

Workstation Connect



ZEBRA

Administrator's Guide

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About This Guide

This guide provides information about developing applications for Zebra Workstation Connect.

Configurations

This guide covers the following configurations:

Table 1 Compatible Configurations

Configuration	Description	Device Compatibility
CRD-EC5X-1SWS-01	<p>Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports.</p> <p>Included in the kit:</p> <ul style="list-style-type: none">• Cradle (for example, CRD-EC5X-1SWS-02)• Power Supply (for example, PWRBGA12V50W0WW)• DC Cable (for example, CBL-DC-388A1-01) <p>Country-specific AC line cords are sold separately.</p>	EC50 and EC55 Mobile Computers

Table 1 Compatible Configurations (Continued)

Configuration	Description	Device Compatibility
CRD-TC2X-1SNWS-01	<p>The TC21, TC26, TC21-HC, TC26-HC Connect Cradle (Workstation) connects a mobile computer to an external monitor and multiple peripherals, including HDMI, Ethernet, USB-A (4), and a 3.5mm headset jack.</p> <p>Included in the kit:</p> <ul style="list-style-type: none"> • Cradle (for example, CRD-TC2X-1SNWS-01) • Power Supply (for example, PWR-BGA12V50W0WW) • DC Cable (for example, CBL-DC-388A2-01) <p>Country-specific AC line cords are sold separately.</p>	TC21, TC26, TC21-HC, and TC26-HC Mobile Computers
CRD-TC5X-1SWS-01	<p>Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports.</p> <p>Included in the kit:</p> <ul style="list-style-type: none"> • Cradle (for example, (CRD-TC5X-1SWS1-01) • Power Supply (for example, PWRBGA12V50W0WW) • DC Cable (for example, CBL-DC-388A1-01) <p>Country-specific AC line cords are sold separately.</p>	TC52, TC52x, TC57, TC57x, TC52ax, TC52x-HC and TC52ax-HC Mobile Computers
CRD-NTC5X-1SNWS-01	<p>The TC53, TC58 Connect Cradle (Workstation) connects a mobile computer to an external monitor and multiple peripherals, including HDMI, Ethernet, and USB-A (4)</p> <p>Included in the kit:</p> <ul style="list-style-type: none"> • Cradle (for example, CRD-NTC5X-1SNWS-01) • Power Supply (for example, PWR-BGA12V50W0WW) • DC Line Cord (for example, CBL-DC-388A2-01) <p>Country-specific grounded AC Line Cord sold separately.</p>	TC53 and TC58 Mobile Computers

Table 1 Compatible Configurations (Continued)

Configuration	Description	Device Compatibility
CRD-NTC7X-1SNWS-01	<p>The TC73/TC78 Connect Cradle (Workstation) connects a mobile computer to an external monitor and multiple peripherals, including HDMI, Ethernet, and USB-A (4).</p> <p>Included in the kit:</p> <ul style="list-style-type: none"> • Cradle (for example, CRD-NTC7X-1SNWS-01) • Power Supply (for example, PWR-BGA12V50W0WW) • DC Line Cord (for example, CBL-DC-388A2-01) <p>Country-specific AC line cords are sold separately.</p>	TC73 and TC78 Mobile Computers
CRD-ET4X-1SNWS-01	<p>The ET40, ET45, ET40-HC, ET45-HC Connect Cradle (Workstation) connects a 10" or 8" Tablet to an external monitor and multiple peripherals, including HDMI, Ethernet, USB-A (x4), and a 3.5mm headset jack.</p> <p>Included in the kit:</p> <ul style="list-style-type: none"> • Cradle (for example, CRD-ET4X-1SNWS-01) • Power Supply (for example, PWR-BGA12V50W0WW) • DC Line Cord (CBL-DC-388A2-01) <p>Country-specific grounded AC Line Cord sold separately.</p>	ET40, ET45, ET40-HC, ET45-HC Tablets

Table 1 Compatible Configurations (Continued)

Configuration	Description	Device Compatibility
CRD-ET5X-1SWS-01	<p>Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports.</p> <p>Included in the kit:</p> <ul style="list-style-type: none"> • Cradle with Rugged I/O Adaptor (for example, CRD-ET5X-1SCOM2R) • Cradle (for example, CRD-ET5X-1SCOM1) • Power Supply (for example, PWRBGA12V50W0WW) • DC Cable (for example, CBL-DC-388A1-01) <p>Country-specific AC line cords are sold separately.</p>	ET51 and ET56 Mobile Computers
CRD-L10A-XVEHCOMS21-01	The L10 tablet comes with a Lithium-ion battery and a power supply.	L10 Tablets



NOTE: A Mobility DNA Enterprise license is required to use Zebra Workstation Connect on Zebra Professional-series devices.

Revision History

Changes to the original guide are listed below:

Revision	Date	Description	Zebra Workstation Connect Version
-08 Rev A	2/23	<p>Feature updates in this version include:</p> <ul style="list-style-type: none"> • Immersive Mode • Display Settings 	1.7
-07 Rev A	12/22	<p>Feature updates in this version include:</p> <ul style="list-style-type: none"> • Screen Resolution (Inches) • Version Control • Always Docked Mode • Paste Shortcuts from the Clipboard • Licensing 	1.6

About This Guide

Revision	Date	Description	Zebra Workstation Connect Version
-06 Rev A	8/22	Feature updates in this version include: <ul style="list-style-type: none"> • New Scanner Support • Configuration Reset Enable/Disable • Custom Shortcut Icons Enable/Disable • Troubleshooting 	1.5
-05 Rev A	5/22	Feature updates in this version include: <ul style="list-style-type: none"> • Desktop UI Elements • Freeform Windows • Desktop SIP Configuration • Application Behavior Persistence 	1.4
-04 Rev A	3/22	Feature updates in this version include: <ul style="list-style-type: none"> • System Configurations • Remote Control 	1.3
-03 Rev A	12/21	Feature updates in this version include: <ul style="list-style-type: none"> • Screen Sharing/Remote Control. • EMM Lockdown • Audio Settings • Screen Density • Screen Capture • Restrict Mobile Application Taskbar Access at the Package Level. • Screen Dimming 	1.2
-02 Rev A	10/21	Feature updates in this version include: <ul style="list-style-type: none"> • Advanced Application Permissions on the Desktop Home Screen. • Enable or Disable the All Apps Button on the Desktop Taskbar. 	1.1

Revision	Date	Description	Zebra Workstation Connect Version
		<ul style="list-style-type: none"> • Enable or Disable Mobile Device Application Icons on the Desktop Taskbar. • Access to Device Settings from the Taskbar Status Icons. • Soft Input Panel (SIP) Taskbar Icon. • Configuration of the External Keyboard Layout. • DS9308 USB Scanner Support (ET56 only). 	
-01 Rev A	8/21	Initial Release	1.0

Supported Peripherals

Peripherals supported by the Zebra Workstation Cradle include:

- External touch and non-touch HDMI monitor.
- USB-A Keyboard
- USB-A Mouse
- USB-A Headsets and Headphones
- Zebra External Scanners (connected via USB-A):
 - DS9308, DS9908, DS8108, DS4608, DS2208, DS2278, DS3678-SR, DS3608-SR, DS9308-SR, and MP7000 (scanning only for Zebra USB scanners).



NOTE: For ET5X tablets, headsets can be connected via the USB-C port on the tablet. USB-A headsets or headphones connected to the USB-A ports of the communication cradle are not supported.

Icon Conventions

The documentation set is designed to give the reader more visual clues. The following visual indicators are used throughout the documentation set.



NOTE: The text here indicates information that is supplemental for the user to know and that is not required to complete a task.



IMPORTANT: The text here indicates information that is important for the user to know.



CAUTION: If the precaution is not heeded, the user could receive a minor or moderate injury.



WARNING: If danger is not avoided, the user CAN be seriously injured or killed.



DANGER: If danger is not avoided, the user WILL be seriously injured or killed.

Notational Conventions

The following conventions are used in this document:

- **Bold** text is used to highlight the following:
 - Dialog box, window, and screen names
 - Dropdown list and list box names
 - Checkbox and radio button names
 - Icons on a screen
 - Key names on a keypad
 - Button names on a screen
- Bullets (•) indicate:
 - Action items
 - List of alternatives
 - Lists of required steps that are not necessarily sequential.
- Sequential lists (for example, those that describe step-by-step procedures) appear as numbered lists.

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: zebra.com/support.

When contacting support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software type and version number

Zebra responds to calls by email, telephone, or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Zebra business product from a Zebra business partner, contact that business partner for support.

Zebra DNA Cloud

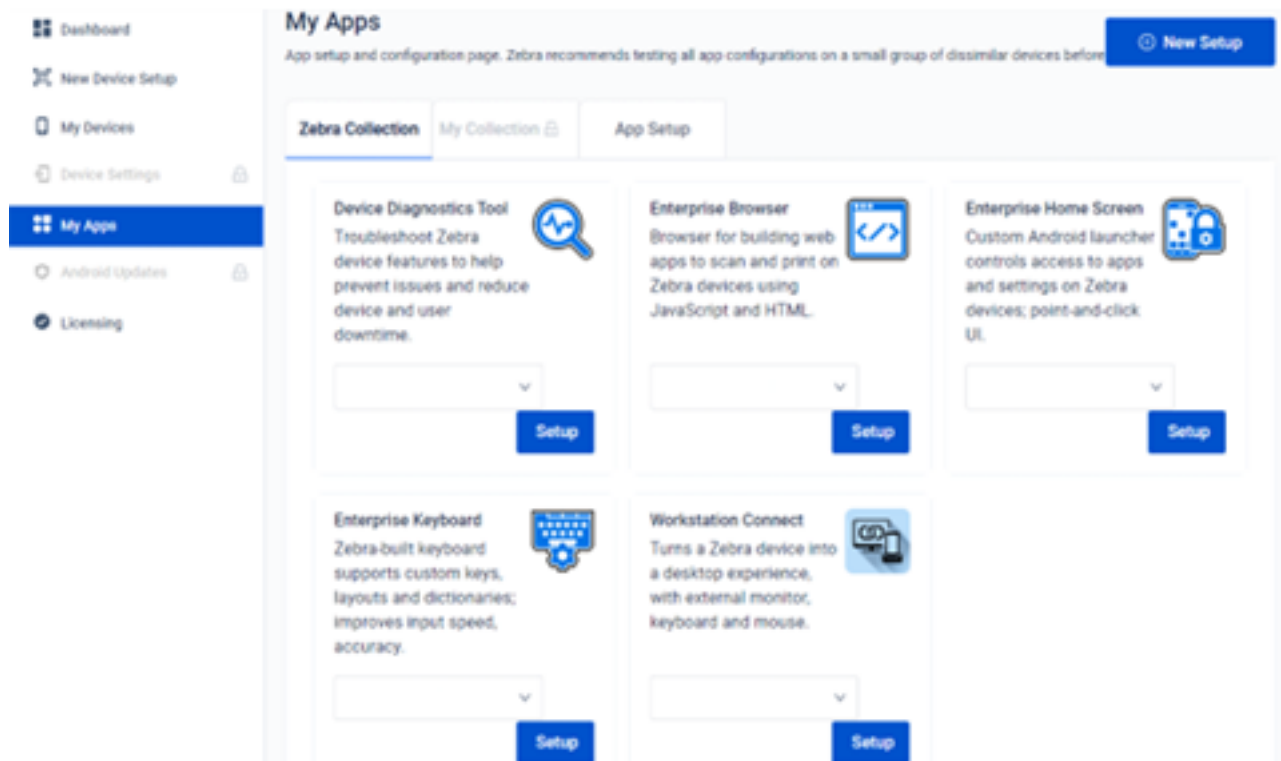
Before attempting the tasks described in this section, ensure that your organization has set up Zebra DNA Cloud. After one or more devices are enrolled and licensed in the Zebra DNA Cloud system, you can create and deploy device configurations or perform other administrative tasks such as email communication or document creation.

The My Apps section is for installing apps on devices and deploying related files. Apps are uploaded to the Zebra DNA Cloud system in a Collection, after which the administrator creates an App Setup Profile, designating an APK (selected from the Collection) for deployment along with configuration and data file(s)

Zebra DNA Cloud stores applications in Collections. Applications preinstalled on Zebra devices are viewable in the **Zebra Collection** tab. Applications installed by an organization are viewable in the My Collection tab.

The section below presents the screenshots for installing and configuring Zebra Workstation Connect using Zebra DNA Cloud.

1. On the Zebra Collection tab, click **Setup** next to Workstation Connect to set up the application.



- On the **App Details** page, confirm the information, and click **Next** to proceed.

Create New App Setup X

- 1 Select App
- 2 Configure App
- 3 Name and Description
- 4 Review and Apply

App Details

APP NAME	HOSTING LOCATION	APP VERSION	DEVELOPER	PACKAGE NAME	APP DESCRIPTION
Workstation Connect	zebra	1.5.81	zebra	com.zebra.workstatio...	Turns a Zebra device...

Discard
Next

- Select **Yes** to edit and include the configuration and data for the application.

Create New App Setup X

- 1 Select App
- 2 Configure App
- 3 Name and Description
- 4 Review and Apply

Configure App

Would you like to configure the application?

Yes

No

Configuration Details

⚠ The device(s) will automatically reboot after applying this app setup.

Setting Category

Desktop orientation

Select the orientation of content displayed on an external monitor

Desktop resolution

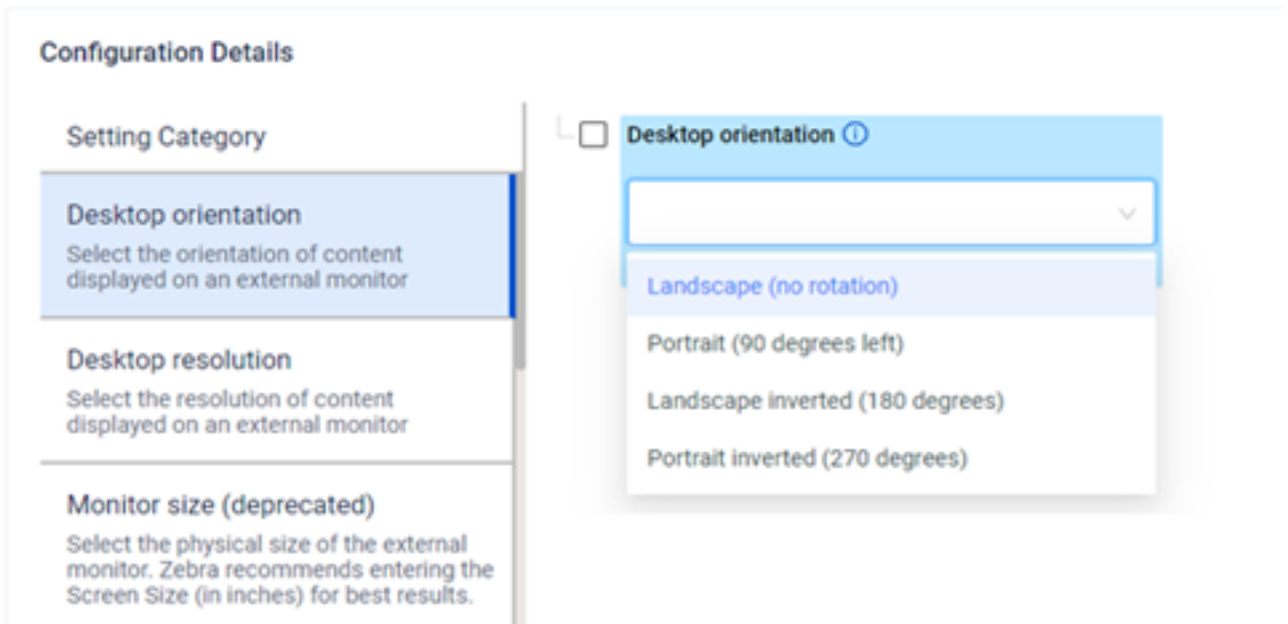
Select the resolution of content displayed on an external monitor

Desktop orientation ⓘ

Discard
Previous
Next

Configuring the External Monitor Orientation

Zebra Workstation Connect offers a method for the administrator to control the orientation of the external monitor. This setting should be configured to match the physical orientation that the display is intended to be used in to ensure that the content presented is properly oriented for viewing.



Configuring Display Settings

Select **Automatic** as the **Resolution and Size Mode** to automatically choose the preferred Display Resolution and Display Density (content size) based on the specifications of the connected external display monitor and apply it, providing an adaptive viewing experience for the user.



NOTE: After connecting a new monitor, undock and re-dock the device to enable the new monitor connection or configuration.

Configuration Details

Setting Category

Desktop orientation
Select the orientation of content displayed on an external monitor

Resolution and Size Mode
Select whether to automatically determine native resolution and screen size of external monitor (if possible) or to provide values manually.

Desktop resolution
Select the resolution of content displayed on an external monitor

Monitor size (deprecated)
Select the physical size of the external monitor. Zebra recommends entering the Screen Size (in inches) for best results.

Screen size (inches)
Enter the diagonal screen size (in inches) of the external monitor to be used. Resolution and monitor size are used to

Resolution and Size Mode ⓘ

Discard Previous Next

If the administrator chooses to configure Display Settings, then the administrator-configured Display Settings are reapplied and override the user-configured Display Settings each time the device is docked. In such cases, the user can change them again, but the configuration is only in effect until the device is undocked. An administrator typically does this to ensure that all users of a shared device have a common experience on docking and are not negatively impacted by settings configured by a prior user of that shared device.

The default display settings are in place if the administrator does not decide to configure Display Settings. In this case, the user can change the Display Settings that remain set across multiple docks and undocks of the device. An administrator typically does this when a device is dedicated to a single user that does not share the device with other users with different roles.



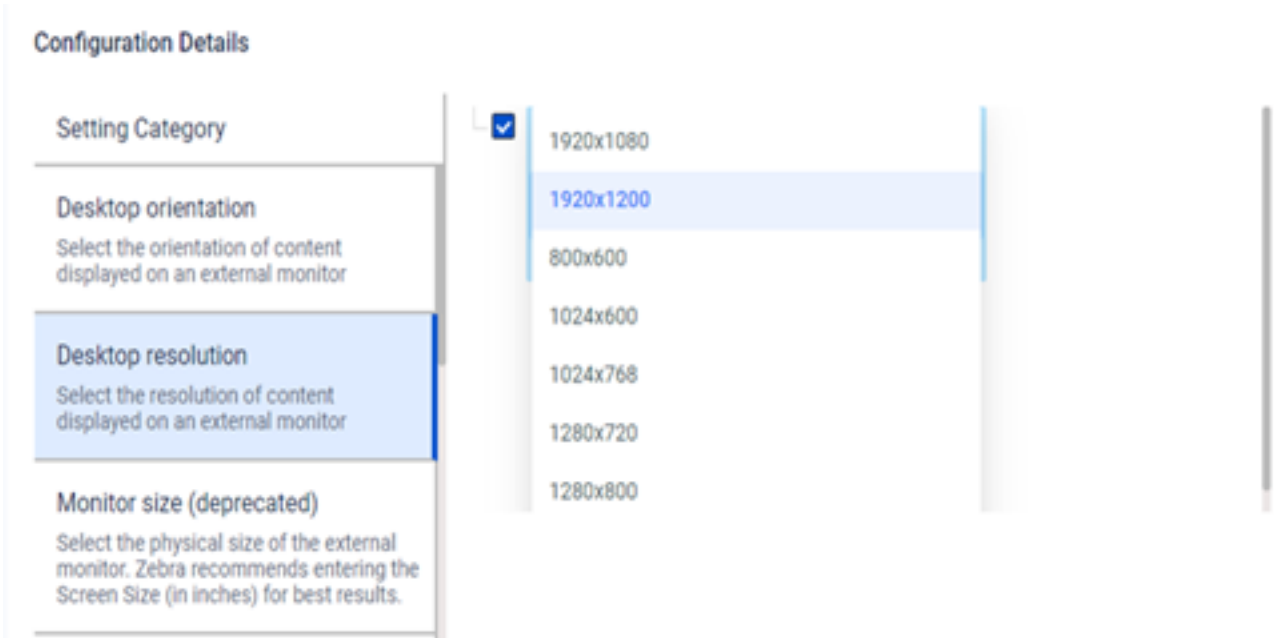
NOTE: When the persist flag is set, all configurations previously applied to Zebra Workstation Connect are reapplied automatically when the application is reinstalled after an Enterprise Reset. When the persist flag is not set, all configurations previously applied to Zebra Workstation Connect are lost upon an Enterprise Reset and returns device settings to their defaults.

Configuring the External Monitor Resolution

Zebra Workstation Connect allows the administrator to control the resolution on a secondary screen (external monitor) by selecting a specific resolution from the menu.



NOTE: When these settings are applied using Zebra Workstation Connect managed configurations, they change the configuration of the underlying device. Therefore, the changes could continue to impact the UI after they are set if the device switches to Mirror Mode.



Configuring External Monitor Density

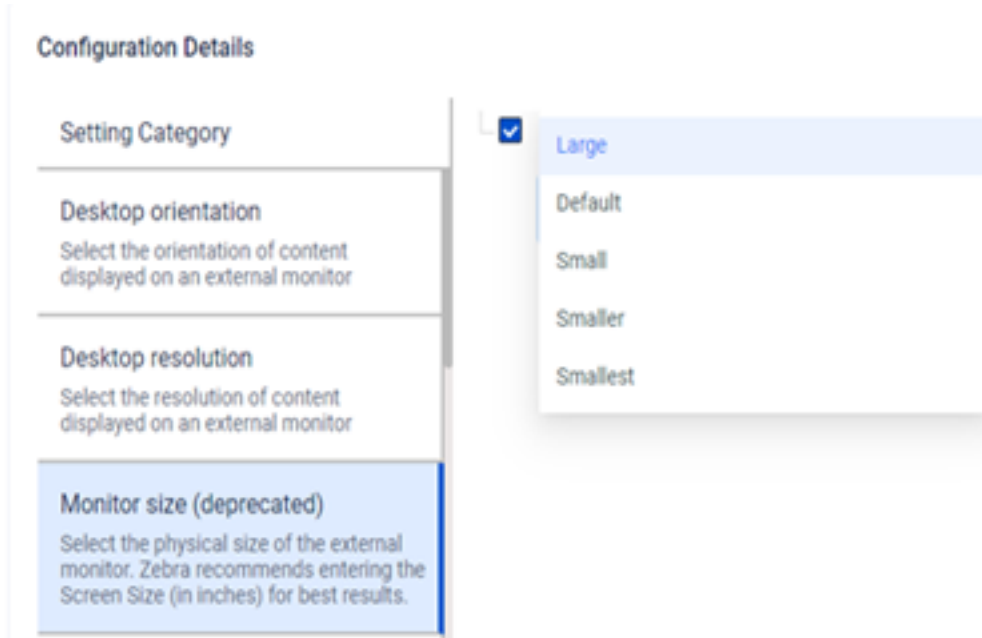
Zebra Workstation Connect supports multiple methods to configure external monitor density. Providing Monitor Size (deprecated), Screen Size (recommended), or using Auto-detection allows Zebra Workstation Connect to render the application based on the specifications of the external desktop monitor.

Monitor Size

Selecting the Monitor Size is deprecated. While the feature is available for use, it is not the most optimal or recommended way to calibrate external display settings. Configuring external display settings using Screen Size (inches) is recommended.

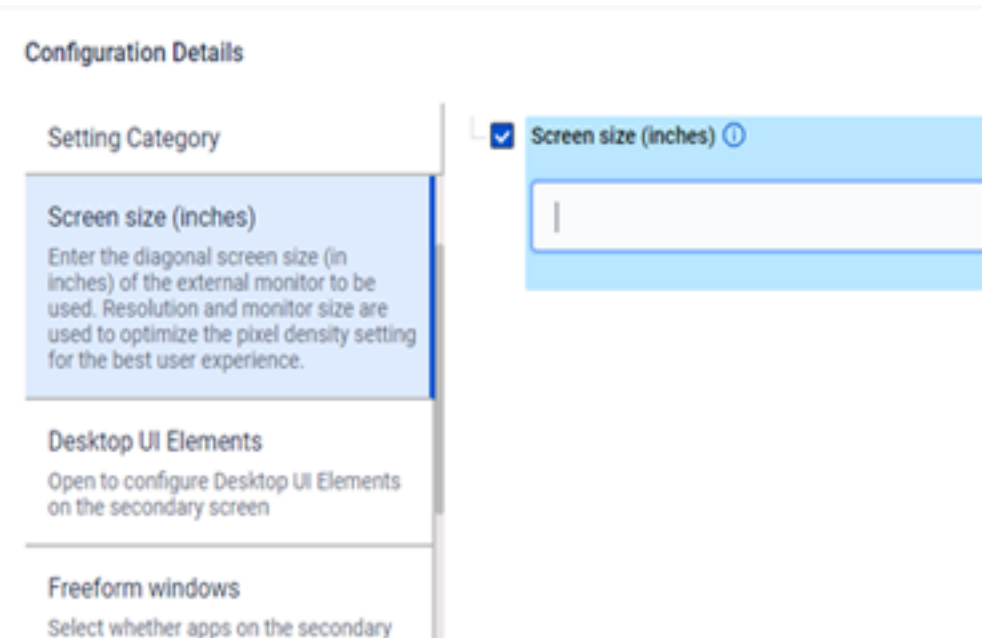


NOTE: Changing settings, such as the resolution density while in Always Docked mode, can disrupt the user's workflow if an application window is incorrectly calibrated.



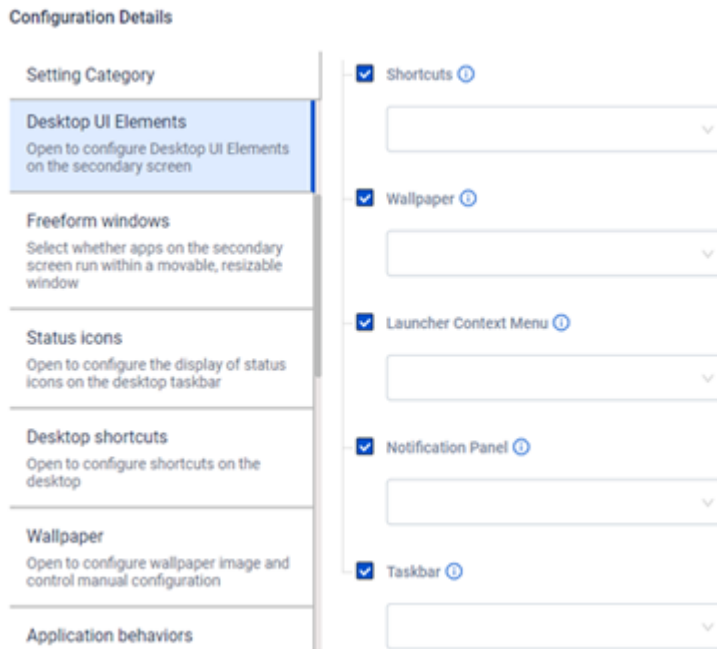
Screen Size (Inches)

Administrators can select the size of the screen in inches to inform the application of how to optimize its pixel density from the menu. Setting this value helps the application understand the native resolution of the external monitor and calibrate its output for the screen being used.



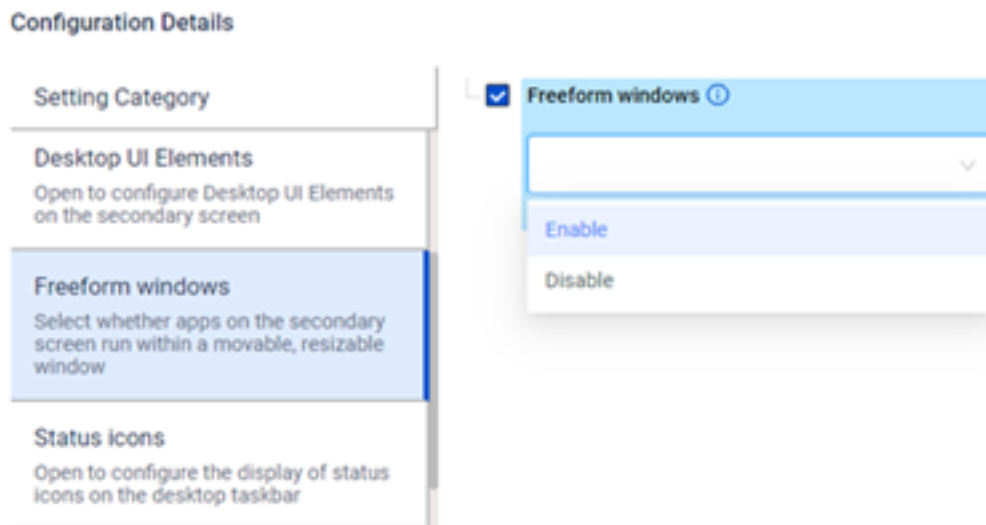
Desktop UI Elements

Administrators can configure to show or hide UI elements on the desktop, including shortcuts, desktop wallpaper, contextual menu, notification panel, and taskbar. Users view a single application when all UI elements are set to Hide.



Configuring Freeform Windows

Administrators can enable or disable freeform windows to determine whether the application displays in a movable and resizable window. The application has a window control bar containing back, minimize, and maximize/restore buttons when enabled. When disabled, the application launches with the window maximized and does not provide a control bar.



Configuring the Visibility of Status Icons

The administrator can configure to show or hide icons presented to the user on the taskbar's status area. By default, the following status icons are displayed on the taskbar: Battery, Bluetooth, Cellular, Ethernet, VPN, and Wi-Fi. The administrator can also choose to launch the corresponding device settings fragment when clicking on a specific status icon and launch the audio settings when clicking the See More option on the audio panel.

The screenshot displays the 'Status Icons' configuration page in the Zebra DNA Cloud settings. The left sidebar lists various settings categories, with 'Status Icons' highlighted. The right pane shows a list of status icons with checkboxes and dropdown menus for configuration.

Setting Category	Description
Desktop orientation	Select the orientation of content displayed on an external monitor
Desktop resolution	Select the resolution of content displayed on an external monitor
Monitor Size	Select physical size of external monitor. Used to adjust pixel density to optimize desktop UI at selected resolution to better fit dimensions of the monitor
Desktop UI Elements	Open to configure Desktop UI Elements on the secondary screen
Freeform windows	Select whether apps on the secondary screen run within a movable, resizable window
Status Icons	Open to configure the display of status icons on the desktop taskbar
Desktop shortcuts	Open to configure shortcuts on the desktop
Wallpaper	Open to configure wallpaper image and control manual configuration
Application behaviors	Open to configure various non-default application behaviors
Screen Capture	Select whether the device user is permitted to capture a desktop screenshot
Desktop SIP	Open to configure soft input panel for Desktop mode
Taskbar	Open to configure Taskbar options

<input type="checkbox"/> Battery ⓘ	[Dropdown Menu]
<input type="checkbox"/> Bluetooth ⓘ	[Dropdown Menu]
<input type="checkbox"/> Cellular ⓘ	[Dropdown Menu]
<input type="checkbox"/> Ethernet ⓘ	[Dropdown Menu]
<input type="checkbox"/> VPN ⓘ	[Dropdown Menu]
<input type="checkbox"/> Wi-Fi ⓘ	[Dropdown Menu]
<input type="checkbox"/> Settings UI from icons ⓘ	[Dropdown Menu]
<input type="checkbox"/> Audio settings from panel ⓘ	[Dropdown Menu]

Sorting Desktop Shortcuts

Sort the shortcuts on the desktop home screen alphabetically or by the time or date added by selecting the preferred arrangement from the dropdown menu.

Importing Shortcuts

To import a file of shortcuts to deploy to a device ecosystem, enter the device path and filename of a shortcut file previously exported from a Zebra Workstation Connect application into the Shortcut import file field. When a shortcut import file is specified, this replaces all the current set of shortcuts. Administrators can also paste the contents of a shortcut file from a previously exported configuration. This form field accepts the path and file name of the same file in the device file system. When configuring the managed configuration, the full path should be provided: `/enterprise/usr/zwc/filename.txt`

The administrator must deploy the file extracted from one device to the other devices that are going to be configured with that file in the device path. The filename entered into the form field must include the location in the device(s) where they are sending the managed configuration, and the file must be present in that place when the managed configuration is processed.



NOTE: When importing a file to create shortcuts, both `/enterprise/usr` and `/data/tmp/public` and subfolders are accepted. Shortcut export files are saved in `/enterprise/usr`.



NOTE: On EMM systems that limit the text size of input fields, some configurations might fail or be set incorrectly if the text pasted into the fields exceeds the limit set by the EMM.

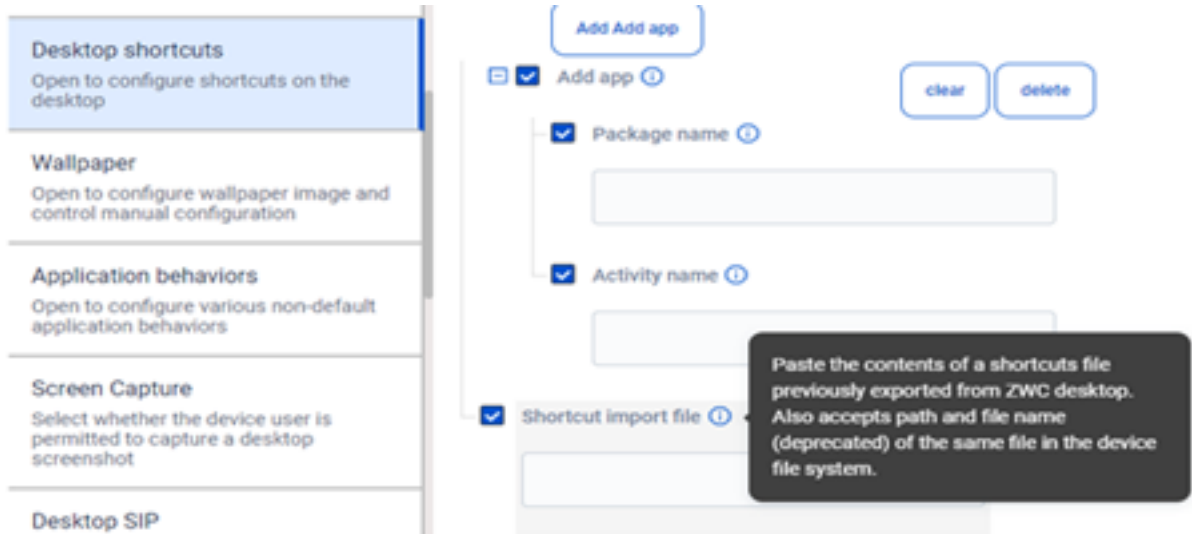


NOTE: The recommended method of importing shortcuts is by pasting the file into the Shortcut import file form field. While pasting the file path is available, this feature is deprecated and may not be supported in future versions of Zebra Workstation Connect.

The image shows a configuration interface for Desktop Shortcuts. On the left, a sidebar lists various settings: Desktop shortcuts (Open to configure shortcuts on the desktop), Wallpaper (Open to configure wallpaper image and control manual configuration), Application behaviors (Open to configure various non-default application behaviors), Screen Capture (Select whether the device user is permitted to capture a desktop screenshot), and Desktop SIP. The main area displays the 'Add app' configuration form. It includes a 'Shortcut import file' field with a tooltip that reads: 'Paste the contents of a shortcuts file previously exported from ZWC desktop. Also accepts path and file name (deprecated) of the same file in the device file system.' Other fields include 'Package name' and 'Activity name', both with checkmarks and information icons. There are also 'Add app', 'clear', and 'delete' buttons.

Replacing the Current Set of Desktop Shortcuts

To replace all currently defined shortcuts with a set of application shortcuts defined by the administrator, select the App Shortcuts option from the menu, as displayed in the figure below.



Next, enter the package name and an activity name for each shortcut. The shortcut defaults to the application's main activity if the activity name is left blank. An administrator can specify an array of shortcuts within a set of managed configurations sent to Workstation Connect.

If no array is specified, no change is made by the application to the shortcuts shown on the desktop. This option is preferable if the administrator does not want to change the desktop shortcuts or if the user is permitted to define their shortcuts.

If an array is specified, that array indicates the exact set of shortcuts that should be on the desktop and replaces any shortcuts on the desktop when it is applied on the device. If the administrator has previously declared an array and intends to change the shortcut, the array must be re-defined to include all elements designed to be included in the new array. The application creates shortcuts on the desktop to match the specifications of the array.

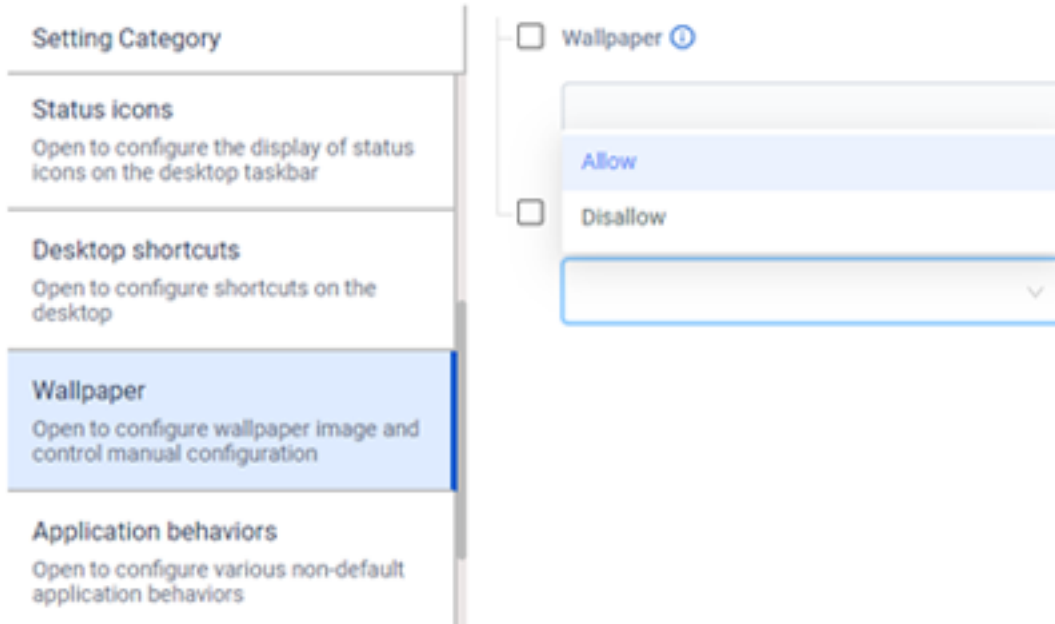
Configuring the Desktop Home Screen Wallpaper

The administrator can change the default desktop home screen wallpaper to supported image files stored on the device and written to a location that is generally writable and readable by all applications, including images downloaded to the device by the administrator. This can be configured by using the image file's device path and file name to set as the desktop home screen wallpaper.

The file must be deployed to the device at the path and name specified before the managed configuration is applied. If this does not occur, the file is not processed. Changing the file after it has been processed does not cause the file to be reprocessed until the next time the managed configuration is applied.



NOTE: The maximum background resolution is 4000 x 2500. For optimal performance, use an image with a resolution that matches the resolution of the display being used.



Using Immersive Mode

Workstation Connect supports configuration by the administrator to enable or disable automatic hiding of the taskbar for specific applications when running on the desktop in immersive Mode. Automatic hiding of the taskbar upon entry or exit from immersive Mode is disabled for all applications by default. If the Alt +F4 keyboard shortcut is set to its default behavior, the shortcut closes the focused application even if the application is in Immersive Mode and then displays the taskbar that was previously hidden.

Not every application utilizes Immersive Mode in the same manner. The administrator can configure which application packages can hide the taskbar when the application is in Immersive Mode. The administrator must decide which applications use Immersive

Mode and how the application handles entering or exiting from immersive Mode.

The screenshot shows the 'Application behaviors' settings page. On the left is a sidebar with categories: Setting Category, Desktop shortcuts, Wallpaper, Application behaviors (highlighted), Screen Capture, and Desktop SIP. The main content area shows a list of behaviors with checkboxes and input fields:

- Application behaviors (with 'clear' and 'delete' buttons)
- Package name (with an empty text input field)
- Activity name (with an empty text input field)
- On Docking
- On Undocking
- Device-user Access
- Immersive-mode Taskbar (with a dropdown menu)

At the bottom, there is a section for 'Add App-related Files (Optional)' with columns for 'Google Drive', 'Linked File Detail', and 'File Path and Name on Target'.

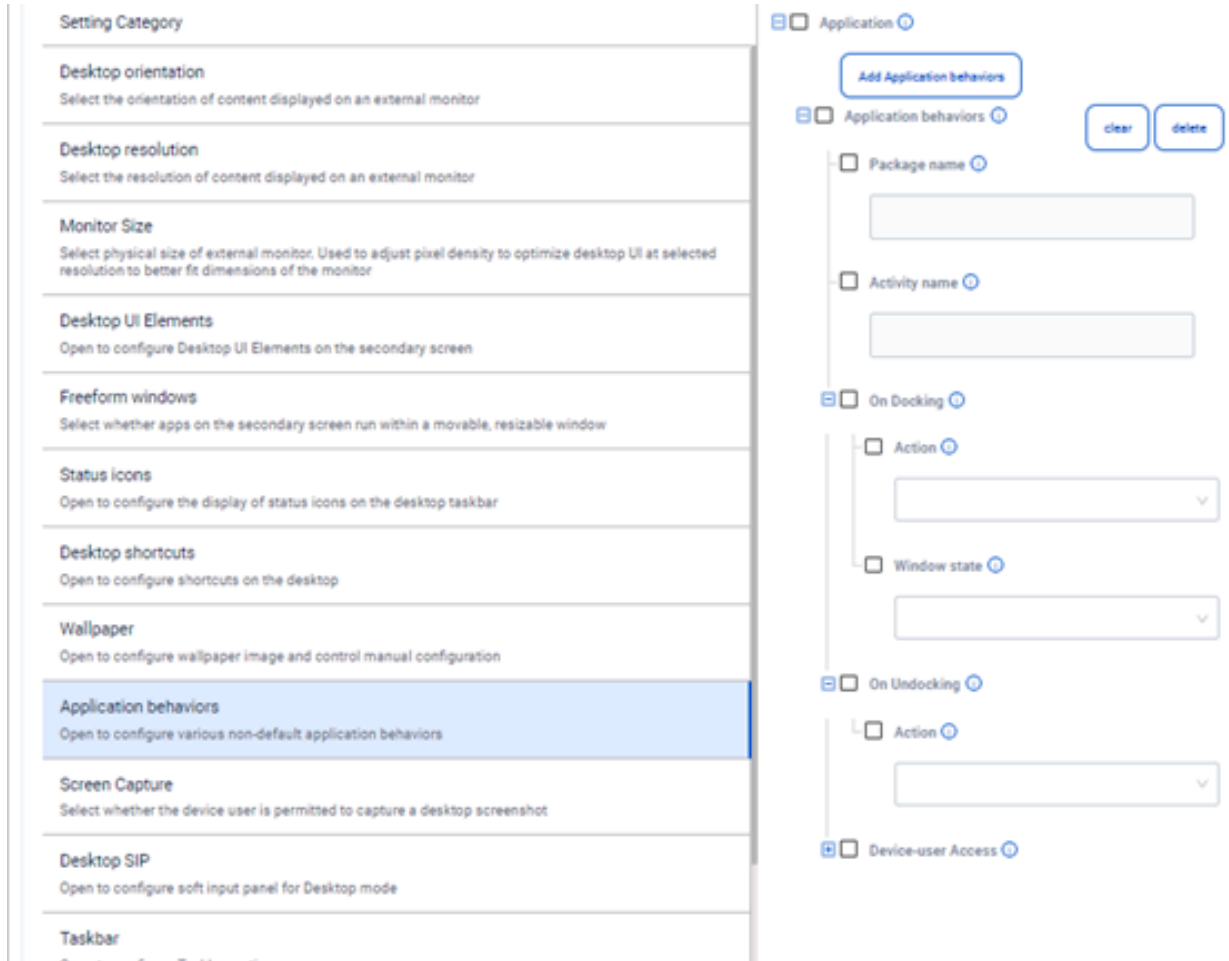


NOTE: BSPA support does not identify applications beyond the package name. As a result, Workstation Connect cannot handle applications with the same package name differently.

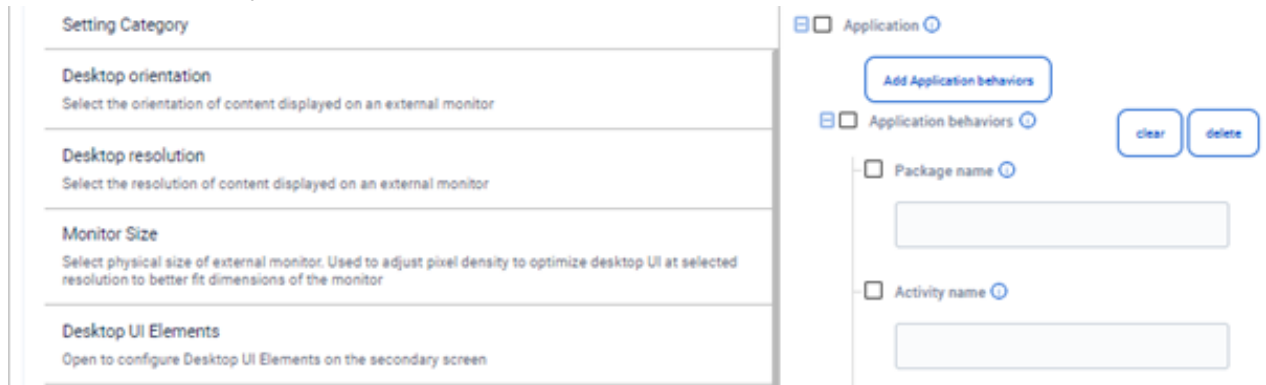
Configuring Application Behaviors

To create a new application behavior and click **Add Application** behaviors.

Next, add a package name and an activity name for the behavior and select an **Action** and **Window State** from the menu to specify docking behavior.



- Next, specify the application package name and activity name. This field defaults to all application activities if the activity name is blank.



- Specify the docking criteria that define the behavior that should be automatically performed for the application each time the device docks by selecting the **Action** and the **Window State** from the menu.
- The available actions are:
 - Stop - indicates that the application should exit automatically if it is running on the mobile device when it docks. This is useful if the application has no relevance in desktop mode and uses resources

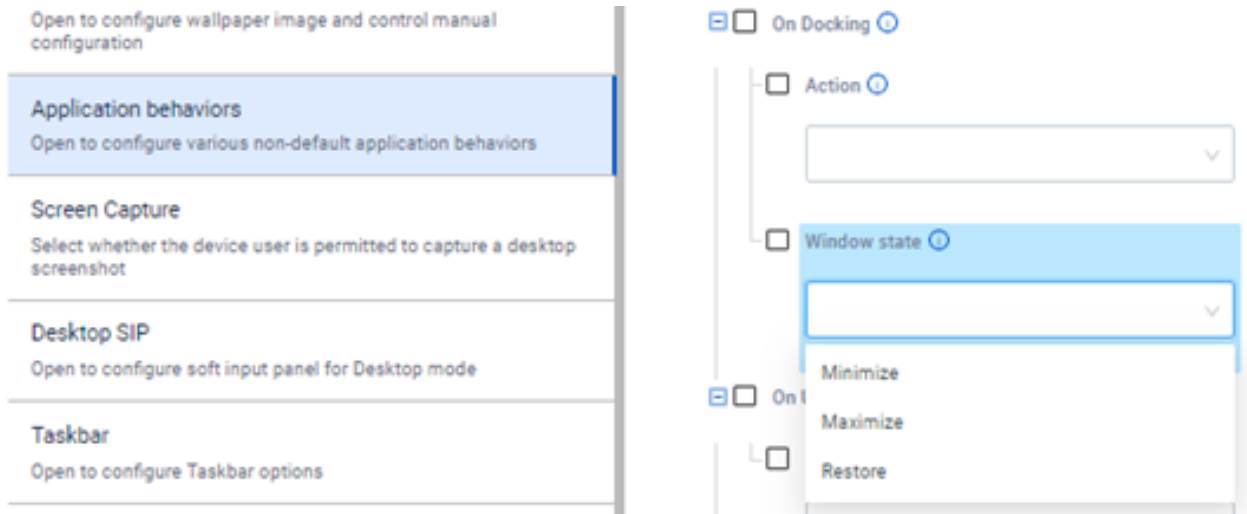
that should free up upon docking to make them available for use by applications used in desktop mode.

- **Launch** - indicates that the application automatically launches on the desktop home screen at the time the mobile device docks. This would make the application available for use by the user without the need to launch it manually.
- **Move** - indicates that the application should be automatically moved from the mobile device to the desktop home screen if it is running on the mobile device when it docks. This is useful if the application is relevant and commonly used in mobile and desktop modes and in use cases where ongoing application use in desktop mode is feasible without needing to move it manually.



NOTE: Suppose the administrator does not specify the docking criteria. In that case, the default docking behavior for all applications keeps the application running on the mobile device (either foreground or minimized) and presents the corresponding icons on the taskbar.

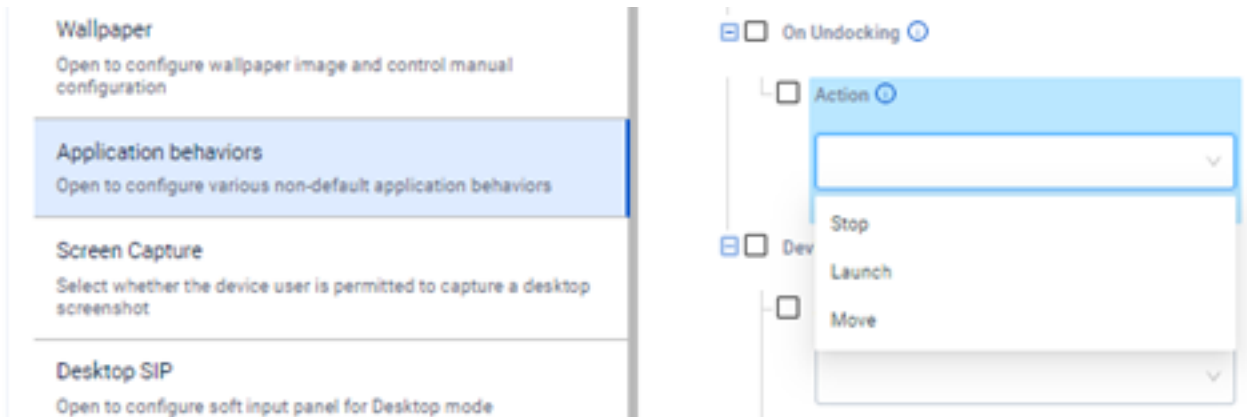
Configure how the application is displayed when launched or moved on the desktop home screen by selecting its **Window State**. This setting only applies to Launch and Move actions and allows the administrator to determine whether the application is automatically maximized (shown full size) or restored (in default or last used size).



NOTE: When setting the configuration to move an application upon a docking event, only one application should be configured to move when maximized.

- Set the undocking criteria that define the behavior that should be automatically performed for the application each time the device undocks by specifying the Action. The available actions for undocking criteria are: stop, launch, and move.
 - **Stop** - indicates that the application should exit automatically if it runs on the desktop home screen when the device undocks. This is useful if the application has no relevance in mobile mode and demands resources that should free up upon undocking to make them available for use by applications in mobile mode.
 - **Launch** - indicates that the application should automatically launch on the mobile device at the time the device undocks. This makes the application available for use by the user without the need to launch it manually.
 - **Move** - indicates that the application should automatically move from the desktop home screen to the mobile device if it runs on the desktop when it undocks. This might be appropriate if the

application is used in mobile and desktop modes where ongoing application use in mobile mode is desirable without needing the user to move it manually.



NOTE: When undocking, if you are moving an application and prefer which one appears in the foreground, only specify the rule for that specific application intended to be viewed in the foreground. Only one application should be configured to open in the foreground at once.



NOTE: Since only one application can run in the foreground at a time on the mobile device, the ability to provide multiple launches/move undocking behaviors is not feasible. If done, the last application launched/moved becomes the foreground application, and the rest are minimized and accessed from the **Recents** panel.

Configuring Device User Access

This feature allows the administrator to control whether the user can launch specific applications from the Workstation Connect desktop home screen UI. Once the administrator configuration is applied, the Workstation Connect desktop UI is restricted to prevent the user from accessing the disabled method(s) to launch the restricted applications or settings on the external monitor.

Restrictions include the ability to individually or collectively prevent the following methods from being used to launch restricted applications or settings.

Administrators can allow or disable specific configurable options by selecting from the menu. Configurable options include:

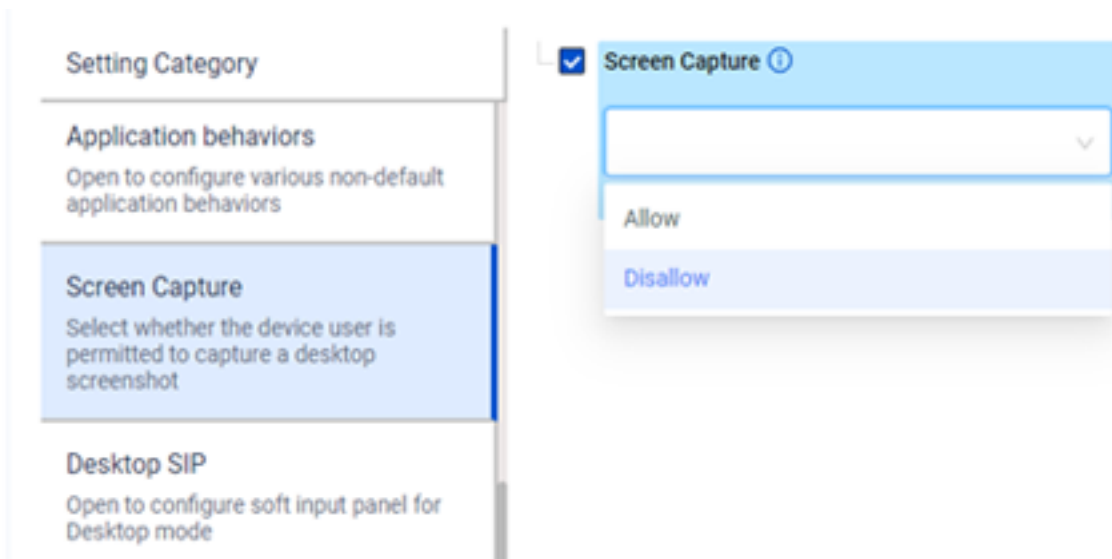
- Enabling or blocking a user from launching a specified application from the Desktop All Apps Panel.
- Enabling or blocking a user from launching an application and its specified activities from an existing desktop shortcut.
- Enabling or blocking a user from launching all activities for the application from a notification in the notification panel.
- Enabling or blocking a user from moving all or specified activity for an application from the mobile computer to the desktop using the taskbar.
- Enabling or blocking a user from moving all or specified activity for an application from the desktop to the mobile computer from the taskbar.
- Enabling or blocking the visibility of specific application icons from displaying in the taskbar.



NOTE: If the intended use case does not require the device user to launch an application on the desktop, set all the parameters mentioned above to Disallow.

Configuring Screen Capture Permissions

Administrators have the capability to permit or restrict a user's ability to generate a screen capture of the secondary display by selecting Allow or Disallow from the associated menu. For some use cases, administrators might want to Disallow screen capture to protect sensitive data being displayed in an application on the desktop by preventing screen captures that could allow that data to be extracted from the device and shared without permission.



Configuring the Desktop SIP

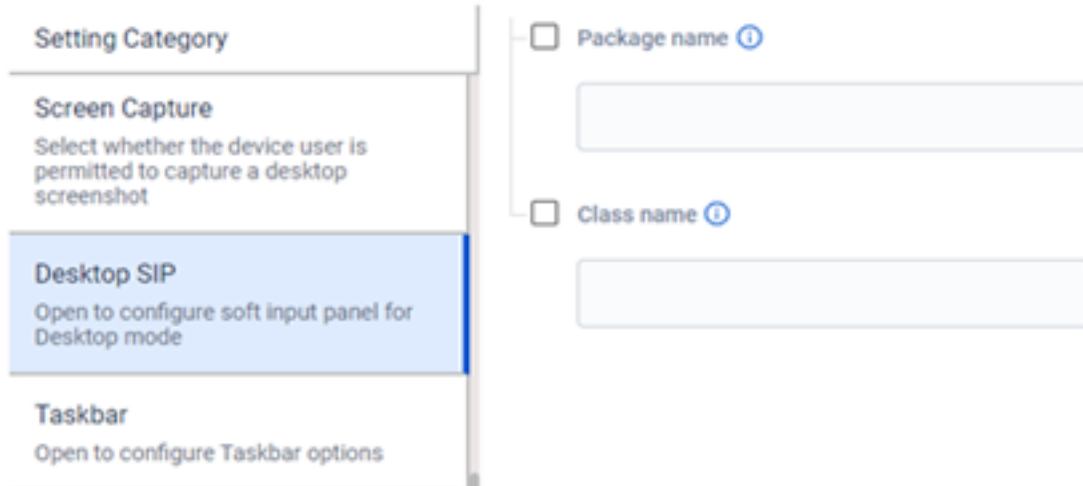
The SIP that appears in desktop mode is configurable by entering the package name, and the preferred SIP class name displayed when the device is docked.

The SIP that appears while in desktop mode is configurable by entering the package name and class name of the preferred SIP that displays when the device is docked.



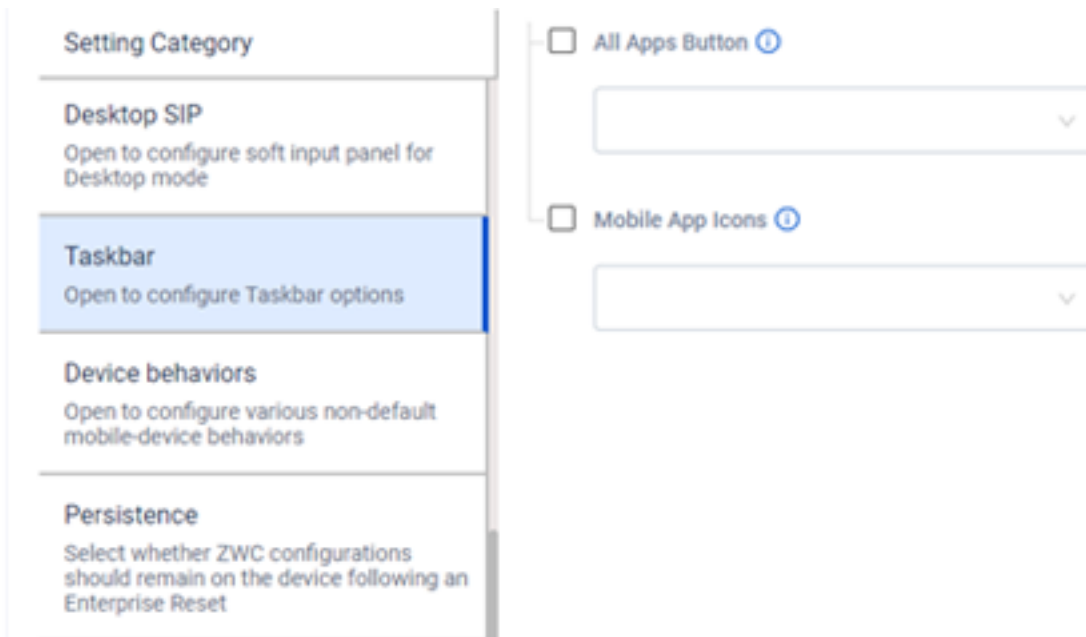
NOTE: There can only be one selected default SIP which will come up whenever a SIP is needed.

Since there is only one default SIP configuration, Zebra Workstation Connect achieves the desired result by saving the default SIP on docking and changing the default SIP to the administrator-selected value. On undocking, Zebra Workstation Connect restores the saved default SIP. This allows a SIP that is optimized for desktop use to be used while docked and a SIP that is optimized for mobile use to be used when undocked.



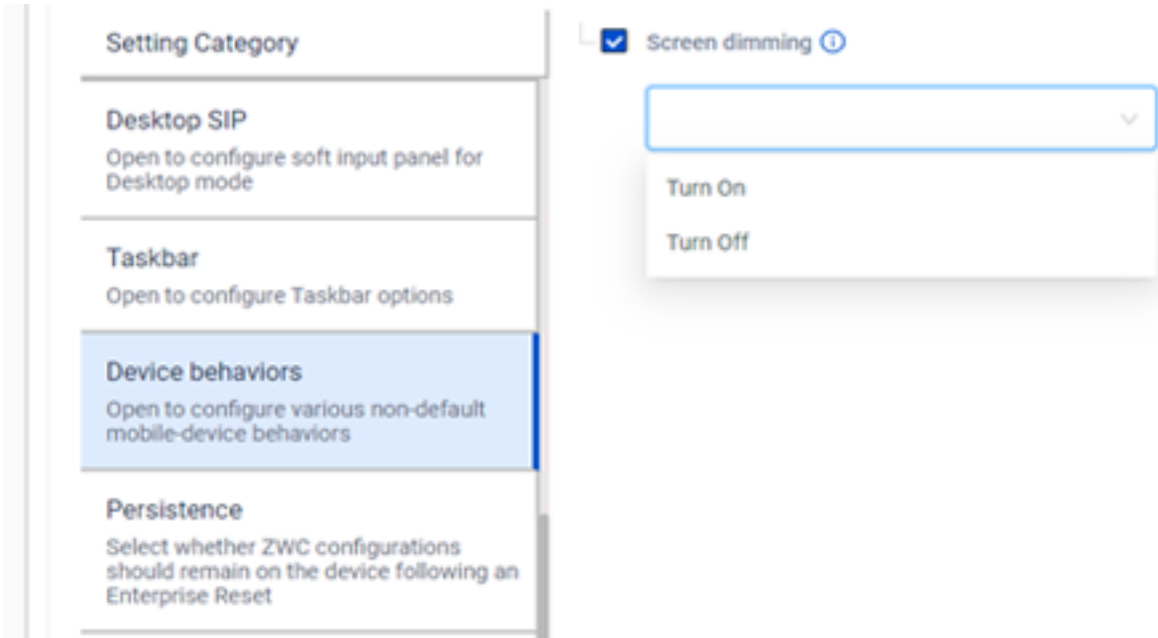
Enabling or Disabling the All Applications Icon

This setting allows the administrator to prevent users from accessing applications on the desktop home screen from the All Applications button on the taskbar. When the All Applications button is disabled, the user can access or launch applications from the shortcuts displayed on the desktop, notification panel, status icons, and home screen unless prohibited by the administrator.



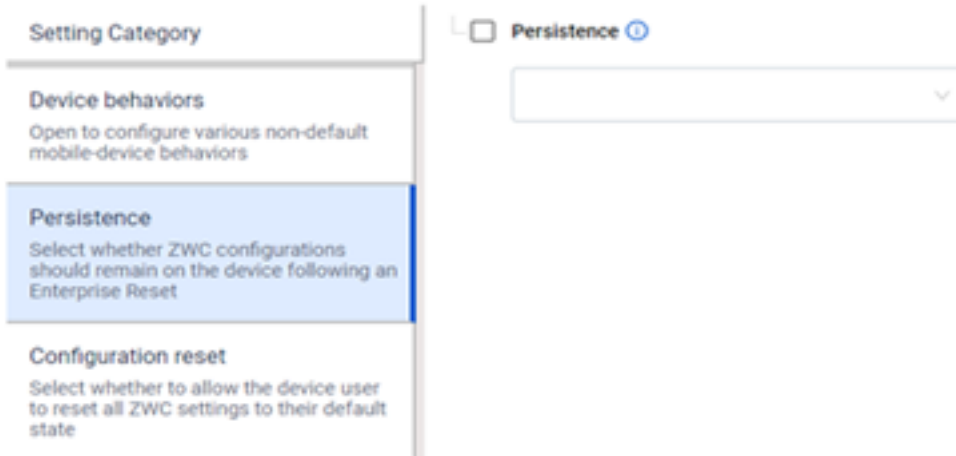
Configuring Device Behavior

Administrators can configure whether the mobile device screen is dimmed upon docking by turning this option on or off from the menu. This setting is helpful for use cases where work is being done exclusively on the external monitor, and the administrator does not want to distract the user with content that could display on the device screen or the administrator seeks to protect potentially sensitive data from being displayed on the device screen. Wake the device from the dim setting by pressing the power button.



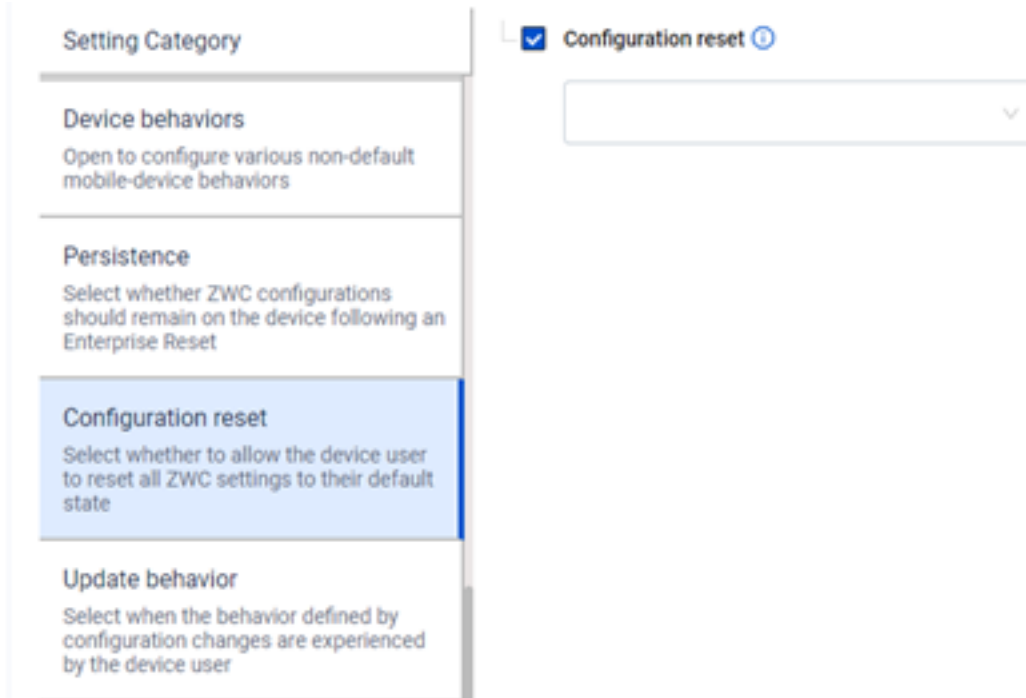
Enabling Persistence

Determine whether Zebra Workstation Connect configurations should remain on the device following an Enterprise Reset by selecting Turn On or Turn Off from the menu.



Resetting the Current Configuration

Enable or disable the device user's ability to reset the Zebra Workstation Connect configuration to its default state.



Update Behavior

Configure when the device user experiences the behavior defined by the configuration changes.

On the next dock, waits until the device is undocked and re-docked into the cradle before the configuration changes are observed.

Selecting immediately implements the configuration changes to Zebra Workstation Connect instantly. As a result, use caution when this option is enabled, as the configuration changes could interrupt a user's workflow.

Configuration Details

Setting Category

Device behaviors
Open to configure various non-default mobile-device behaviors

Persistence
Select whether ZWC configurations should remain on the device following an Enterprise Reset

Configuration reset
Select whether to allow the device user to reset all ZWC settings to their default state

Update behavior
Select when the behavior defined by configuration changes are experienced by the device user

Version
Enter a version number (integers only) to identify the config being pushed

Update behavior ⓘ

Select when the behavior defined by configuration changes are experienced by the device user

On Next Dock

Immediately



NOTE: New configuration behaviors cannot be implemented immediately on L10 devices.

Versioning

Enter a version number to identify the configuration being pushed to the device ecosystem. This is useful for the administrator to manage different configurations by providing an identifier.



NOTE: Only integers are accepted as a value for the version.

Setting Category	<input checked="" type="checkbox"/> Version ⓘ
Device behaviors Open to configure various non-default mobile-device behaviors	<input type="text"/>
Persistence Select whether ZWC configurations should remain on the device following an Enterprise Reset	
Configuration reset Select whether to allow the device user to reset all ZWC settings to their default state	
Update behavior Select when the behavior defined by configuration changes are experienced by the device user	
Version Enter a version number (integers only) to identify the config being pushed	

Using the Feedback Channel

Use the Google Feedback Channel to send results in keyed application states to the EMM from pushed managed configurations to the device. Once a managed configuration is received, Workstation Connect processes the configuration to validate the data and sends feedback to the EMM indicating if Workstation Connect accepted or rejected the data. After validating the configuration data, Workstation Connect sends a SEVERITY_INFO or SEVERITY_ERROR as a feedback message with further information.

- SEVERITY_INFO indicates that the configuration is correct, and the confirmation message displays the changes made by applying the new configuration.
- SEVERITY_ERROR indicates that the configuration is incorrect and no change has occurred. Observe the feedback message to understand why. Make the appropriate changes and reapply the configuration.

Using Generic Intents

Zebra Workstation Connect allows administrators to define intents that can be used to employ different actions supported by Android for intra-and inter-application communication on the device. Create a shortcut for a specifically defined intent to quickly access different actions such as playing media or taking a screenshot.

Editing the Name and Description of the Configuration

When the configuration of Zebra Workstation Connect is completed, follow the steps below to apply the configurations to the corresponding devices:

1. Enter a **Name** and **Description** for the profile, or use the auto-generated name. Click **Next** to proceed.

Create New App Setup

3 Name and Description

App Setup Name
app_setup_20230117_175702
You can edit the automatically generated name.

App Setup Description
You can write down your notes, such as what this setup is for, what kind of the setup is, etc.
Please enter app setup description

Discard Previous Next

2. Review the settings. Click **Apply Now** to deploy the settings immediately or click **Save** to save the configuration for later deployment.

Create New App Setup

4 Review and Apply

App Setup Name Edit
app_setup_20230117_175702

App Setup Description Edit

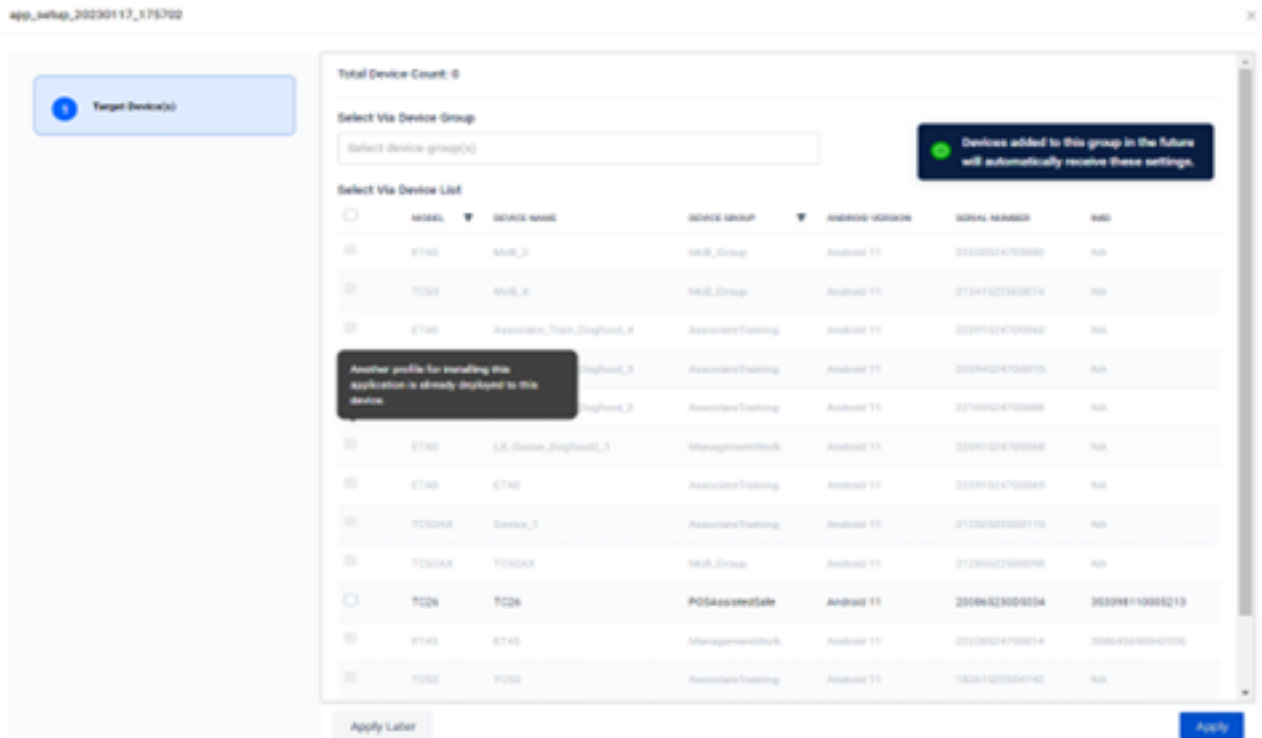
App Details Edit

APP NAME	HOSTING LOCATION	APP VERSION	DEVELOPER	PACKAGE NAME	APP DESCRIPTION
Workstation Connect	zebra		zebra	com.zebra.workstatio...	Turns a Zebra device...

Configure App Edit
Yes

Save Previous Apply Now

3. Select the device to configure and click **Apply**.



System Configuration Features

The following sections describe tools that enable the administrator to apply system configurations on the mobile device, including the ability to disable USB storage, configure user access to settings, install or uninstall applications, launch, enable or configure applications, configure keyboard layout, and configure USB scanners and screen sharing.

Administrators can implement system configurations through Staging (using StageNow) or an EMM. Depending on the EMM, configurations are implemented directly through the EMM, OEMConfig, or MX (if supported).

Preventing Automatic Application Updates

When using an EMM to deploy Zebra Workstation Connect from the Playstore, the APK is automatically updated to the latest version. The BSP is not automatically updated, causing the potential for a version mismatch between the BSP and APK.

If an administrator decides to defer updating to a new BSP and a new version of Zebra Workstation Connect is posted to the Playstore. This allows the Playstore or an EMM to automatically update Workstation Connect to the latest available version. This is not recommended because it can cause a version mismatch.

To protect against a version mismatch, use AppMgr settings to prevent the APK from automatically updating by blocking specific applications from automatically updating by package name. When this function is enabled, only the tool can update applications. To allow applications to update automatically, disable the tool.

For additional information, refer to techdocs.zebra.com/mx/appmgr/.

Keyboard Configuration

Workstation Connect supports configuration by the administrator of one or more keyboard name/layout name mappings when there is no physical keyboard connected to the cradle. The application automatically detects when a keyboard is connected and uses the mapped layout or default layout based on whether a mapping exists for the detected keyboard. This feature is helpful for use cases with multiple keyboard language layouts.

The following functions support managing keyboard mappings:

1. Add/Replace - Add a new mapping for a named keyboard or replace any existing mapping for a named keyboard (will cause any keyboard with a matching name to subsequently use that layout)
2. Remove - Remove an existing mapping for a named keyboard (will cause any keyboard with a matching name to subsequently use the default layout)
3. Remove All - Remove all existing mappings for all keyboards (causes all keyboards to use default layouts subsequently).

For additional information on configuring this option using OEMConfig, refer to techdocs.zebra.com/oemconfig/11-2/mc/#steps.step.uiStep.uiExternalKeyboardConfig

For additional information on compatible keyboard mappings and shortcut configuration, refer to techdocs.zebra.com/mx/uimgr/#external-keyboard-action

External Keyboard Num-Lock

Configure Num-lock on an external keyboard using UI Manager for use cases where users mostly use the numbers on the keyboard instead of arrow keys.

External Keyboard Shortcut Action and ID

Zebra Workstation Connect leverages UI Manager to define how the device handles shortcut-key events from the external keyboard.

First, choose an action for handling shortcut key events (do not change, ignore, perform standard handling, or send to an application running in the foreground). Then, assign the action for the specified shortcut key to employ when the key is triggered.



NOTE: Some shortcut keys are enabled by default. Use UI manager to disable shortcut keys that you do not use and may interrupt your workflow.

Password Characters Show/Hide

UI Manager controls whether each password character is displayed briefly on the screen as it is entered; otherwise masked at all times. This parameter controls the Security & Location function of the Settings panel.

USB Scanner Configuration

Workstation Connect supports using a USB scanner configured via an appropriate system configuration. Administrators can also configure specific barcode input options within a Datawedge profile for use when scanning.



NOTE: Barcode scanners connected to the cradle must be set up in SSI mode to function correctly with Workstation Connect.

Refer to the product-specific Programmer's Reference Guide at zebra.com/support for information about switching modes.

For additional information, refer to techdocs.zebra.com/datawedge/11-2/guide/input/barcode/#scannerselection

Remote Control and Screen Share

Administrators can choose which screen is used to view standard collaboration tools. This feature is helpful for use cases where the user seeks to share information on the external monitor with a colleague or customer.

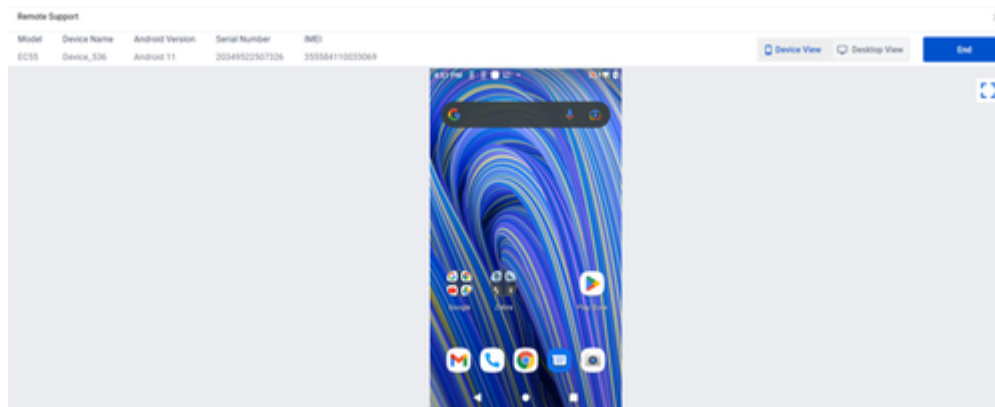
Zebra DNA Cloud version 2.7 or higher provides the ability to remote control a user's mobile device or desktop home screen.

To enable this functionality using Zebra DNA Cloud:

1. Navigate to the **My Devices** screen and click **Remote Support**.

Model	Device Name	Device Group	Android Version	Serial Number	IMEI	BATTERY HEALTH	ACTIONS
TC15	Device_75		Android 11	22110524700371	35428389023238	🔋	Remote Support (S) Lock Device (S)
EC55	Device_74		Android 11	20349322307326	355584110033069	🔋	Remote Support Lock Device
TC73	Device_73	NEW_DEMO_GROUP	Android 11	22284522300073	NA	🔋	Remote Support Lock Device
TC15	TC15	All Device	Android 11	20022524780222	35428389004738	🔋	Remote Support (S) Lock Device (S)
TC58	Zebra_Services	Group	Android 11 Update 02	22094922300130	NA	🔋	Remote Support Lock Device

2. Observe the **Remote Support** window to view the device screen and device information to control the device remotely through the browser window.



Support for remote control is dependent upon the tool; consult the tool vendor to determine compatibility. If the tool supports remote control, ensure that you are using the latest version of the EventInjectorService. You must grant access using AccessMgr. For additional information on using

AccessMgr, refer to techdocs.zebra.com/stagenow/2-9/csp/access/. The process for each application is specific to the tool and its vendor. Consult the tool vendor to understand the process specific to the tool you intend to use.



NOTE: EventInjectionService version 4.8.2 or higher is required to use the dual-screen remote control on Zebra Workstation Connect.

Some Remote Control and collaboration tools may offer an integrated facility to select which screen to view/control or view/control both screens simultaneously. When a given tool does not support this, Zebra provides a means to do so from outside such tools.

For additional information, refer to techdocs.zebra.com/oemconfig/11-2/mc/#steps.step.displayStep.

Administrators can connect to the device, view, and control that device's screen for use cases requiring remote assistance. This capability is helpful for use cases where a user must relinquish the application's control to allow a different user to complete a specific task.

For additional information, refer to techdocs.zebra.com/mx/displaymgr/.



NOTE: Remote viewing and remote control with device screen rotation are not supported on ET5X devices.

Supporting Zebra Enterprise Applications

Enterprise Browser and Enterprise Keyboard enhance the user experience when utilized with Zebra Workstation Connect. These applications integrate seamlessly with Zebra Workstation Connect, whereas third-party applications may necessitate additional steps for full customization. For example, Enterprise Browser is an industrial browser that provides the tools to rapidly build device applications for barcode scanning, signature capture, payment processing, and printing on all Zebra-supported devices.

For additional information on Enterprise Browser, refer to techdocs.zebra.com/enterprise-browser/3-2/guide/about/

For additional information on Enterprise Keyboard, refer to techdocs.zebra.com/mx/enterprisekeyboardmgr/

Configuring the Audio UI

Configure audio settings using the AudioVolUIMgr CSP. For additional information about using the AudioVolUIMgr, refer to techdocs.zebra.com/stagenow/5-4/csp/audiomgr/. This method allows administrators to set a minimum and maximum volume setting that the user cannot go below or exceed.

For additional information on configuring this option using OEMConfig, refer to: techdocs.zebra.com/oemconfig/11-2/mc/#steps.step.audioStep.

Best path routing determines the audio output of the application. For additional information on preferred path configurations, refer to the Audio Manager CSP techdocs.zebra.com/stagenow/5-4/csp/audio/.

If the administrator does not configure a specified audio configuration, the default Android audio settings are enabled.

Review the pathway outlined below to understand how the application prioritizes audio outputs.

Best Available Audio Output Paths

Suppose there are specific audio paths that the administrator does not intend to use. In that case, configure the best audio path to ensure that specific paths are unavailable to the user. Selecting a specific audio path can reduce frustration for users that might have to override an incorrect choice over and over.

The user can change the audio path from the Desktop Audio Panel. However, the user's choice may be overridden upon a dock or undock event, depending upon the administrator's configuration.



NOTE: Preventing an audio path from being chosen as optimal does not restrict the user from overriding that path. Instead, it prevents the system from selecting it automatically.



NOTE: Each time the set of audio devices changes (including docking and undocking), the best path routing recalibrates and overrides any previous setting implemented by the user.

Android has a specific methodology for best path routing that is automatically applied if the administrator does not change the default configuration.

1. Cradle/Dock (USB is unavailable upon docking the device)
 - a) Headset
 - b) Headphones/speaker
2. Mobile Device Analog (3.5mm - treated as a USB headset)
 - a) Headset
 - b) Headphones
3. Bluetooth Connected Device
 - a) Headset
 - b) Headphones/speaker
4. Monitor (HDMI is unavailable upon docking)
 - a) Headphones/speaker (USB or 3.5mm)
 - b) Integrated Speaker
5. Mobile Device Headset (Unavailable upon docking)
 - a) Integrated Microphone
 - b) Integrated Speaker
6. Mobile Device Speakerphone

Optimizing User Access to Applications

Many EMMs provide ways for administrators to configure user access to application settings to fit a specific use case. The tables below outline common access points to applications, ways that EMMs enable or disable their visibility to users, and strategies to use Zebra Workstation Connect to leverage them based on common use cases for specific applications by administrator configuration settings.

Table 2 Administrator Configuration Settings

Configuration Number	Administrator Configuration Setting
1	Disable Application behaviors > Taskbar Move to Device
2	Disable Application behaviors > Taskbar Move to Desktop
3	Disable Application behaviors > Taskbar Icon
4	Disable Application behaviors > All Apps
5	Disable Application behaviors > Create Shortcut
6	Disable Application behaviors > Launch Shortcut
7	Disable Application behaviors > Notification
8	Disable Application behaviors > On Undocking > Stop

Table 3 Application Settings Strategy

Category	Description	Administrator Configuration Strategy
A	Applications intended to run on both primary and secondary screens.	Additional optional administrator configurations may support the use case.
B	Applications intended to run only on the secondary monitor	Administrator configuration 1 or 3
		Administrator Configuration #8
		Block the application on the primary launcher based on the primary launcher settings.
C	Applications intended to run on mobile only.	Administrator configuration #2 or #3
		Administrator configuration #4
		Administrator configuration #5
		Administrator configuration #6
		Administrator configuration #7
		Do not create a shortcut for the application by default.
		Do not create a rule to move the application to the secondary screen when docking.
D	Applications that do not run on primary or secondary screens.	Administrator configuration #3
		Administrator configuration #4
		Administrator configuration #5
		Administrator configuration #6
		Administrator configuration #7
		Do not create a shortcut for the application by default.

Table 3 Application Settings Strategy (Continued)

Category	Description	Administrator Configuration Strategy
		Block the application on the primary launcher based on the primary launcher settings. Do not create a rule to launch the application to the primary or secondary screen when docking or undocking.
E	Applications that are intended to always run in the background without any interaction with the end user	Administrator configuration #3 Administrator configuration #4 Administrator configuration #5 Administrator configuration #6 Administrator configuration #7 Do not create a shortcut for the application by default. Block the application on the primary launcher based on the primary launcher settings. Do not create a rule to launch the application to the primary or secondary screen when docking or undocking.
F	Primary launchers that utilize Lock Task Mode (for example, Airwatch Launcher)	Use the EMM to allow the ZWC and DisplayLink applications. Use the EMM to allow every application that is in application categories A, B, or C. Administrator configuration #3 Administrator configuration #4 Administrator configuration #5 Administrator configuration #6 Administrator configuration #7 Do not create a shortcut for the application by default. Do not create a rule to move the application to the secondary screen when docking.

Guidelines for Kiosk Behavior

In some cases, using Zebra Workstation Connect to implement kiosk-like application behavior is desirable. Consider a use case where the UI presented by Zebra Workstation Connect is exposed to the public, such as in a physical kiosk located within a retail establishment where customers interact with the UI to perform

some targeted function(s). For example, the user might browse deals, print coupons, search for items in stock, review item prices, and so on.

In this case, limiting the options for customer interaction with the UI is desirable to prevent mistakes or malicious actions. For example, an administrator might want to lock the user into a task-specific application and prevent the user from exiting or launching any other applications.

Administrator Configuration	Guidelines for Use
Edit Desktop UI Elements > Hide Shortcuts	Select whether shortcuts display on the secondary screen
Edit Desktop UI Elements > Hide Wallpaper	Select whether a wallpaper displays on the secondary screen
Edit Desktop UI Elements > Hide Launcher Context Menu	Select whether to display a Context Menu when right-clicking on the desktop
Edit Desktop UI Elements > Hide Notification Panel	Select whether the Notification Panel displays on the secondary screen
Edit Desktop UI Elements > Hide Taskbar	Select whether a Taskbar displays on the secondary screen
Disable Freeform Windows	Select whether applications on the secondary screen run within a movable, resizable window.
Disable Application behaviors > Taskbar Move to Device	Select whether a device user can move all or specified activity for the application from the desktop to the device.
Disable Application behaviors > Taskbar Move to Desktop	Select whether a device user can move all or specified activity for the application from the device to the desktop.
Disable Application behaviors > Taskbar Icon	Select whether a taskbar icon is shown for the application when running.
Disable Application behaviors > All Apps	Select whether a device user can launch all or specified activity for the application from the desktop all apps panel.
Disable Application behaviors > Create a Shortcut	Select whether a device user can access all or specified activity for the application to be added as a shortcut
Disable Application behaviors > Launch Shortcut	Select whether a device user can launch all or specified activity for the application to be added as a shortcut
Disable Application behaviors > Notification	Select whether a device user can move all or activities for the application from a notification in the notification panel
Disable Application behaviors > On Undocking > Stop	Select whether a device user can move all or specified activity upon an undocking event
Taskbar > All Apps Button > Disable	Select whether clicking the All Apps button displays the All Apps panel.

Administrator Configuration	Guidelines for Use
Taskbar > Mobile App Icons > Hide	Select whether icons of running mobile applications are displayed



NOTE: Any time a physical keyboard is connected, keyboard shortcuts initiated from the keyboard will perform their normal functions. In many cases, this could provide the user with inappropriate functionality. In such cases, it may be ideal to avoid providing access to the keyboard to the user. For example, a touch monitor might be used instead of a keyboard to limit user access to functions offered on-screen by an application.



NOTE: The PrintScreen keyboard shortcut can capture a screenshot; however, no toast notification displays.



NOTE: When applications run with this specific behavior, users can still use the contextual menu by right-clicking the desktop shortcuts or the applications running on the Taskbar.

The following configurations could collectively achieve complete kiosk lockdown or in subsets to satisfy other less extreme use cases.

Zebra Workstation Connect has a collection of configurations that can strategically limit the visibility of specific UI elements in various ways. Together, these configurations define the UI sufficiently to implement a stand-alone kiosk safely. An administrator may choose to apply some or all available configurations. If users require additional access, relaxing the restrictions to suit their needs could be helpful.

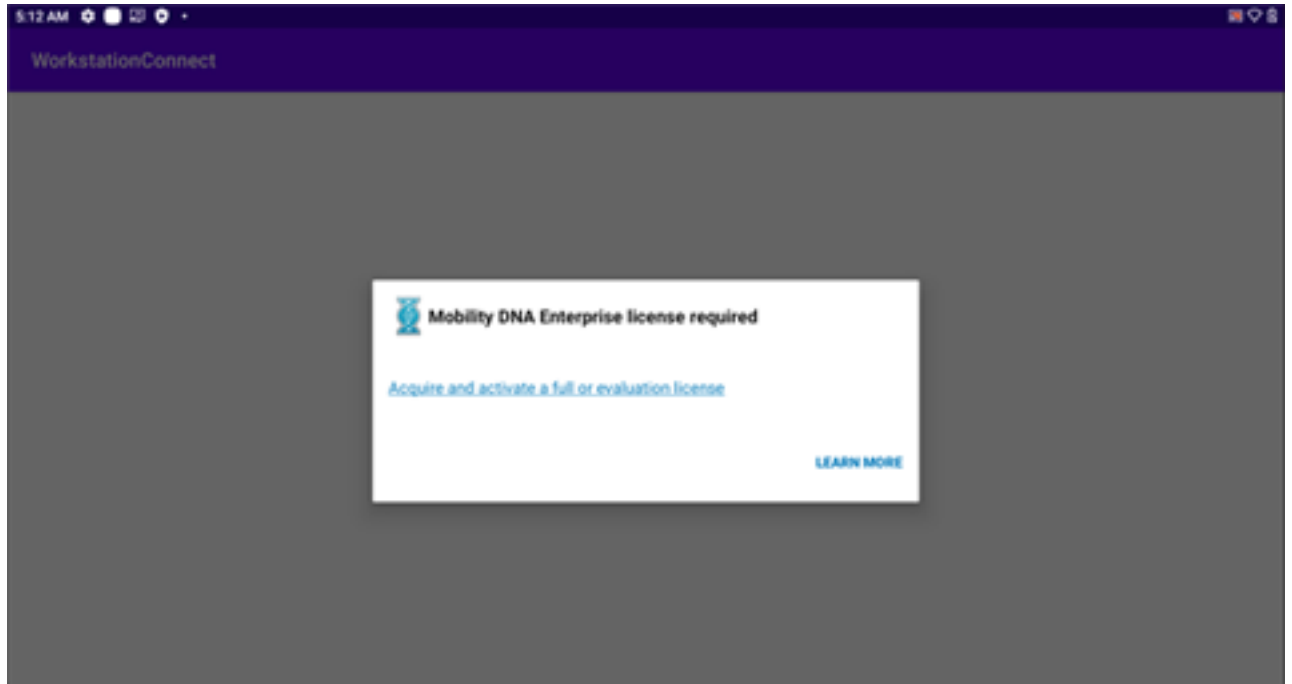
To achieve kiosk behavior:

- Turn freeform windows off by forcing an application to run maximized without a window control bar. This would make more screen space available for displaying application content and ensure that the user could not close or minimize the application because the buttons are on the window control bar, which is not shown. This would also ensure that the user could not resize the application, exposing the desktop or other applications. To exit such an application, the user would typically need to complete that application's task(s) to its satisfaction. At that point, the application could elect to exit, exposing the desktop or launch another application to take its place.
- Turn the Taskbar off by preventing the user from seeing what applications are running and from using the icons on the Taskbar to close, reset, or switch between those applications.
- Control which shortcuts are displayed on the desktop and disable the user's ability to create and modify shortcuts. This allows the user to launch applications approved for use but prevents the user from launching any applications not approved for use.

For use cases that do not require complete kiosk behavior, it may be optimal to block selected items from the Launcher Context Menu (such as Shortcut or Wallpaper) rather than block access to the entire Launcher Context Menu. Other items on the Launcher Context Menu (such as Suspend and Lock device) can be helpful for users to have access to in case slight adjustments are needed that do not necessitate intervention from the administrator.

MDNA Licensing

Zebra Workstation Connect is included premium-tier devices at no additional cost. To use Zebra Workstation Connect on value-tier devices such as ET4X or TC21/26, you must acquire an MDNA license and deploy it as part of the system configuration. This step is required to activate Zebra Workstation Connect, and the application does not run on the device if the license is not on the device.



For more information, go to techdocs.zebra.com/licensing/process/



NOTE: The device must reboot after the license is activated.

L10 Tablet Considerations

When using Workstation Connect with an L10 tablet, ensure that you are familiar with the device features and its constraints when docked in a cradle.

For additional information, refer to the L10 tablet support page on zebra.com/support

Version Support

A device-initiated feature incompatible with the Zebra Workstation Connect version that you are using might still present the UI. If you attempt to use a feature that is present in the UI but not supported in the version of the application that you are using, a dialog box displays informing you that your version of Workstation Connect does not support the feature you are trying to use.

Troubleshooting

This section describes potential issues that could arise while using Zebra Workstation Connect and solutions that could correct the problem, such as undocking and docking the device or performing a reboot.

Table 4 Troubleshooting

Source	Problem	Cause	Solution
Device (Workstation Cradle with Mobile Computer or Tablet)	External monitor not detected.	The device is powered off when placed in the cradle and then turns on.	Remove the device from the cradle and re-insert it. The device will then detect the monitor.
	The display does not change orientation quickly.	It takes a little time for the device to recognize the monitor.	Wait for the screen to re-orientate.
		The device is not detecting the monitor.	Remove the device from the cradle and re-insert it.
	Peripheral not detected.	Display setting not set properly	Go to Settings > Display > When the device detects an external monitor. Ensure Rotate screen orientation is selected.
		Bad cable connection.	Remove the cable and re-connect.
	External monitor blank.	Screen capture is disabled by default when setting a new Device Owner.	Enable screen capture during enrollment.

