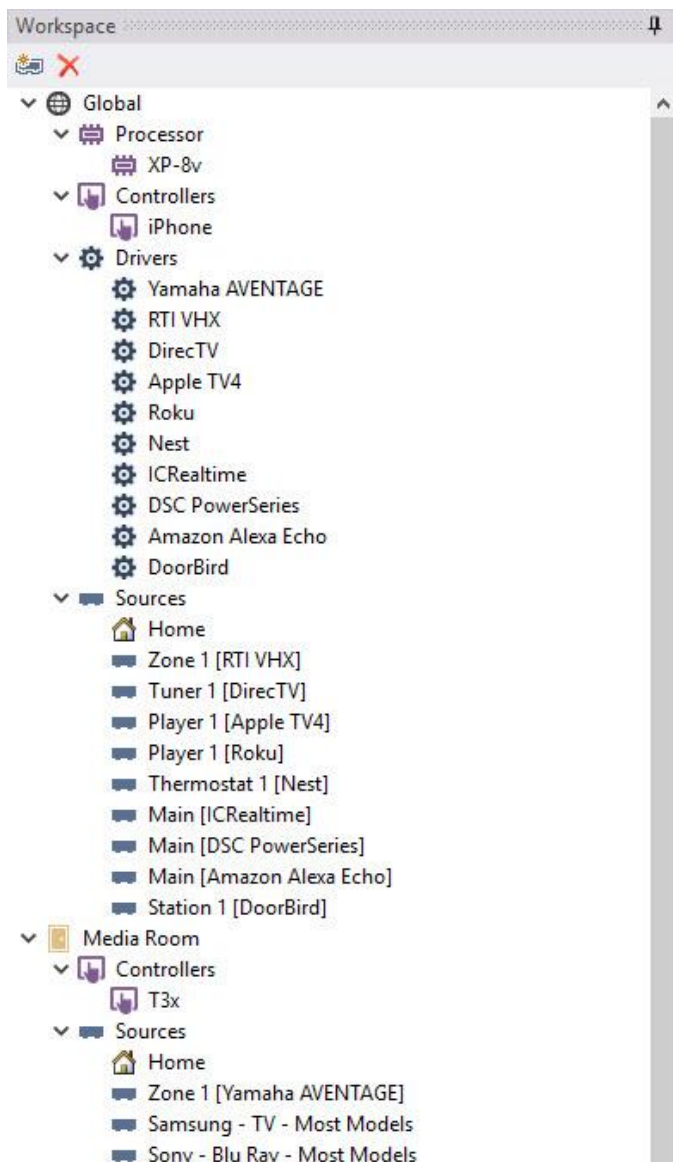# Integration Designer APEX vs. ID9.x

## PROGRAMMING TREE STRUCTURE

APEX has an organized approach complete with a system tree structure that is easy to build and reference as you build the project. One look at the programming tree and it's easy to understand the system and how it operates.

# AUTO-PROGRAMMING

Thanks to RTI's new tagging feature, APEX auto-programs commands and meta-data to make programming easier. No need to drag and drop IR, RS-232 or driver commands!

# PROGRAMMING & MAINTAINENCE SIMPLIFIED

RTI's tags and macro level advantages don't end with auto-programming. Make a change in one place instead of on every single controller! Corrections and additions are easy!

## SCALABLE GRAPHICS

Simply grab and stretch any bitmap or framework in APEX and re-size it to the resolution you like without distorting the graphics!  Graphics have been revolutionized in APEX and eliminate the need to have extensive graphic libraries for every available resolution.
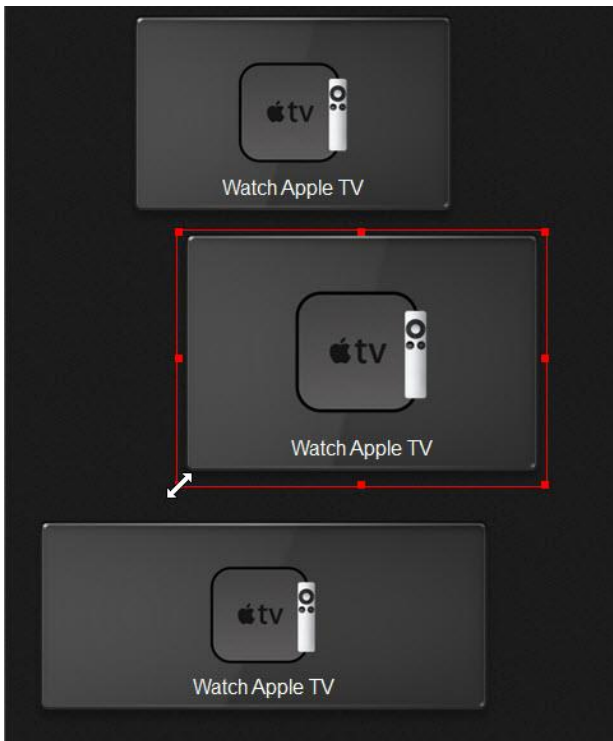


It doesn't end there.  Not only can bitmaps be embedded into other bitmaps, but channel icons gain transparency and if necessary, invert the color status to contrast the button!
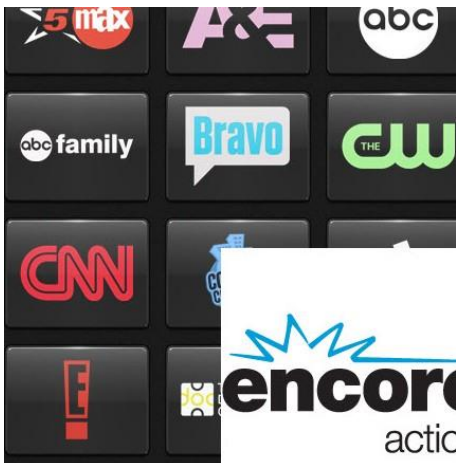
# PROCESSOR EVENTS

Processor events are now separated from driver events, allowing the programmer to develop sense, periodic, daily, or startup events, triggering powerful, automated routines.



# DRIVER EVENTS

Driver events are nothing new, but now you can see an overhead view of all your event options simply by selecting the driver. Create events based on the status of two-way devices and get your customers excited about true automation.

# Technical Bulletin

## APEX OPTIMIZED DRIVERS

Once a driver has been optimized for APEX it will bring several advantages. Some drivers are split into various functions, improving overall efficiency for RTI hardware and the programmer. Other features allow for a custom-built interface, populated with command functionality and feedback, allowing APEX optimized drivers to improve efficiency.

| | Name | Source | Manufacturer | Model | Version |
|---|---|---|---|---|---|
| | Yamaha AVENTAGE | Zone <Next Item> | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | HD Radio | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Tuner | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Sirius Radio | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | iPod | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | iPod USB | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | AirPlay | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Spotify | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Server | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Bluetooth | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | USB | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Net Radio | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | PC | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Rhapsody | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Napster | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Pandora | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | Sirius Internet Radio | Yamaha | AVENTAGE | 1.53 |
| | Yamaha AVENTAGE | SiriusXM | Yamaha | AVENTAGE | 1.53 |
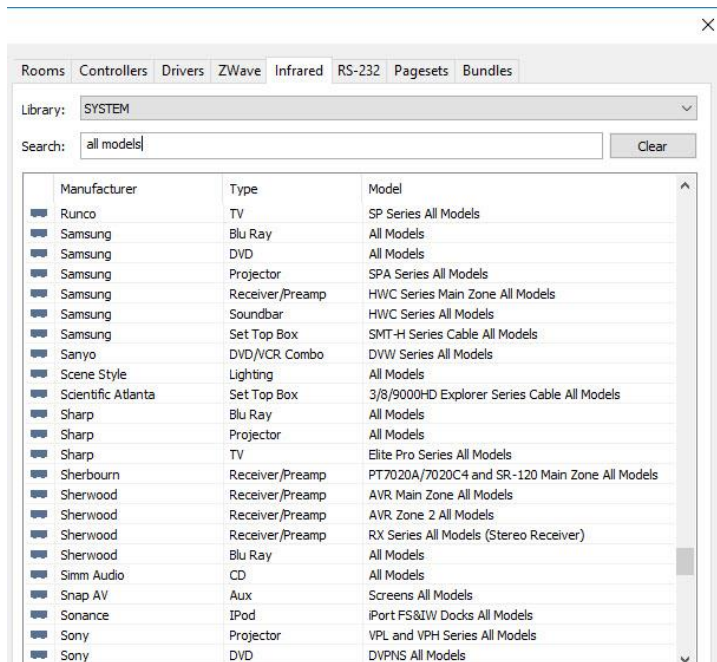
## BUILD MACROS WITH EASE

Once a command is selected or dragged to the macro window, any section of that command can easily be changed. You have full access to the devices and all the command structure, making the process of building and changing macros easier.
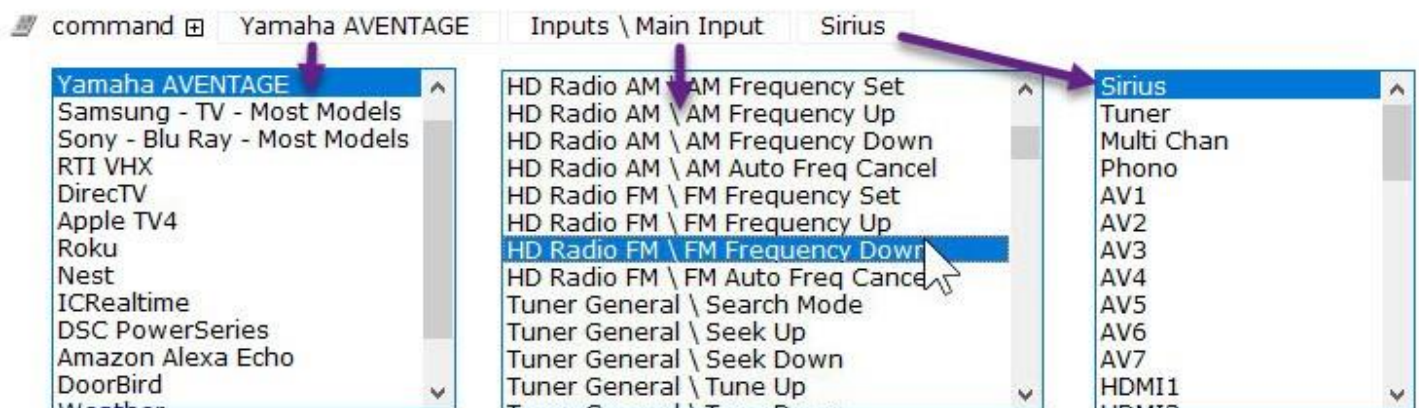
# LICENSED IR & SERIAL LIBRARIES

APEX IR and RS-232 libraries are now consolidated, comprehensive and accurate. All the commands all utilize the same naming convention for functions, making it incredibly easier and more efficient for programmers.

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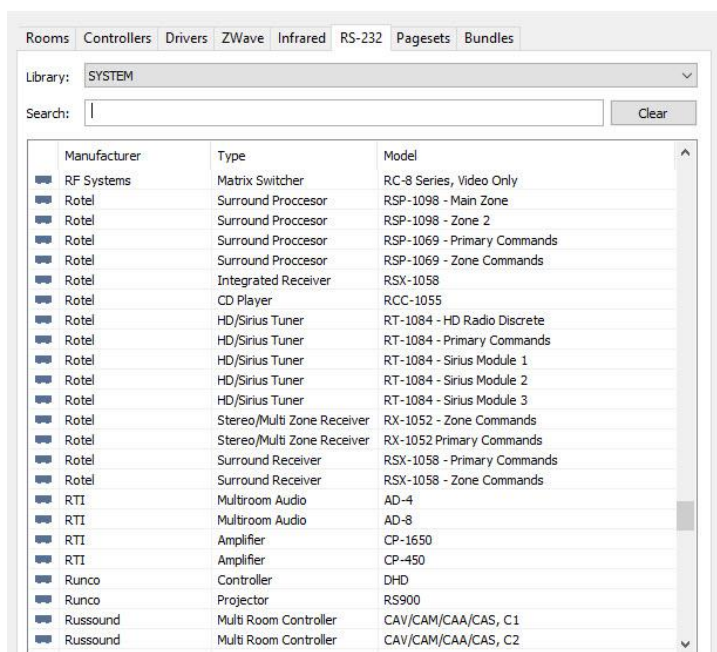
## LAYERS

Layers have been a popular request for RTI dealers and now they are here. Layers allow you to build and manage powerful interfaces with ease. You can build sub-menus, pop-up alerts and menus, scrolling lists, headers, and footers separately, without affecting other areas of the interface. Layers are easy to manage and allow the programmer to create a better experience for the end-user.

## SHARED LAYERS

Shared layers allow you design portions of a page, like popups and toolbars, once and then use them on multiple pages. Any edits you make to the shared layer are automatically reflected on every page that includes them.
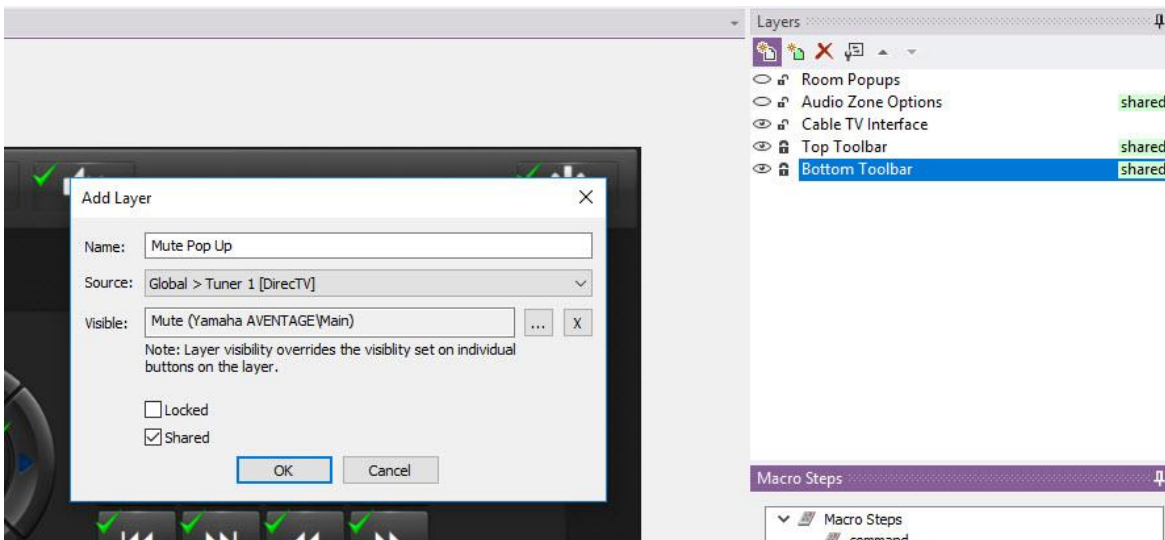


## VIEWPORTS

Viewports give RTiPanel devices the ability to create a horizontal scrolling list. You can swipe through this list without impacting any other graphics on the page. Viewports are a powerful feature that adds versatility to any RTIPanel device and can be built into the powerful layers feature, allowing the programmer to maximize screen real estate.
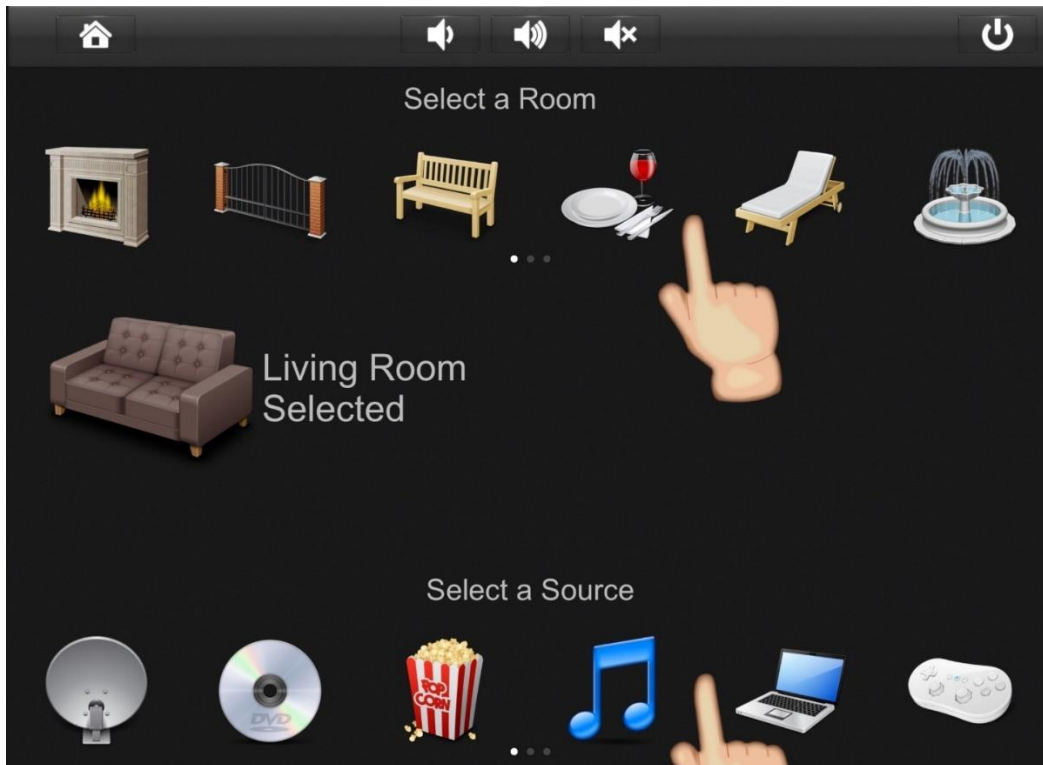
# EXPORTING AND IMPORTING BUNDLES

Once an interface is fully developed and perfected by the programmer, that device can be exported to a Bundle which includes all programming for that device, including the screens, IR codes, macros, and drivers. The Bundle can then be imported into the same or future projects. Bundles allow you to build a device library that contains a graphical user interface with functionality that you can repeatedly use in all your projects.



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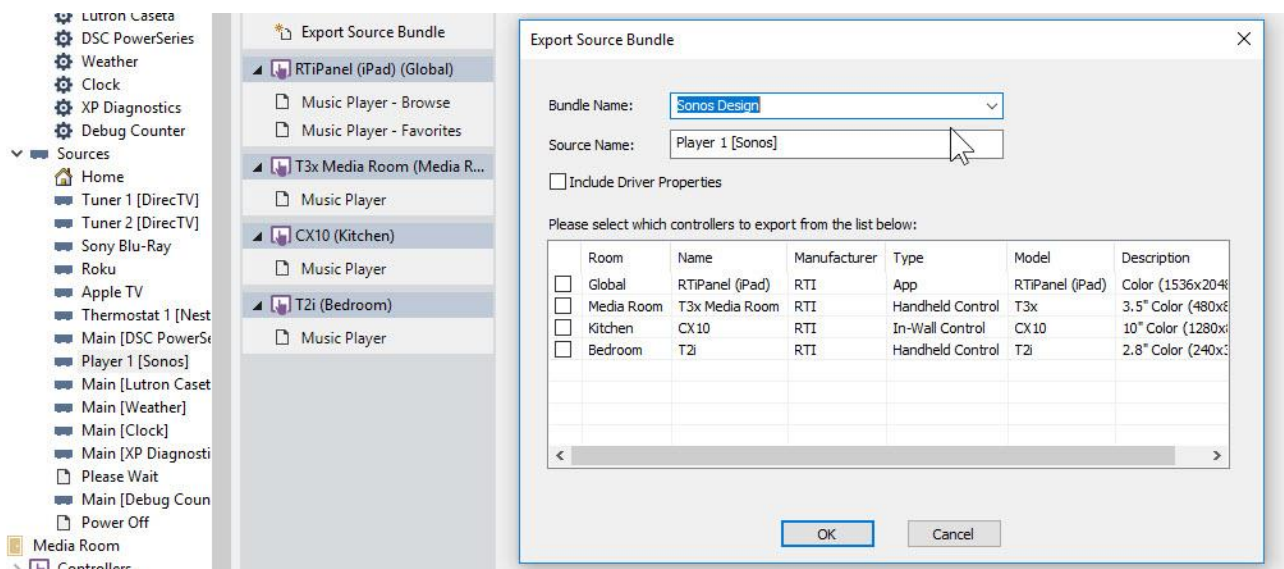
## SWAPPING LIBRARIES SEAMLESSLY

One of the most unique and convenient features of APEX is the ability to swap drivers with IR libraries, IR libraries with drivers, serial devices with drivers or IR, or any other combination. Thanks to tags and the powerful swap features, system maintenance is a breeze.



## ROOM PROXY

A built-in room selection feature that tracks a current room selection and dynamically changes the macros on-screen to point to that room. In addition, the programmer can base powerful if/then/else logic on the current room selected, providing an efficient way to program without the need to create multiple device pages for shared sources.

# Technical Bulletin

## SWAPPING TEMPLATES & GUI

If you think swapping devices is easy, try swapping out a user interface. Dealers can create their own graphics or use third party templates which can easily be swapped out to replace existing UI. RTI gives you the ability to switch one UI for another while preserving the commands and structure. Give your interfaces a quick makeover without the work involved.



BEFORE



AFTER

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# NEW MACRO COMMAND FEATURES
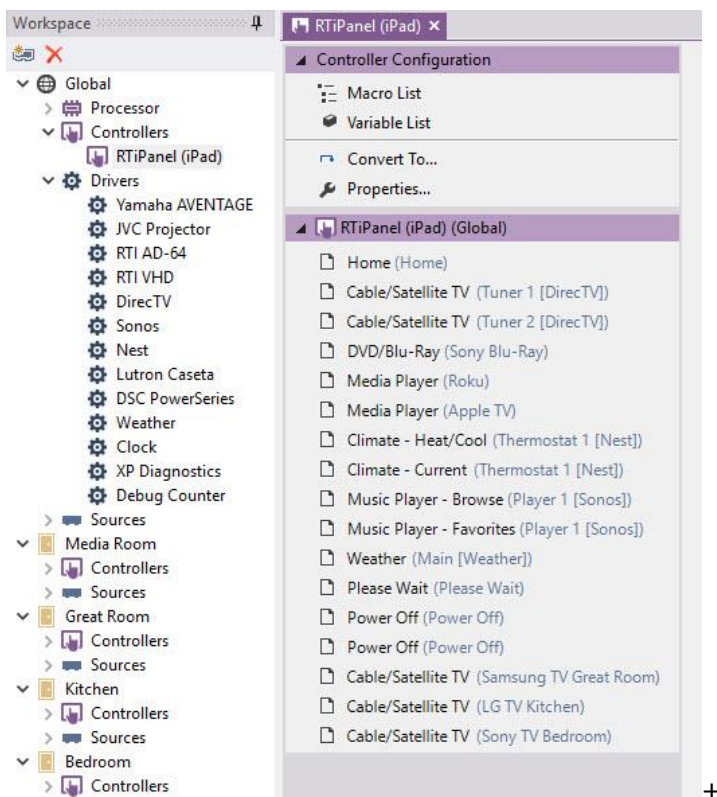
To accelerate the programming process for devices using IR codes, you can now set a default value for the minimum repeats, repeat while the button is pressed, and the .3 second delay setting for all IR codes in a device.

| System | | |
|---|---|---|
| command ⊟ | Controlled Device | Samsung TV Great Room |
| | Function Name | INFO |
| | Minimum repeats type | Use default |
| | Repeat while button is pressed | Use default |
| | Delay for 0.3 seconds after command | Use default |

# PAGE MANAGEMENT

Simply click on any controller, and all pages display in a single list allowing you to access and modify any page on your device from one place.

| Workspace | RTiPanel (iPad) × |
|---|---|
| Global | Controller Configuration |
| Processor | Macro List |
| Controllers | Variable List |
| RTiPanel (iPad) | Convert To... |
| Drivers | Properties... |
| Yamaha AVENTAGE | RTiPanel (iPad) (Global) |
| JVC Projector | Home (Home) |
| RTI AD-64 | Cable/Satellite TV (Tuner 1 [DirecTV]) |
| RTI VHD | Cable/Satellite TV (Tuner 2 [DirecTV]) |
| DirecTV | DVD/Blu-Ray (Sony Blu-Ray) |
| Sonos | Media Player (Roku) |
| Nest | Media Player (Apple TV) |
| Lutron Caseta | Climate - Heat/Cool (Thermostat 1 [Nest]) |
| DSC PowerSeries | Climate - Current (Thermostat 1 [Nest]) |
| Weather | Music Player - Browse (Player 1 [Sonos]) |
| Clock | Music Player - Favorites (Player 1 [Sonos]) |
| XP Diagnostics | Weather (Main [Weather]) |
| Debug Counter | Please Wait (Please Wait) |
| Sources | Power Off (Power Off) |
| Media Room | Power Off (Power Off) |
| Controllers | Cable/Satellite TV (Samsung TV Great Room) |
| Sources | Cable/Satellite TV (LG TV Kitchen) |
| Great Room | Cable/Satellite TV (Sony TV Bedroom) |
| Controllers | |
| Sources | |
| Kitchen | |
| Controllers | |
| Sources | |
| Bedroom | |
| Controllers | |

There are many other enhancements and features that make APEX a better choice for building larger system files. Contact us today for training opportunities!

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