# Workstation Connect



# **Administrator's Guide**

ZEBRA and the stylized Zebra head are trademarks of Zebra Technologies Corporation, registered in many jurisdictions worldwide. All other trademarks are the property of their respective owners. © 2021 Zebra Technologies Corporation and/or its affiliates. All rights reserved.

Information in this document is subject to change without notice. The software described in this document is furnished under a license agreement or nondisclosure agreement. The software may be used or copied only in accordance with the terms of those agreements.

For further information regarding legal and proprietary statements, please go to:

SOFTWARE: <u>zebra.com/linkoslegal</u> COPYRIGHTS: <u>zebra.com/copyright</u> WARRANTY: <u>zebra.com/warranty</u>

END USER LICENSE AGREEMENT: zebra.com/eula

#### **Terms of Use**

#### **Proprietary Statement**

This manual contains proprietary information of Zebra Technologies Corporation and its subsidiaries ("Zebra Technologies"). It is intended solely for the information and use of parties operating and maintaining the equipment described herein. Such proprietary information may not be used, reproduced, or disclosed to any other parties for any other purpose without the express, written permission of Zebra Technologies.

#### **Product Improvements**

Continuous improvement of products is a policy of Zebra Technologies. All specifications and designs are subject to change without notice.

# **Liability Disclaimer**

Zebra Technologies takes steps to ensure that its published Engineering specifications and manuals are correct; however, errors do occur. Zebra Technologies reserves the right to correct any such errors and disclaims liability resulting therefrom.

## **Limitation of Liability**

In no event shall Zebra Technologies or anyone else involved in the creation, production, or delivery of the accompanying product (including hardware and software) be liable for any damages whatsoever (including, without limitation, consequential damages including loss of business profits, business interruption, or loss of business information) arising out of the use of, the results of use of, or inability to use such product, even if Zebra Technologies has been advised of the possibility of such damages. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

# **About This Document**

#### Introduction

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



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

# **Configurations**

This guide covers the following configurations:

Configuration	Description	Device Compatibility
CRD-TC5X-1SWS-01	Workstation Docking Cradle Kit with Std Cup, HDMI, Ethernet and multiple USB Ports.	TC52ax Mobile Computers
	Included in kit:	
	Cradle (CRD-TC5X-1SWS1-01),	
	Power Supply (i.e. PWRBGA12V50W0WW)	
	DC Cable (i.e. CBL-DC-388A1-01).	
	Country specific AC line cord sold separately.	

## **Service Information**

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

When contacting support, please have the following information available:

- · Serial number of the unit
- Model number or product name
- Software/firmware type or version number

#### **About This Document**

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.

This document outlines the steps necessary to create a StageNow Profile and generate barcodes that enable specific configurations on the mobile device to be extended to the desktop via Workstation Connect. The following sections describe barcodes that enable the administrator to disable USB storage, configure user access to settings, install/uninstall, launch and enable/configure applications.

System and application configurations on the mobile computer are applied to the Zebra Workstation Connect, these options include:

- Disable USB storage to prevent the usage of USB Flash drives connected to the Workstation Cradle.
- Restrict the end user to access to Settings on the mobile device.
- Restrict the end user ability to launch applications.
- Enable/Disable applications on the mobile device.
- Install/Uninstall applications on the mobile device.
- Launch applications on the mobile device screen.

The configurations above are applicable to both the mobile device and on the external monitor. These configurations can be implemented on the device via StageNow following the instructions in this section.

## Steps to Create a StageNow Profile/Barcodes

To create a StageNow profile or barcode, download StageNow: zebra.com/us/en/support-downloads/software/utilities/stagenow.html

To complete the profile and create a barcode:

- 1. Login to StageNow with administrator credentials.
- 2. Click Create New Profile on the Home page.
- 3. Select the appropriate MX version from the installation wizard window.
- 4. Select **Xpert Mode** from the wizard list and click **Continue**.
- 5. Enter the profile name and start.
- **6.** Select the appropriate setting from the settings list and click to add.
- 7. Complete the profile and create a barcode as required.
- 8. Scan the barcode using the StageNow Client on the device to stage the device.

# **StageNow Barcode Descriptions**

The following sections describe barcodes that enable the administrator to disable USB storage, configure user access to settings, install/uninstall, launch, and enable/disable applications.

### **Disable USB Storage**

The mobile computer supports functionality to block USB external storage through StageNow. The administrator can choose to restrict external storage from USB, which is not allowed to be connected to the device. This action blocks USB storage without interfering with other types of USB peripherals such as a keyboard, mouse, or headset. This option is presented on the figure below.

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





Profile Name:Disable\_UsbExternalStorageUsage Barcode Type:PDF417

Minimum Compatible MX Version:10.2

Administrator Instructions: Scan this barcode to disable USB external Storage Usage at the device, USB devices won't get detected

Scan Barcodes with StageNow Client:



## **Restricting User Access to Settings**

The mobile computer supports functionality to restrict access to settings via a menu, taskbar, or an application to the user through the Stage Now application. The administrator can choose to restrict all settings on the application or a subset of them. These changes are reflected on the settings of the application when the user opens the application directly on device or from Zebra Workstation Connect on the external monitor as well. This option is presented on the following images.

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

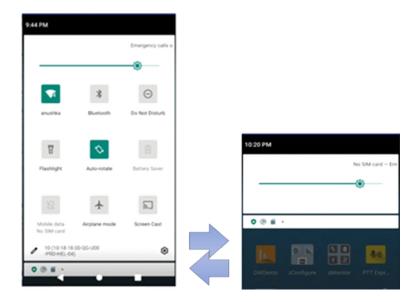


Examples of the restricted Settings are presented below:

Restrict the user's access to settings by hiding the Settings Icon on the notification:



Restrict user access to settings by disabling Quick Settings on the notification panel:





Profile Name:Disable\_QSettingsIconOnNotificationPanel Barcode Type:PDF417

Minimum Compatible MX Version:10.2

Administrator Instructions: Scan this barcode to Disable quick Setting icons on device Notification panel

Scan Barcodes with StageNow Client:



### **Restricting User Access to Launch Applications**

The mobile computer supports the functionality to create a StageNow barcode using the AccessMgr settings operation mode as single user with Allow List. In **Add packages**, add the package name to the allow list to ensure that the added applications are only installed onto the device, and other applications are not able to be installed.



**NOTE:** Allow List applies to user applications only; it has no effect on system applications that come pre-installed on the device.

To control aspects of system applications, refer to techdocs.zebra.com/mx/appmgr/.

Allow List is used to control whether a user is permitted to install an application, but it cannot control whether an application can be installed using AppMgr. Allow List can also be used to control whether a user application can be launched once it is installed. These changes are pushed directly onto the mobile device or from Zebra Workstation Connect to the external monitor.

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

#### **Enable or Disable Applications on the Mobile Device**

The mobile computer supports the functionality to create a StageNow barcode using AppMgr settings with the option to enable or disable applications on the mobile device. From the application action option with application package name, generate and scan the barcode using the StageNow client on the device to observe that the specific application is disabled. These changes are pushed directly onto the mobile device or from Zebra Workstation Connect to the external monitor.

For Example: Disable Calculator

With AppMgr, use the package name of any application to disable it. In this case for the calculator application, use com.google.android.calculator with the **Disable Application** option, or scan the barcode below.



Profile Name:Disable\_CalculatorApp Barcode Type:PDF417

Minimum Compatible MX Version:10.2

Administrator Instructions: Scan this barcode to disable calculator App on the device, Calculator will disappper from the app's list

Scan Barcodes with StageNow Client:



Similarly, enable the calculator using the **Enable Application** option with the package name in the setting. Scan the barcode below to enable the calculator application on the device.



Profile Name:Enable\_CalculatorApp Barcode Type:PDF417

Minimum Compatible MX Version:10.2

Administrator Instructions: Scan this barcode to enable calculator App on the device, Calculator will appper in app's list

Scan Barcodes with StageNow Client:



The settings application (com.android.settings) can also be disabled from the application list if users should not be permitted to have access to the settings on the device.

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

#### Install/Uninstall Applications on the Mobile Device

The mobile computer supports the functionality to create a StageNow barcode using AppMgr settings with the option to install or uninstall applications on the mobile device. From the application action option with application package name, generate and scan the barcode using the StageNow client on the device to observe that the specific application is installed.



NOTE: In the scenario above, the APK should be copied or previously installed on the mobile device.

Use the FileMgr settings to bring the APK onto the device by connecting to a network and using AppMgr to install the APK.

For additional information on FileMgr, refer to techdocs.zebra.com/mx/filemgr/

In addition, the mobile computer supports the functionality to create a StageNow barcode using AppMgr settings with the ability to uninstall an application from the **Application Action** options. Using the application package name, generate and scan the barcode using the StageNow client on the device to ensure that the application is uninstalled. These changes reflect directly on the mobile device or from the Zebra Workstation Connect to the external monitor.

For additional information on installing and uninstalling applications on the mobile device, refer to techdocs.zebra.com/mx/appmgr/.

#### Launch Applications on the Mobile Device Screen

The mobile computer supports the functionality to create a StageNow barcode using AppMgr settings with available options to Launch an application from Application action options with application name, generate and scan the barcode using StageNow client on the device to see that the application is launched.

For additional information on installing and uninstalling applications on the mobile device, refer to techdocs.zebra.com/mx/appmgr/



**NOTE:** Application launches on mobile terminal side, not on the external monitor side.

# Zebra Workstation Connect Customization Administrator Configurations

Zebra Workstation Connect allows users to customize several of its features on the desktop home screen to control and tailor the environment presented to the end user. Configurable settings include:

- Set-up the external monitor orientation
- · Set-up the external monitor resolution
- · Configure status icons presented on the taskbar
- Configure the wallpaper utilized on the Home Screen
- Configure shortcuts to be presented to the user on the desktop Home Screen
- Configure the disposition of applications when the device is undocked from Zebra Workstation Cradle
- Configure the disposition of applications when the device is docked in the Zebra Workstation Cradle

# Enterprise Mobility Management (EMM) Support for the Remote Configuration of Zebra Workstation Connect

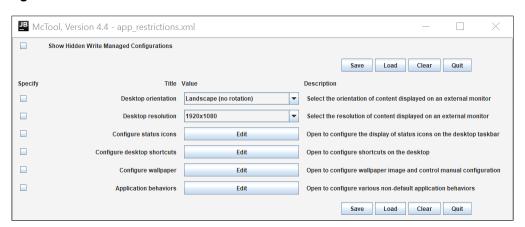
The Zebra Workstation Connect Desktop Launcher APK is available through the Google Play Store, and supports full production deployment, configuration, and activation using standard EMM tools. EMM tools can configure Zebra Workstation Connect via Android Managed Configurations. The configurations and the steps to implement them are described in this section.



**NOTE:** This section describes an EMM tool developed by Zebra. In a standard Enterprise Mobility Management (EMM) set up, the user interface driven by the Application Restriction schema would differ from the images below.

Administrator configurable settings include desktop orientation and resolution, status icons, desktop backgrounds, and application behavior.

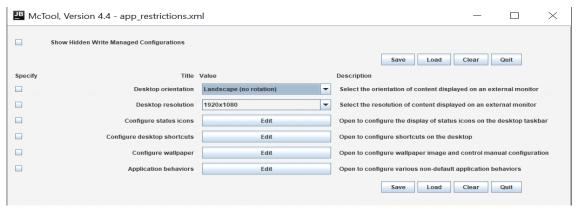
Figure 1 Zebra EMM Tool



#### **Desktop Orientation**

Zebra Workstation Connect offers a method for the administrator to control the orientation on secondary screen (external monitor).

Figure 2 Administrator Configurable Settings



Configurable options include:

- Landscape (no rotation)
- Portrait (90 degrees left)
- Landscape Inverted (180 degrees)
- Portrait Inverted (270 degrees)

#### **Desktop Resolution**

Zebra Workstation Connect offers a method for the administrator to control the resolution on a secondary screen (external monitor) by selecting a specific resolution from the dropdown.

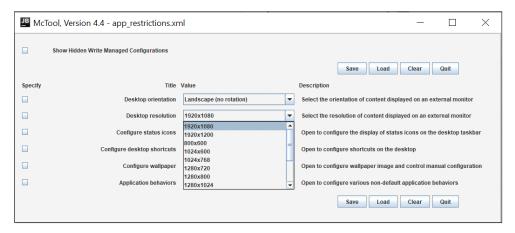


**NOTE:** Do not use the administrator configuration of **Orientation and Resolution of External Monitor** when using **Mirror Mode** to avoid inconsistent/unexpected behavior. Do not switch back to **Mirror Mode** from **Desktop Mode**.



**NOTE:** In **Mirror Mode**, the supported resolutions may be limited to the resolutions supported by the mobiledevice device, since both must be set to match. Supported resolutions may also be limited by the capabilities of the attached external monitor.

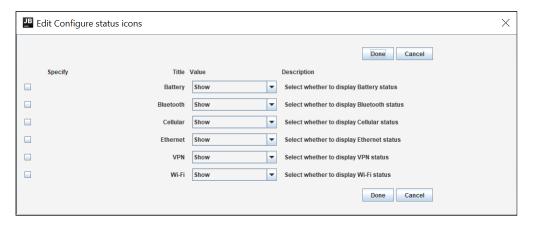
Figure 3 Configure Desktop Resolution



#### **Status Icons Configuration**

Zebra Workstation Connect enables the administrator to configure which icons are shown on the **Status** area of the taskbar. By default, the following status icons are displayed on the taskbar: battery, Bluetooth, Cellular, Ethernet, VPN, Wi-Fi. The administrator can select whether to show or hide each status icon on the taskbar as presented on the image below.

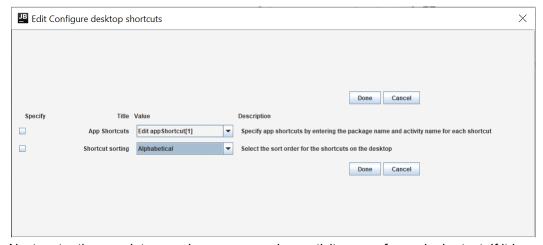
Figure 4 Status Icon Configuration Options



#### **Desktop Home Screen Shortcut Configuration**

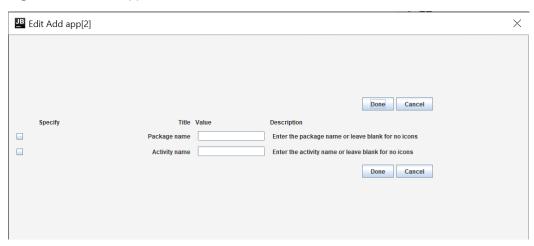
To edit an application shortcut, select the edit application shortcut option from the dropdown.

Figure 5 Configure Application Shortcuts



Next, enter the mandatory package name and an activity name for each shortcut. If it is preferred to have no shortcuts on the desktop launcher, leave this field blank. To sort the applications, select alphabetical or time/date added from the dropdown.

Figure 6 Edit an Application Shortcut



#### **Configure the Home Screen Background**

The administrator can change the **Desktop Wallpaper** to any supported image file stored on the device, including any downloaded to the device by the administrator by using the device path and file name of the image file to set as **Desktop Wallpaper**.



**NOTE:** The recommended maximum background resolution is 4000 x 2500.

**Allow or Disallow User Control:** Zebra Workstation Connect allows the administrator to configure whether the user is allowed to set the **Wallpaper**.

Figure 7 Wallpaper Configuration



#### **Application Orientation Configuration**

Zebra Workstation Connect allows administrators to configure the criteria that is used to determine the automatic handling of applications when the device is docked or undocked from a supported cradle or dock.

Figure 8 Edit Application Behavior

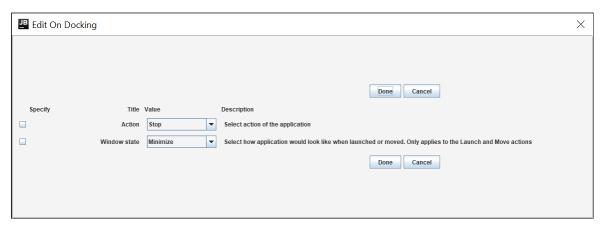


- a. Specify the docking criteria for the application by giving the **Action** and the **Window State**. Next, select the **Action** of the application. The available actions are:
  - Stop
  - Launch
  - Move



**NOTE:** The application then launches in the foreground.

#### Figure 9



**b.** Configure how the application looks when launched or moved by selecting its **Window State**. This setting only applies to **Launch** and **Move** actions.



**NOTE:** If the docking criteria is not specified by the administrator, the default docking behavior for all applications keeps the application on the mobile device screen and presents the corresponding icons on the taskbar.

c. Set the undocking criteria for the application by only specifying the Action. The Window State is not required because the default application state is set to Maximize. If the undocking criteria is not specified by the administrator, the default undocking behavior for all applications remains set to Minimize.

Figure 10 Undocking Criteria



