The Application Note is pertinent to our CTIU Family Range

Creating a Power-Up Splash Screen with the CTIU Operator Interface Unit

It is sometimes desirable to offer a special screen that appears at each power-up cycle on an HMI Operator screen before going to a Main Operators screen. This application note will outline a procedure to allow you to create a customized *Splash* Screen such as the one shown below:

In order to create a Power Up Splash screen, you will need the CTIU Configuration program. This method can be used on any CTIU except the CTIU50 series, as it does not support the Math functions.

The CTIU configurator can be downloaded from our website at or by clicking on the link below:

http://www.emersonct.com/download_usa/software_drives.htm
The CTIU has the ability to create internal programs in what is called the Maths area.

The Maths area can be invoked by clicking on the following icon:

![Maths Editor](image1.png)

This will cause the Maths Editor list to appear:

![Maths Editor](image2.png)
There is an internal System Register area which can be referenced within this Math area.

Since the Current Display page (%SR01) is designated R/W (read/write), we can create a Splash Screen on any screen and refer to that page for a duration upon power-up. I would suggest making the Splash screen the last screen within your CTIU screen list.
If you wish to test this, make a Main Customer screen on Page 1 and perhaps another screen on page 2, then make your Power-Up Splash screen on page 3.

My Splash Screen

Perhaps Flash this line for more attention

Now we just need to create a small program that runs upon power-up to display this screen for a few seconds then displays the normal page 1, after that the program would go dormant. We can do this with the Maths Editor.

Click on the Clock icon which opens the Background Function selector.
For our Splash function, we need to activate a Background function and direct it to activate upon Re-Start.

Arbitrarily, we can tell this Background function to go to line 4 upon power-up and execute some code.

Since what we want to do is to make the Display page register %SR0001 to be set to a 3 (for page 3 where the Splash screen is located) we would click on the = or assignment Math function.
This would result in the following:

It would be best to insert a comment on that line for future reference.
Then for line 5 click on the Flow Control icon.

Select the PAUSE function and enter the Splash screen duration.
The resultant bit of code to perform the Splash screen control is shown below:

```
1
2
3
Make the Splash screen appear
4 %SR0001 = 3
5 Pause 8.0 Seconds
6 Go back to screen 1 - the main customer screen
7
8
9
```

This completes the code that will execute on power up and go dormant thenceafter.

Other applicable Application Notes for CTIU can be obtained by clicking on the links below:

- **CTAN246**  Creating Unidrive PopUp Fault Screen
- **CTAN247**  Creating a Fault History Screen
- **CTAN248**  Creating PopUp Fault Screen using Maths

### Questions ??   Ask the Author:

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