Programming the KA8 and KA11 Touchpanels

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1.   Overview

RTI's new generation, Android-based KA series capacitive touchscreen controllers are fully customizable and may be programmed in Integration Designer software. The KA8 features an 8" widescreen LCD with 1280x800 WXGA resolution. The KA11 features an 11.6" widescreen LCD with 1920x1080 full HD resolution. Both models include an integrated capacitive touchscreen, supporting multi-touch and gesture control. A white or black model is available with edge-to-edge glass and utilize high brightness IPS LCD technology with vibrant color reproduction.

1.1. On-Wall Installation

The KA8 and KA11 may be mounted on-wall with an included mounting plate in a standard dual gang electrical box or trim ring. It is important to note that the units will not mount flush to the wall and there will be a small gap between the edge and bezel. LED strips may be utilized to accent the units if desired. Retainer screws are included to secure the units so that removal is not possible. If a flush mount is necessary, a flush mount kit is available via Wall-Smart (www.wall-smart.com) Because the units can be programmed in both orientations, they may be mounted in portrait or landscape.

1.2. Tabletop Installation

The KA8 and KA11 may be mounted on a counter or table using an optional accessory stand which can be purchased separately. Although the controllers can be programmed dual orientation, the table stand is designed for viewing in landscape.

1.3. Case Uses

The KA series controllers are designed for a variety of applications in the residential and commercial markets. They can be utilized either as an on-wall or tabletop controller in Kitchens, Offices, Media Rooms, Huddle Spaces, Conference Rooms, Houses of Worship, Restaurants, Bars, and Hotels.

1.4. Communication and Power

The KA series controllers are powered by PoE or an optional power supply that may be purchased separately. Internal power and access to the Android OS is not possible to guarantee these devices will not be compromised over time. The PoE and built-in USB programming port is located on the rear of the unit. While the controllers both support 802.11 b/g/n dual band WIFI, it is recommended for best results to utilize the Gigabit Ethernet connection for communication.

## 1.5. Upcoming Features via Firmware Update

Both controllers have a built-in 2-Watt stereo speakers, microphone and camera for video intercom functionality. This option will be available in an upcoming firmware release, but sound from the controllers is available through the speakers. An ambient light and proximity sensor that adjusts the screen brightness and LED backlights automatically according to the environmental light level will also be available in an upcoming firmware update.

## 2. Programming the KA Series Controller in Integration Designer APEX

The KA series controllers employ similar programming principles as other RTI controllers, with some minor differences. First, add your controller to the global or individual room using the add workspace item.
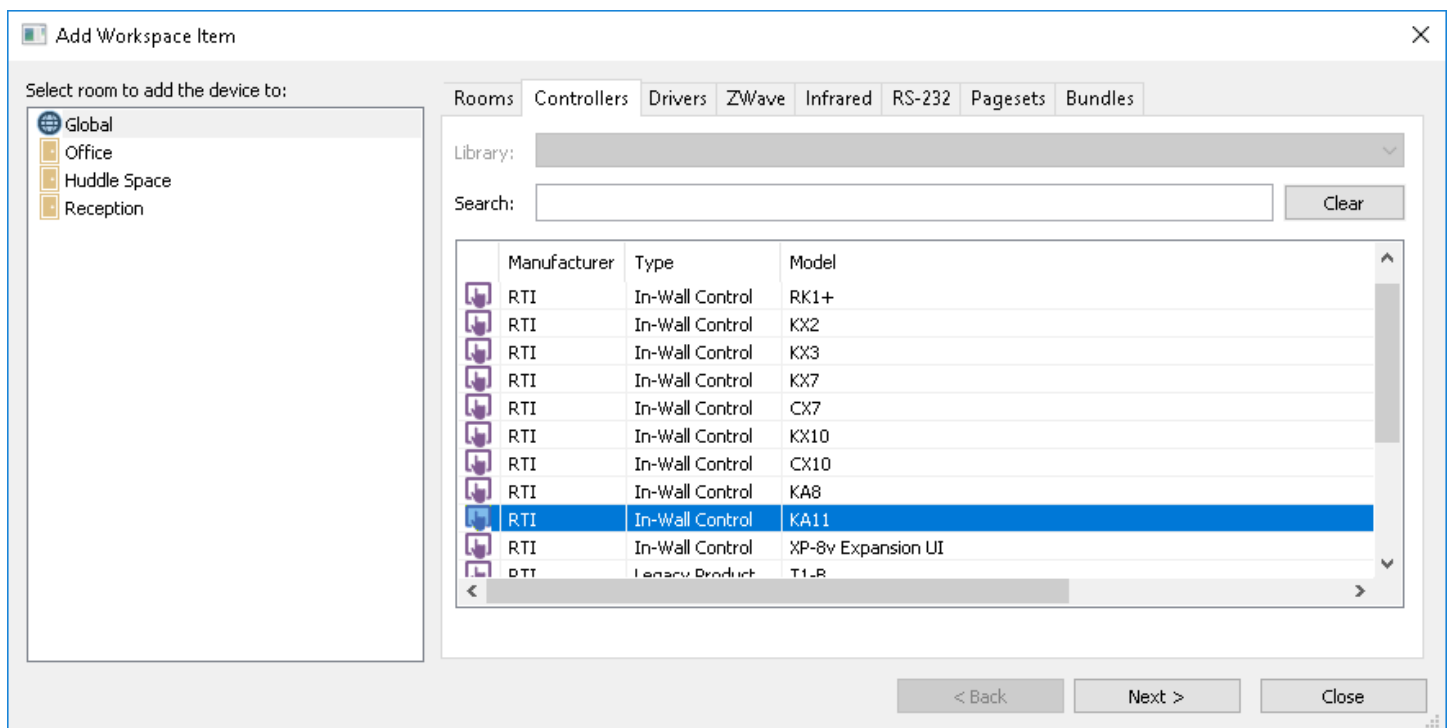
Next, name your controller and mark the checkbox next to the device pages you wish to create.
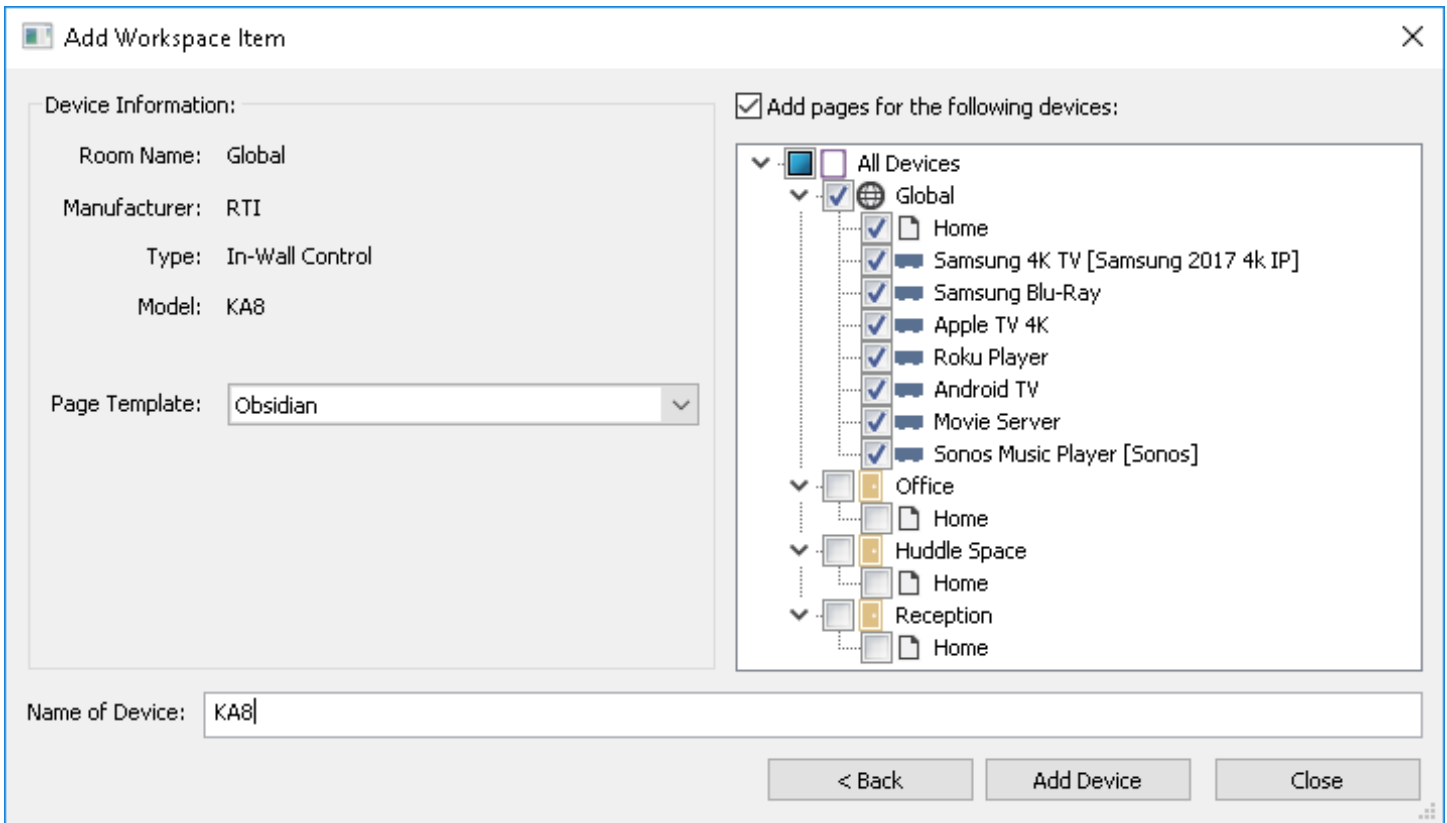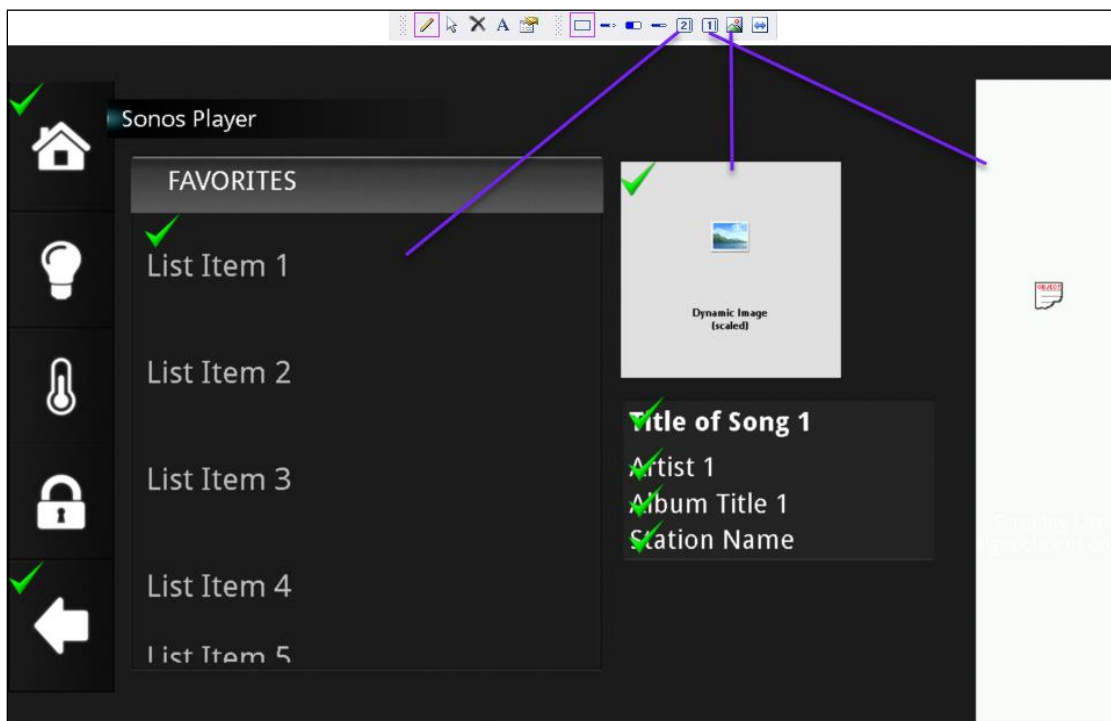

Once the controller or controllers have been added, it is important to define the properties. Right click on the controller in the system tree, select properties, and select the orientation choice preferred.
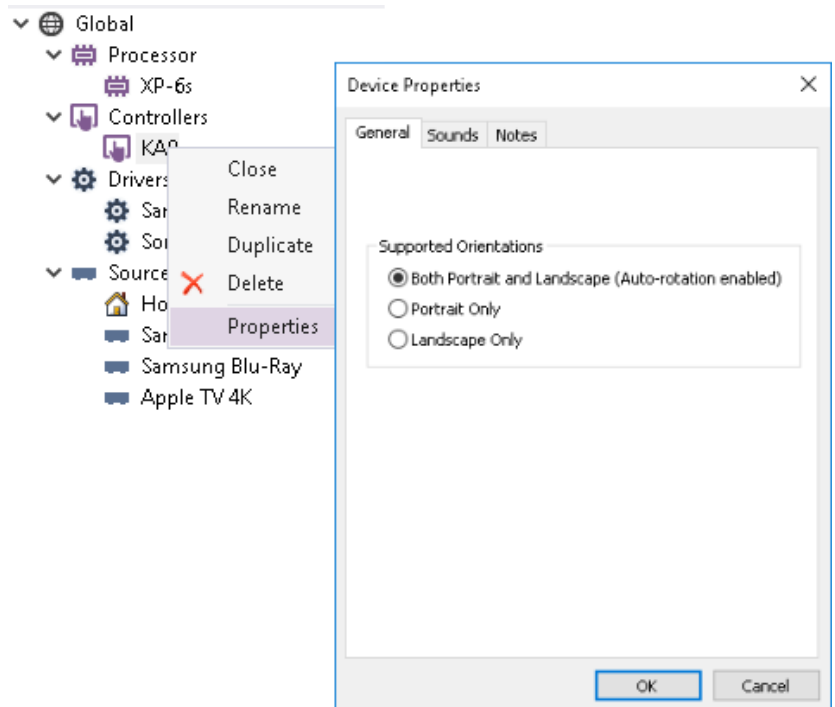
Similar to RTIPanel Android-based devices, objects such as sliders, gauges, toggle buttons, one-way and two-way item lists, and viewports may be drawn by selecting pencil mode in the selection toolbar.
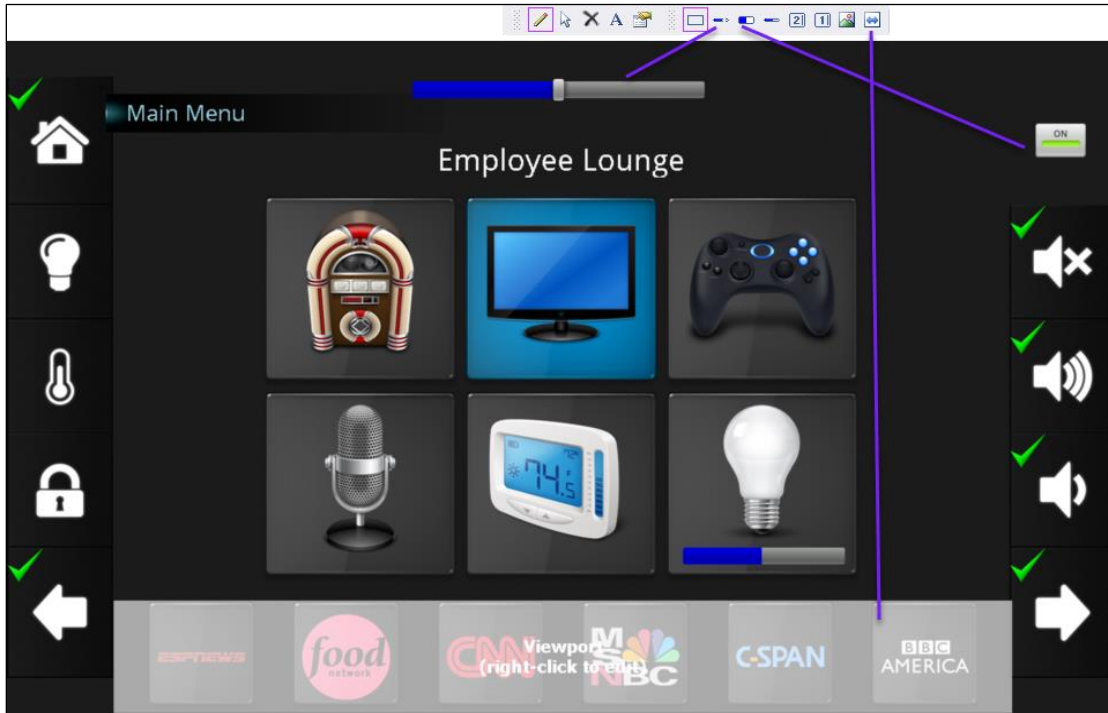
The programmer may draw a one-way or two-way item lists as well as dynamic images that are utilized for displaying cover art.

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Generic MJPEG objects can be dragged and dropped into a user interface for the purpose of viewing security cameras. Although these controllers do not support RTSP/H.264 video at this time, this will be a feature available through a future firmware update.
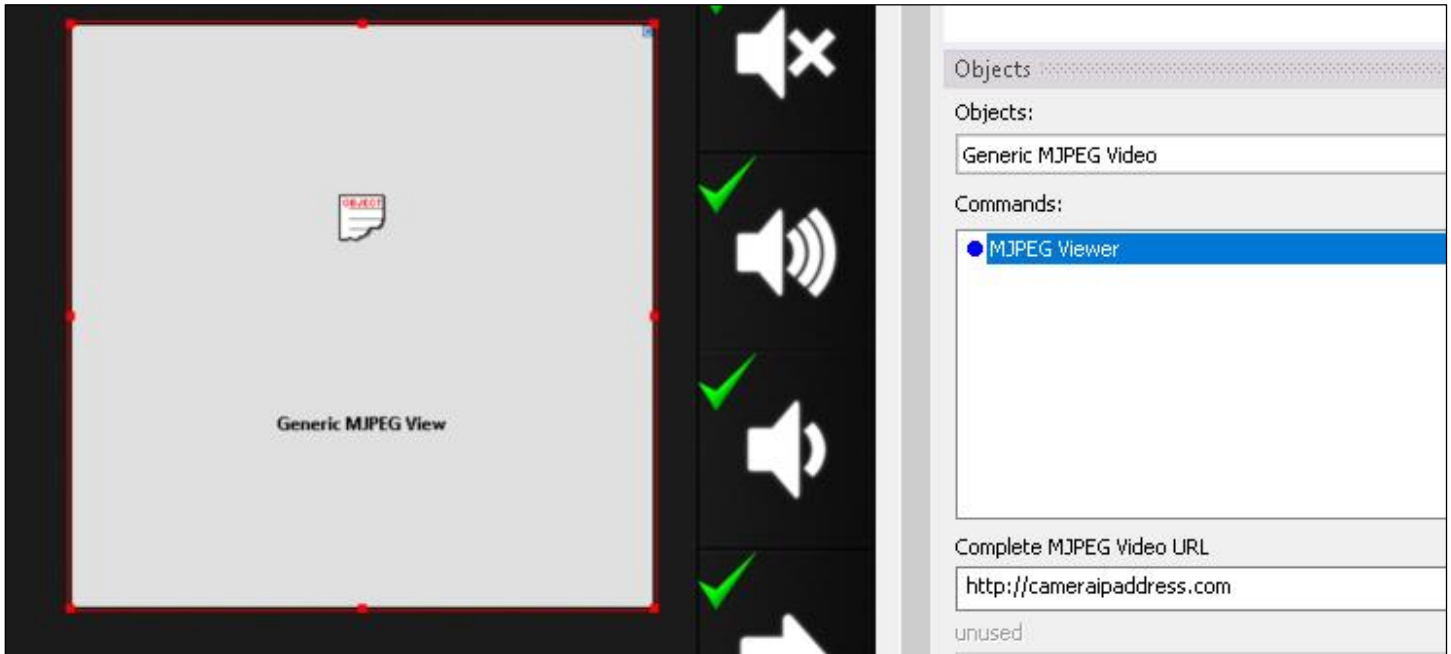
Although there are several similarities to programming an Android-based RTIPanel, there are also some notable differences:

- Frames may not be utilized for the KA series controllers. Since Viewports are supported, they can be used in lieu of frames.
- RTIPanel open URL is not supported. The Android OS is not accessible, so there is not an option to jump to third-party apps.
- An RTIPanel license is not required for KA series controllers.
- If used as an on-wall option or on a table, the unit will need to be powered via PoE, or with an optional power supply that can be purchased separately.
- These units are dedicated RTI controllers and don't exhibit the latency upon connection. This is a significant advantage over using RTIPanel devices which have an initial connection delay.
- While there is no ability to control third-party apps using these controllers, there will be no need to back up, update OS, or any other administration as all updates are done through RTI firmware.

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3.　Programming and Design Hints

- Decide what orientation the unit will be mounted on-wall or if deciding to use a tabletop accessory stand. In most cases, only one orientation will need to be programmed based on the usage.
- The KA series controllers do not have a built-in processor, nor do they offer line of sight component control. Be sure to have the necessary means to control your system devices through infra-red emitters, serial, or through network protocol.
- For best results, use the Gigabit Ethernet control option versus the 802.11 b/g/n dual band WIFI network. Gigabit Ethernet offers a more stable control option and less likely to exhibit latency and connection issues.
- If using as an on-wall controller, there will be a small gap between the wall and bezel as these units do not flush mount with the included hardware. Utilize LED strip accent backlighting if desired.
- Use viewports to maximize screen real estate and take advantage of the built-in gesture control.
- Use the included retaining screws for securing the unit on-wall in a public area or where theft can occur.
- Contact the Dealer Experience Team if you have any questions on programming or features that were not included in this tech bulletin.