Screen change through device

1. Summary

Although a switch is often used for changing a screen, in cases that users want to change screens from PLC or they would like to be informed of current screen numbers, at this time screen change function though device can be applied as easy and convenient way.
Even if the screen change takes place through its switch, the device will be operated and display current screen numbers.

For your understanding, execute the sample data called 'screen change through device. xpd' from XP-Builder.

2. Making screen date

(1) Select 'Project Property Setting' from the menu.

(a) Select Project Property Setting

(2) Select 'Screen Change' under the project property.

(a) Select 'Screen Change' tab.

(b) Check 'Use Change device'

(c) Enter a device after selecting 'Base Window'

(3) Make several screens.

(4) Place numeric inputs on screen.

(5) Place word switches on the screen as below.

(a) Enter the same address with (2).

(b) Select 'Set' under action type.

(c) Enter a screen number which you desire to change

3. Verify through simulations

Select this icon from this XP-Builder's toolbar .
If there were errors in data screen, the following message will be displayed.

In case of no error, the simulator will be operated.

By pressing a word switch, the selected screen will be displayed.

4. User tips!

☞ Contact point output using scripts under screen changes

There is a drawback to screen change operations in PLC which requires additional contact point outputs in order to process word values in the program. Thus using global script functions can minimize program loads when monitoring screen change devices values from PLC solely.

First, write scripts as below.

```
unsigned int page;  //Creat temporary variable called page
page=@[W:HW0];  //Save the device value for the screen change to temporary variable
if(page==1){        //In case of no.1 screen
    @[X:HX0]=1;    //This contact point outputs 1
    @[X:HX1]=0;    //Others output 0
    @[X:HX2]=0;
    @[X:HX3]=0;
    @[X:HX4]=0;
    @[X:HX5]=0;
}
else if(page==2){    //In case of no.2 screen
    @[X:HX0]=0;
    @[X:HX1]=1;     //This contact point outputs 1
    @[X:HX2]=0;     //Others output 0
    @[X:HX3]=0;
    @[X:HX4]=0;
    @[X:HX5]=0;
}
else if(page==3){     //In case of no.3 screen
    @[X:HX0]=0;
    @[X:HX1]=0;
    @[X:HX2]=1;      //This contact point outputs 1
    @[X:HX3]=0;      //Others output 0
    @[X:HX4]=0;
    @[X:HX5]=0;
}
else {                //In case of other screens
    @[X:HX0]=0;
    @[X:HX1]=0;
    @[X:HX2]=0;
    @[X:HX3]=1;
    @[X:HX4]=1;
    @[X:HX5]=1;
}
```

Arrange global script settings as below from 'Project Property → Global Script Settings'.
It is a way to process scripts during periodic check-ups when device values for the screen change were changed.

After selecting the written script under its setting, choose a bit device which is On/Off periodically.
Above arranged HS0.7 is On/Off every second and an internal flag in XGT Panel.