



Programming Steps • Installation Notes • Integration Tips

Integration Designer APEX 10.5 Release Features

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1. Button Properties Window

Integration Designer APEX 10.5 introduces features that can increase productivity. The first feature that has been added is the new button properties window that replaces the previous macro window editor. In previous versions of APEX, when selecting a macro, variable or page link, the programmer was taken out of the user interface screen and into a separate view. Also, the programmer was unable to easily see the macros, variables or page links on a specific button.

With 10.5, the new button properties window will be docked on the bottom of the screen and quickly show the programming on a button.

NOTE: This partition may be docked anywhere on the screen, it is recommended to dock it on the bottom of the screen.



As the programmer selects a button, by default the button properties window will display the highest-level macro or variable commands or arguments. The programmer may revise the macro or select another macro, variable or page link from the tree display on the left side of the button properties window. The tree will also highlight the macro and variable levels contained on the selection with a purple border, letting the programmer know how that button or feedback is programmed, and what macro or variable levels exist on that selection.

Button Properties
🖃 🖅 TAG: Pop Up Menu
⊨∎_ Macro
🕀 Global
Source
🛄 Controller
🖕 🥔 Variable
🌐 Global
Source
🛄 Controller
🛄 🗋 Page Link

Note: This button that is tagged "Pop Up Menu" has a source and room macro, as well as a source and room variable as shown in the button properties tree.

If the programmer decides to select a variable view on any level, APEX will remember that choice and show variables contained on specific feedback as they are selected on the user interface.

Scientific Atlanta STB Samsung Blu-Ray Apple TV Yideo Game Port Yideo Game Port Zone 2 Controllers Sources Home Home Home		Dispiay Dispiay Samsung Blu-Ray 75%	Ŧ	념 236
TAG: Volume Global Source Global Global Source Room Controller Global Source Room (Redirected to: Zone 1 [R] Page Link	Text: Reversed: Inactive: Visible: Value: Command:	Edit Zone 1 Volume (RTI AD-64\Zone 1) RTI AD-64\Zone Commands\Volume Set(Zone 1, < dynamic >)		

This way, the programmer can quickly review or revise variables or macros without having to select any options in the tree view.

In addition, the programmer may access the page link by selecting the page link option in the tree. A purple border will appear on the page link option if there is an existing page link programmed. This may be modified or removed by the programmer.

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Main [Lutron Caseta] Controllers Sources Home Zone 1 [RTI AD-64] Yamaha AVR	~	Home Lights Climate Security
Button Properties Global Source Room Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 Zone 8 Zone 8 Controller Page Link	^ >	Page Group: Global > Main [DSC PowerSeries] ~ Page: <first page=""> ~</first>

The new button properties window has other advantages, particularly when programming a multi-room controller and using the room proxy features. Using the button properties tree, a programmer may select a specific button, and edit the macro or variable for a specific tag. In this way, the programmer ensures that when the user selects a room and then an activity macro on a global controller, the tag on that button will run the room macro in the room selected if the tag is matched. By selecting a zone from the tree after a macro or variable has been selected, that tag may be programmed in every room in the system with minimal effort.

In the example below, the programmer is selecting the "Activity: Apple TV" tag in the Media Room which is reserved for a room macro. The user may program this macro for the media room and then click on all applicable rooms in the tree and program the same tag on a room level.

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In this way, it is much easier to program activity tags to ensure the room proxy will run the appropriate macro when that room is selected, and the user selects the Apple TV activity.

In previous versions of APEX, when a user selects one of the macro or variable level icons in the macro and variable toolbar, he is taken to a separate interface.



In the new 10.5 version of APEX, the programmer may still select any of the macro or variable level icons, as well as the page link function. The tag window will display, and the button properties window will only reflect the properties for that item selected.

File Device Edit Page Options C	ommunications Library Window	/ Help			
o o 📄 🖬 🗁 🖆 🗍 😐 o o	· 🔏 🖻 🛍 🛤 🖬 🖷 🖏	1	Q BR	백 백 🖹 홍 🤋	희 ㅠ 와 쁘 (회 팬) 너 또 마 형
Workspace 4	🗔 Samsung Blu-Ray 🗙				
🍬 🗙	▲ Source Configuration	-m. X 📋			
🚮 Home 🔥 🔨	Hacro List	Tag /	Has Macro	System Macro	
Yamaha AVR Samsung IP TV Sinstific Atlanta STP	Replace SourceIR Properties	Netflix OK Options	Yes Yes No	No No No	
 Scientific Addite 31D Samsung Blu-Ray Apple TV Video Game Port Power Off Living Room Controllers Sources Home Zone 2 [RTI AD-64] Kitchen Controllers Sources Home Home 	 Add Blank Page Merge Pages Page Wizard Export Source Bundle RTiPanel (iPad) (Global) Blu-Ray KX7 (Global) DVD/Blu-Ray T3x (Global) DVD/Blu-Ray 	Pause Play Pop Up Menu Power Power Off Power On Prev Record Red Right Rotate Clockwise Rotate Counter Scan Back	Yes Yes Yes No Yes No Yes No No Yes	No No No No No No No No No No	
Button Properties	-				
E TAG: Netflix	System 🖂 🚽 🐳 🐳 🧡	🔏 🖻 🖺 🤊	(n		
Source	🦉 command 🗉 🛛 Samsung B	lu-Ray NETFI	XL		
	$\mathbb{A} \equiv $ Normal $\mathbb{A}_{\mathbb{Y}} / \mathbb{A}_{\mathbb{Y}} / \mathbb{A}_{\mathbb{Y}} $	Active $\underline{A}^* \underline{\mathscr{A}}^* \underline{\mathscr{A}}^*$	💽 🕺 Tag Netfli	ix	- Macro 🕀 🗰 🖪 🔚 Variable

The programmer may still program any of the tags in the tag window but will only have access to the level on the previous item selected, in this case, source level macros. The programmer may not select any other properties or see the user interface when the tag window displays.

2. Replace Source

Another feature added to Integration Designer APEX 10.5 is the "Replace Source" option that exists in the source properties for any infrared or RS-232 device type in APEX.



Once a source device in the tree is selected, the programmer may select the "replace source" option under the source configuration section. Once selected, a new window will display with the system library for the infrared or serial devices, allowing the programmer to select the source that is replacing the existing source. You may use the search feature to find the device you are looking for, just like the add workspace option under the infrared option.

	Infrared			
Media Room	Library: SYSTEM			~
	Search:			Clear
	Manufacturer	Туре	Model	^
	💭 10Moons	Media Manager	DMP Series HDD Media Pla	ver
	2Wire	Set Top Box	Media Portal Satellite Rece	iver/Me
	2Wire	Media Manager	Media Portal Satellite Rece	eiver/Me
	💶 2Wire	Set Top Box	Satellite Receiver Code Gr	oup 1
	I 3D Optics	Projector	Code Group 1	
	🚥 3M	Projector	DMS Series Projector with	DVD Pla
	🚥 3M	Projector	S55/X45/X55	
	🚥 3M	Projector	SPR1000 Streaming Project	tor.
	💶 35 Digital	Set Top Box	35D Series Terrestrial Reco	eivers
	💶 3view	Set Top Box	Freeview Series Code Gro	up 1
	💻 4geek	Media Manager	Medley 3 EVO	
	💶 4geek	Set Top Box	Medley 3 MKV Multimedia P	Nayer w
	A-NeuVideo	Switcher	HDTVHDMI44G HDMI 4X4 I	Matrix
	A-NeuVideo	Switcher	HD-88 Series 8X8 HDMI Ma	atrix
	A-NeuVideo	Switcher	ANT-VGA: Matrix ANT-VGA	404 для 🎽
	<			>

Once a new device is selected from the library of devices, a new window will display a grid with two columns. On the left side are the old commands, and the new commands that will be mapped are on the right. Commands that have no corresponding command are highlighted in red. The programmer may select a command from the drop-down on the right that will display all available device codes.

💽 Replace Source	×
Functions	^
CURSOR DOWN	CURSOR DOWN
CURSOR ENTER	CURSOR ENTER
CURSOR LEFT	CURSOR LEFT
CURSOR RIGHT	CURSOR RIGHT
CURSOR UP	CURSOR UP
FORWARD	FORWARD
FUNCTION BLUE	- None -
FUNCTION GREEN	- None -
FUNCTION RED	- None -
FUNCTION YELLOW	- None -
INFO	INFO
MENU DISC	- None -
MENU MAIN	MENU MAIN
MENU POP UP	- None -
NETFLIX	- None - 🗸 🗸
NEXT	NEXT
OPEN/CLOSE	OPEN/CLOSE
PAUSE	PAUSE
PLAY	PLAY
POWER TOGGLE	POWER TOGGLE
Name of Device: Oppo Digital - DVD - All Models	
	< Back Replace Source Close

The programmer may select a new command to map the old command to, or he may select the "none" or "keep original" option. Once the programmer has made the appropriate selections, they have an option to rename the device.

Functions					
CURSOR DOWN		CURSOR DOWN			
CURSOR ENTER		CURSOR ENTER			
CURSOR LEFT		CURSOR LEFT	CURSOR LEFT		
CURSOR RIGHT		CURSOR RIGHT			
CURSOR UP		CURSOR UP			
FORWARD		FORWARD			
FUNCTION BLUE		- None -			
FUNCTION GREEN		- None -	- None -		
FUNCTION RED		- None -			
FUNCTION YELLOW		- None -	- None -		
INFO		INFO	INFO		
MENU DISC		- None -			
MENU MAIN		MENU MAIN			
MENU POP UP		- None -			
NETFLIX		- None -			
NEXT		- Keep Original -			
OPEN/CLOSE PAUSE		- None -			
		ANGLE			
PLAY		AUDIO			
POWER TOGGLE		AUDIO ONLY			
ame of Device: Oppo Digital - DVD - All Models		BOOKMARK			
		CAPTURE			
		CURSOR DOWN			
		CURSOR ENTER			

Once the source is replaced, IR or RS232 commands will be replaced within macros, and a new activity tag will be created.

IMPORTANT NOTE: It is important to know the prior activity tags will not be replaced, so the new activity tag will need to be placed on the applicable button and programmed with the existing macro. Also, this function will only work on infrared or RS-232 devices. Drivers and other device types are not supported at this time.

3. Layer Context Menu

A layer context menu has been added to the layers window section. These features allow the programmer to hide, display, lock or unlock several layers at once rather than clicking on each individual layer and making the desired selection. These features can be accessed by right-clicking in the layer window area.



Hide/Show All Other Layers - This option will toggle between hiding and displaying any other layers that are currently not selected by the programmer. The selected layer will not be impacted.

Lock/Unlock All Other Layers - This option will toggle between locking or unlocking any other layers that are currently not selected by the programmer. The selected layer will not be impacted.

4. Bug Fixes

Some bug fixes and improvements have been made, most notably, the ability to program page links on the WK2 controller and text tag access for the KX1 controller. Other bug fixes have been made that are not specific to programming experience.

5. Expandable Driver Command Window

When a programmer selects the ellipsis menu to access a driver command, the driver command window can now be resized by selecting the new handle on the bottom right side of the driver command window. This makes is possible to see the entire driver command if desired. This was not possible in previous releases which would only display part of the driver command.

		Main	[Mirag	💽 Driver Command 🛛 🕹 🗙
				Select Browce Item From Audio List (Mirage Media Server - Main)
				Select browse stern From Addio List (minage media Server - main)
				Parameters index
				0
Text:	Edit		X	unused
Reversed:			X	unused
Inactive:			×	
Visible:			×	unused
List:	Browse List (Mirage Media Server - Main\Browsing)		X	
Command:	Mirage Media Server - Main\Browsing\Select Browse Item From Audio List		X	Dynamic Parameter: index 🗸 🗸
				Sustain Delay Between Repeats: 200 ms

6. Commercial Room Selections

When adding a room using the "add workspace" item, a programmer can select a specific library that reflects rooms that are common in residential or commercial applications. Select the library drop-down to toggle between the commercial and residential libraries that applies to your project. You may also enter rooms in manually if it does not appear on the list.

Select room to add the device to:	Rooms Controllers Drivers 7/1/ave Infrared RS-232 Pagesets Bundles	
Global		
Huddle Space	Library: Commercial.roomlib	~
Presentation	Commercial, roomlib	
Executive Office	Search: Residential.roomlib	
	Name	^
	Electrical Room	
	Exam Room	
	Exercise Room	
	File Room	
	First Aid Room	
	Gallery	
	Game Room	
	Garage	_
	Gym	_
	Hallway	
	Huddle Space	_
	Kitchen	
		_
	Library	
	Locker Room	
	Mailroom	
	Main Level	
	Marina	
	Mechanical Room	
	📕 Media Room	
	Meeting Room	v .