Opendiem Training

Exercise 6

Opendiem-TRN-0006

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OPENDIEM TRAINING EXERCISE 6

Exercise 6 – Building Opendiem SmartComponents

Introduction

This exercise is an introduction to creating Opendiem SmartComponents. A SmartComponent is a pre-defined object which can have intelligent associations with the data and is a powerful feature of Opendiem that compliments the graphics and allows complex screens to be quickly and easily designed.

SmartComponents are linked rather than added to the screen and loaded dynamically when the screen is being viewed. If changes are made to a SmartComponent on the disk then these changes will be reflected on all screens that use that object.

The power behind the SmartComponent is the ability to give it intelligence. A SmartComponent can be associated either with a single variable or a set of variables, such as different variables on a single controller even different variables on multiple controllers of a complete sub system.

Objective

In this exercise you will create an Opendiem SmartComponent for adjusting setpoints that is automatically associated with the LONMark type SNVT_temp_p.



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Re-opening the project in Opendiem Designer

Exercise Instructions

Ensure that Opendiem Manager is running on your Opendiem Server and if necessary restart it.

If necessary, re-open the previous project using Opendiem Designer. Your screen should look similar to the one below.



We will create a SmartComponent to represent a menu navigation system that can appear on each screen.





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Place buttons and text, along with all the required click Actions for the menu system on an Opendiem screen. Pay careful attention to the size and alignment of the individual items. All components must be on the same layer.

Select all components of the menu system by dragging around them with the selection tool. Right click on the selected group of components and choose Object > then Create SmartComponent from the context menu.



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Dose Heip Dear Heip Multi Server System	
Design Substitution Documentation Image: Market and Market	✓ Zoom = 100% (312,204)

This will open the Smart Component Wizard

Create Smart Component		
	Start Welcome to the SmartComponent and Template Wizard This wizard will take you through creating a new Altitude SmartComponent or screen Template that may be used in any Altitude project.	Select SmartComponent. Click Next>
opendiem	Component type: C Screen Template	
building clouds	Click on the 'Next' button to move onto the next screen. Click on the 'Cancel' button at any time to cancel this wizard.	
Can	cel Kack Next > Finish	



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Create Smart Component	Component Component properties The Title property is used to identify the Component when selecting it from the list of avaiable objects. [Navigation Menu01] The File Name is used for storing the Component on the disk in the SmartComponent Library. [Navigation Menu01]	Enter a Title for the SmartComponent e.g. Navigation Menu01. Click Next>
	cel < Back Next > Finish	
Create Smart Component	Hints Enter a hint that will be displayed when this Component is placed on a screen. Hint Title: Navigation Menu01 Hint: Upper navigatin buttons for all screens	Enter a Hint - this is useful for other users who may wish to use this SmartComponent but are unsure how it works. Click Next>
Can	cel < Back Next > Finish	



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Create Smart Component		
	Finish Component Options	Here you have two options:
	 Lock the size of the SmartComponent so that users cannot resize it. Open the Component for Advanced editing after it has been created. 	SmartComponent is the same size every time it is added to a screen, ensuring consistency.
opendiem		2. Open for Advanced editing - this will
building clouds	Click 'Finish' to complete the creation of your Component and continue working on your project.	as the source code that generates the SmartComponent.
Cancel Kack Next > Finish		Check both boxes and click Finish.

You will now have two Notepad documents open, one for Hints (Close this window) and the other for the SmartComponent, starting with code similar to:

Title=Navigation Menu01 Version=20101109172108 File=100 Extent(76,195,886,225) Attrib=noresize

This File is located in the Project Library folder located at `c:\Program Files\Building Clouds\Opendiem\Library'

Title=Navigation Menu01 Version=20101109172108	Title is what is displayed in Designer
Extent(76,195,886,225) Attrib=noresize size will be consistent	Attrib locks the size of the SC so that every time it is added to a screen the
4("Image5") Pos(756,195,886,225) object, the second value is the	This line give the constraints of the object, the first value is the left of the top of the object, the third is the right of the object and the fourth is the

bottom of the object.

Example Syntax



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Image("","buttonglassblue01.gif")	Image placeholder	portion
P(0.100.0.100)	inage animated pro	perces
}		
4("Image4")		
Pos(618,195,748,225)		
Image("","buttonglassblue01.gif")		
Animate(3,1,0,0,1)		
P(0,100,0,100)		
}		
4("Image3")		
Pos(482,195,612,225)		
Image("","buttonglassblue01.gif")		
Animate(3,1,0,0,1)		
P(0,100,0,100)		
C(JavaScript(open('/opendiem/wb	c/chronos.html')))	C=Cl
Action		
}		
Truncated for clarity.		

C=Click followed by the link associated with the click

To Place a SmartComponent on the Designer Screen

Choose the SmartComponent icon from the Tool Menu



The SmartComponent Library menu will appear.

🚄 Library	
Select Cancel 0 1 2 3 4 5 6 7 8 9 Library Precent SmartComponents Library Provide tion SmartComponents Library Provide tion Navigation Image: Select SmartComponents Provide tion Objects Image: Select SmartComponents	ABCDEFGHIJKLMNOPQRSTUVWXYZ
"_nav_bottom_home.csc" selected.	



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Choose the navigation menu thumbnail and click Select.

Drag the approximate shape and position of the SmartComponent on the screen. You will be able to position it exactly later.

Object Properties		
General Visible Slider Custom		
Open Open Original SC Size Original Aspect Ratio		
		Hint
	Close	Help

From here you can choose to keep the original SmartComponent size, aspect ration, or open the SmartComponent for further editing.

Trending	Alarms	Overrides	Schedules	Documentation	Help?

Your SmartComponent can now be precisely placed on your screen.

End of Exercise 6

In this exercise you have created a simple SmartComponent that allows you to add pre-built components to an Opendiem design.

This exercise has however not fully explored some of the advanced features of SmartComponents, which are beyond the scope of this training class.



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Notes:

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Building Clouds 3229 Whipple Road Union City, CA 94587

Email: <u>support@buildingclouds.com</u> http://www.buildingclouds.com