



GENESIS64

Multitouch Support



APPLICATION NOTE

October 2015

Description: Guide to using Multitouch in GENESIS64.

Introduction

As touchscreen technology becomes more prevalent in control room it has becoming more important to be able to utilize this technology in SCADA systems. We have integrated Multitouch support into our product. These concepts and controls are part of GraphWorX64. The three types highlighted in this Application Note are:

- Simultaneous Control
- Safe Touch Zone
- Pivot Screens

In this Application Note, we will go over the basic functionality and some useful tips for these controls and concepts.

Simultaneous Control

Simultaneous control provides the user with a capability which would not be present with a mouse and keyboard. Now a user can, for example, close a fill valve while they are opening a dump valve.

Let us explore the concept of Simultaneous Control through an example:

1. Start GraphWorX64 from the **Start Menu**.
2. Select or create 2 slider controls in your display. You may want to use symbols from Symbol Library - _General – Buttons, Knobs, Sliders.
3. In the Explorer, expand the slider group and select the dynamic object.

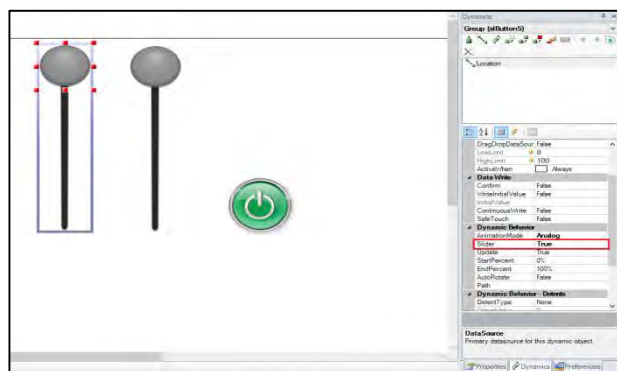


Figure 1 – Creating Sliders

4. Under the section **Dynamic Behavior** change **Slider** property from false to **true**. **Dynamics Behavior** section can be found under the **Dynamics** tab.
5. Repeat steps 3 and 4 for the other slider.
6. Enter **Runtime** mode and try moving both sliders at the same time.

Safe Touch Zone

One of the biggest concerns with touchscreen technology is accidental user input. A person could cause a lot of damage by carelessly running their hand across the screen. A Safe Zone removes this concern. The Safe Zone is a button in the display that must be touched in order to allow a user the ability to manipulate controls.

Let us explore the Safe Zone through an example:

1. Start GraphWorX64 from the **Start menu**.
2. In the work area, create an object you want to add **Safe Touch Zone** to.
3. With the object selected, navigate to the **Dynamics** tab in the **Ribbon Bar**.
4. Click on the more options arrow to the right of the **Pick Action** and select **Safe Touch Zone** option.



Figure 2 – Safe Zone Object

5. Create a button or slider that you would like to have locked.



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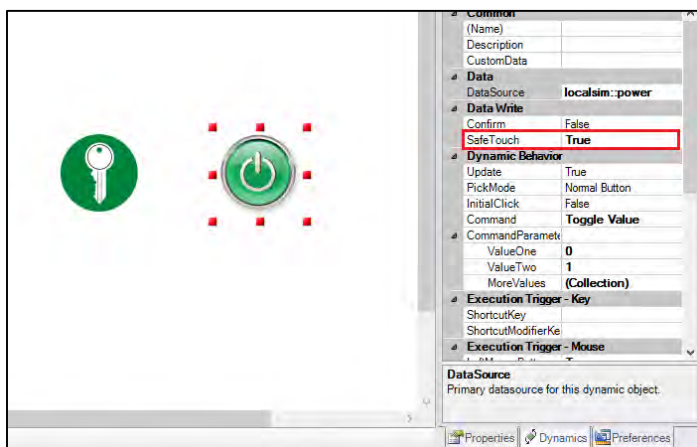


Figure 3 – Safe Zone Example

- Under the section **Data Write** change **SafeTouch** property from false to **true**. **Data Write** section can be found under the **Dynamics** tab.
- Enter **Runtime** mode and try click your button or slider with and without touching your **Safe Touch Zone**.

Pivot Screens

Pivot Screens allows the user an intuitive way to control and navigate objects in the display. Using basic swipe gestures the user can move through information and effortlessly.

Let us explore the Pivot Screens through an example:

- Start GraphWorX64 from the **Start menu**.
- Select **Controls** and then the **Pivot Control**.

- Click and drag** anywhere on the display to create a new Pivot control.
- Under the Pivot Control tab, click on the **Add Page** button in the ribbon menu and add 2 pages.
- Drill down the bottom pivot item's **Layer**. **PivotControl** → **Pivot Item** → **Layer**.

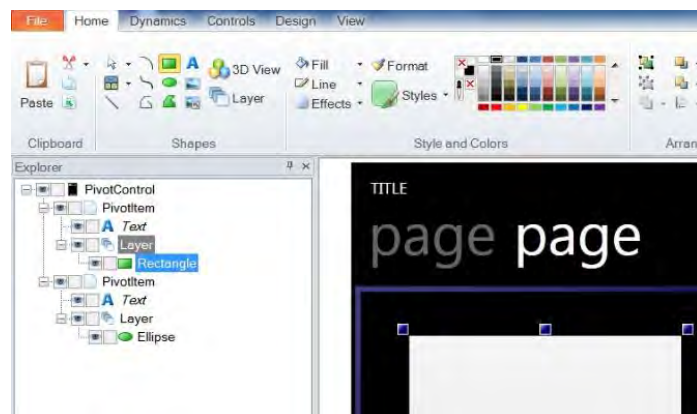


Figure 4 – Pivot screen example

- Select a rectangle from the Home tab and create a rectangle in the pivot control.
- Drill down the top pivot item's **Layer**. **PivotControl** → **Pivot Item** → **Layer**.
- Select an ellipse shape from the Home tab and create an ellipse in the pivot control.
- Enter **Runtime** mode and try to swipe between the pages.