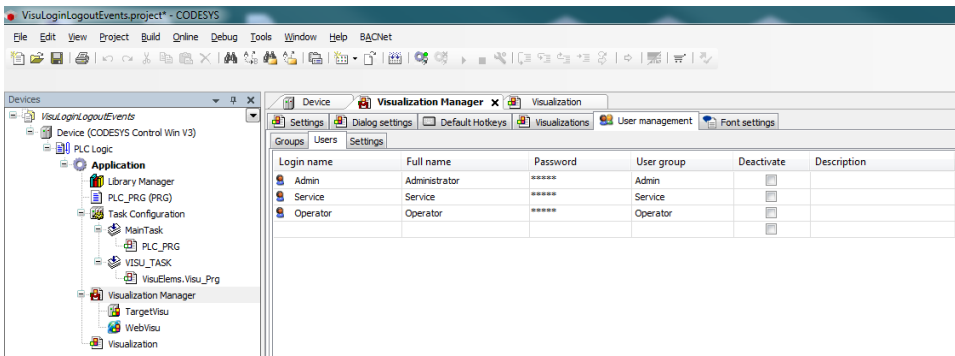
- Insert a visualization in the device tree. Then the *Visualization Manager* is inserted automatically with the visu types *TargetVisu* and *WebVisu*. In addition, a *VISU\_TASK* is also created automatically.



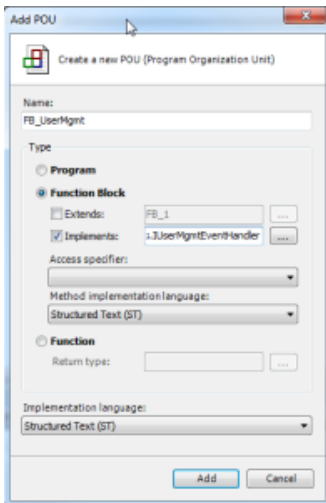
- Create a user management in the *Visualization Manager* with the default groups and users.



Then adapt the passwords of the users:

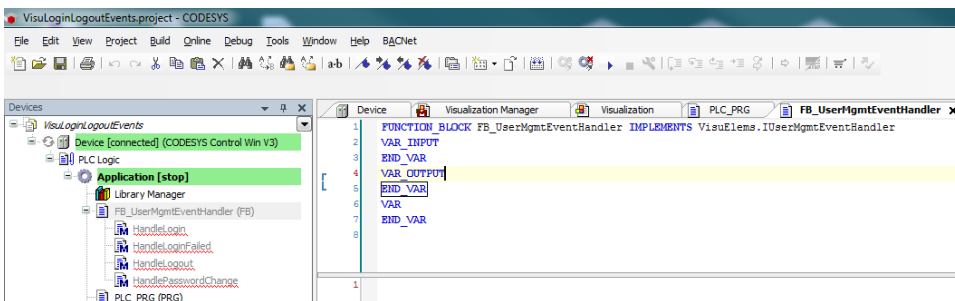


- Create a new FB named *FB\_UserMgmtEventHandler* and implement the *VisuElem.IUserMgmtEventHandler* interface.



The following methods are created automatically with the FB:

*HandleLogin*  
*HandleLoginFailed*  
*HandleLogout*  
*HandlePasswordChange*



- Adapt the *FB\_UserMgmtEventHandler* function block as follows:

#### Declaration

```

FUNCTION_BLOCK FB_UserMgmtEventHandler IMPLEMENTS VisuElem.IUserMgmtEventHandler
VAR_INPUT
END_VAR
VAR_OUTPUT
END_VAR
VAR
    udiHandleLogin          : UDINT;
    udiHandleLogout        : UDINT;
END_VAR

```

- Adapt the [HandleLogin](#) method as follows:

#### Declaration

```
(* This method will be called when a login to the visu user management is performed
:return:
TRUE  - When the handler has handled this event and it should not be handled by someone else
FALSE - When the event is not handled by this handler*)
METHOD HandleLogin : BOOL
VAR_INPUT
    (* A pointer to the client structure where the event occurred.
    The name of the user, that logged in, is stored in pClient^.GlobalData.CurrentUserName*)
    pClient      : POINTER TO VisuElems.VisuStructClientData;
END_VAR
```

#### Implementation

```
udiHandleLogin := udiHandleLogin + 1;
```

- Proceed in the same way with the [HandleLogout](#) method.
- Make sure that the [VisuElems](#) prefix is also used in the [HandleLoginFailed](#) and [HandlePasswordChange](#) methods; and that the line "{warning 'add method implementation '}" is deleted.
- Adapt the POU [PLC\\_PRG](#) as follows:

#### Declaration

```
VAR
    fbUserMgmtEventHandler      :      FB_UserMgmtEventHandler;
END_VAR
```

- Assign the EventHandler to the visualization as follows.



#### Versions < V3.5.SP10

In old versions, the following approach is not possible, because the assignment of a program from the visualization manager was not possible.  
For these versions, an initialization must take place in the program code.

Create a new POU of type "Program". Name it [VisuInit](#), for example, and adapt the program code as follows:

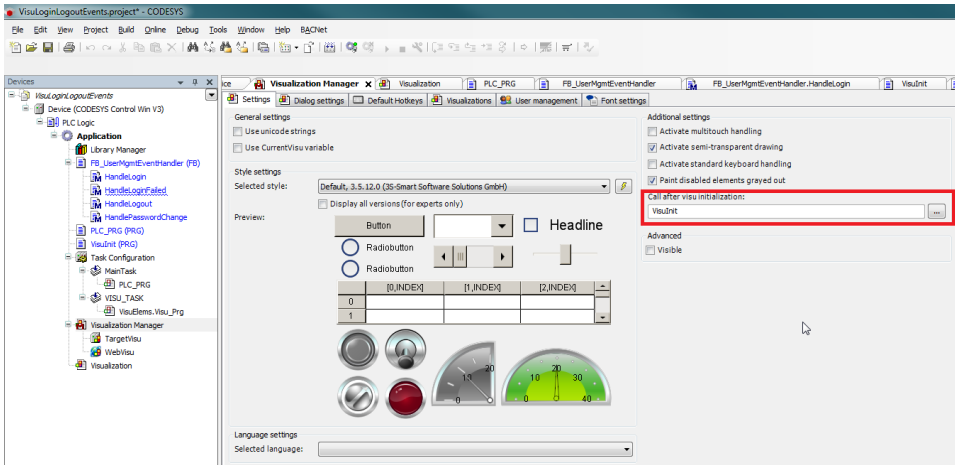
#### Declaration

```
PROGRAM VisuInit
VAR
END_VAR
```

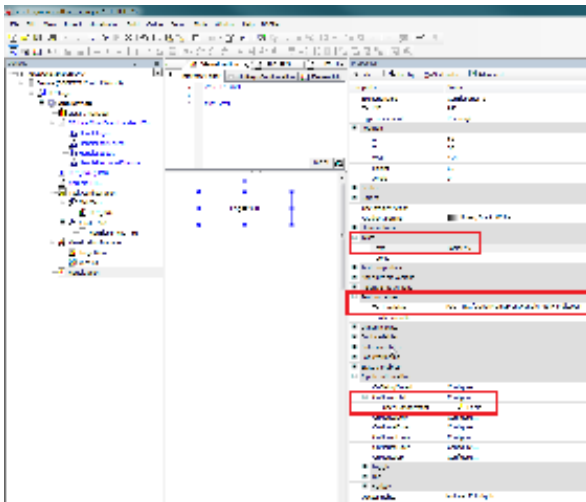
#### Implementation

```
VisuElems.Visu_Globals.g_VisuEventManager.SetUserMgmtEventHandler(PLC_PRG.fbUserMgmtEventHandler);
```

Assign the *Visulnit* program to your project as the start procedure within the *Visualization Manager*:



- Open the *Visualization*, add a box, and assign the following properties to it:



- Repeat the steps as for a button for logging out.
- Load the project to the controller and start it.  
The variables are increased at each successful "Login" and "Logout".

Login: 1

Logout: 1

Login

Username:

Password:

Ok

Cancel