



ZEBRA Workstation Connect App Installation Guide

[Home](#) » [ZEBRA](#) » ZEBRA Workstation Connect App Installation Guide 

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Contents

- [1 Terms of Use](#)
- [2 About This Document](#)
- [3 Installation](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)

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About This Document

About This Document

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

Configurations

This guide covers the following 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 kit:</p> <ul style="list-style-type: none"> • Cradle • (CRD-EC5X-1SWS-02), • Power Supply (i.e. PWRBGA12V50W0WW) • DC Cable (i.e. CBL-DC-388A1-01) Country specific AC line cord sold separately. 	EC50 and EC55 Mobile Computers
CRD-TC5X-1SWS-01	<p>Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports.</p> <p>Included in kit:</p> <ul style="list-style-type: none"> • 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. 	TC52, TC52x, TC57, TC57x, TC52ax, TC52x-HC and TC52ax-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 kit:</p> <ul style="list-style-type: none"> • Cradle with Rugged I/O Adaptor (CRD-ET5X-1SCOM2R) • Cradle (CRD-ET5X-1SCOM1) • Power Supply (i.e. PWRBGA12V50W0WW) • DC Cable(i.e. CBL-DC-388A1-01) Country specific AC line cord sold separately. 	ET56 Mobile Computers

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, DS3608-SR, and DS9308-SR



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.

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/firmware type or 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.

Installation

This document outlines the various methods to install Zebra Workstation Connect onto a mobile device. The sections below describe installing the application manually, via the StageNow application, or via XML.

After installing the Android 11 OS specific to the mobile device being used, the device uses Mirror Mode as the default when docked in a Zebra Workstation Cradle and connected to a HDMI monitor. If Mirror Mode is the required view mode, no further actions are required.

Zebra Workstation Connect Installation

Users can install the Zebra Workstation Connect on the mobile device by downloading via StageNow and following the instructions in Installing via StageNow, by utilizing XML for EMM and following the procedure outlined in Installing via XML or manually by following the steps outlined in Manual Installation

Installing via StageNow

Prior to the steps below, install StageNow v.5.2.0.1032 or higher and create a StageNow profile.

1. Configure an applicable network where the Zebra Workstation Connect APK can be downloaded over Wi-Fi.

2. Download the Zebra Workstation Connect APK to a suitable location on the mobile device using FileMgr. Refer to techdocs.zebra.com/stagenow/2-2/csp/file/ for more information about the usage of FileMgr.
3. Install the Zebra Workstation Connect APK using AppMgr. Refer to techdocs.zebra.com/stagenow/3-1/csp/app/ for information about the usage of AppMgr including installing an APK on the device.
4. Grant Zebra Workstation Connect APK permission to Display over other apps using AccessMgr. For more information, refer to techdocs.zebra.com/mx/accessmgr/. See the image below for more information about the usage of AccessMgr, including granting permissions to an application.
5. Provide the application signature of the Workstation Connect APK and attach it to the StageNow profile. For more information on generating a signature, see developer.zebra.com/blog/generating-package-signature-use-mx

The screenshot shows a web interface for configuring permissions. It has four main sections, each with a title, a help icon (?), and a dropdown menu:

- Permission Access Action:** The dropdown menu is set to "Grant Permission to an Application".
- Permission Name:** The dropdown menu is set to "System Alert Window".
- Application Package Name:** The text input field contains "com.zebra.workstationconnect.release". To the right of the field is a blue circular icon with a white percentage sign (%).
- Application Signature:** The text input field is empty and outlined in red. To the right of the field is a red circular icon with a white exclamation mark (!) and a grey circular icon with three dots (...).

6. Enable Desktop Mode on the mobile device using DisplayMgr. Refer to the image below for the DisplayMgr settings and Developer options to enable Desktop Mode.



DisplayMgr

Description: Sets display related configurations 

Create New Setting

Secondary Display Mode: ?

Do not change

Present Independent Desktop

Mirror Device Screen

Activity Resizability: ?

Do not change

All activities resizable

Follow app manifest



StageNow

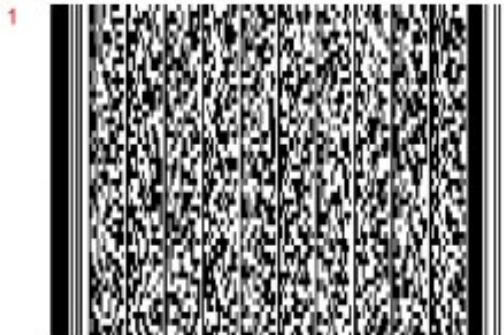
Profile Name:EnableDesktopMode_reboot

Barcode Type:PDF417

Minimum Compatible MX Version:10.2

Administrator Instructions: Scan this barcode using StageNow client to enable device desktop mode, this even reboots the device to switch from mirror mode to desktop mode

Scan Barcodes with StageNow Client:



7. Perform a device reboot prior to docking the device in the Workstation Cradle using PowerMgr.

Once the StageNow profile is created, a barcode can be generated and scanned to set up the steps above on the mobile device.

Once the device is rebooted, docked into the Workstation Cradle, and connected to HDMI monitor, the screen of the mobile device displays the home screen and allows the user to launch and run applications. Simultaneously, the external monitor displays the home screen of Zebra Workstation Connect.

Installing via XML

Use an EMM to download and install the Zebra Workstation Connect APK on the mobile device. Using an application, follow the procedure below

- Detect when Zebra Workstation Connect APK is installed.
- Submit the following XML to MX to grant the Zebra Workstation Connect APK permission to Display over other apps:

```
<!--Set permission Via AccessMgr for ZWC -->
<wap-provisioningdoc>
  <characteristic version="10.4" type="AccessMgr">
    <parm name="PermissionAccessAction" value="1" />
    <parm name="PermissionAccessPermissionName"
value="android.permission.SYSTEM_ALERT_WINDOW" />
    <parm name="PermissionAccessPackageName"
value="com.zebra.workstationconnect.release" />
    <parm name="PermissionAccessSignature"
value="MIID6TCCAtGgAwIBAgIJAJq0WgV07V6QMA0GCSqGSIb3DQEBBQUAMIGKMQswCQYDVQQG
EwJVUzERMA8GA1UECAwITmV3IFlvcmsxZzARBgNVBACMChvbHRzdm1sbGUxGTAXBgNVBAcMEEE1
vYmlsZSBDb21wdXRpbmcxGzAZBgNVBAoMElplYnJhIFRlY2hub2xvZ211czEhMBkGA1UEAwwSQ2
9tbW9uIEFuZHZHJvaWQgS2V5MB4XDTE4MTEyOTIwNTU0OV0XDTQ2MDQxNjIwNTU0OVowYoxCzAJB
gNVBAYTAlVTMREwDwYDVQQIDAHOZXCgWw9yazETMBEGA1UEBwwKSG9sdHN2aWxsZTEZMBCGA1UE
CwwQTW9iaWx1IENvbXB1dGluZzEhMBkGA1UECgwSWmVicmEgVGVjaG5vbG9naWVzMRSwGQYDVQQ
DDBJDB21tb24gQW5kcm9pZCBLZXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCwA3
jRXXIKoF3LU4gBU0XM7LAzAc9pyxHfBqRoy+uGXzIdPGKNQVqyeQKT1gLnQWz7Nz+AiFbB3axfj
pGZy8Z5gakpli8avx+ZwwST++ufEs+jhKF9XJTh0Sc9MG5Cgk9+ByAZjBLwg0XX+IPqTO+xcxG8
B1NIDOd1Ik+99MQezGn8mFS/1MMC1ynZRC+18z9Vkd+FZeFYSHU10oFBMhCjMKYAp08ZuPk/+1
QTfDTs+JPxjsBqy906vt+PnDnYIfobjaxeEbaDQvjRL1LKKq10svdcmnrKWk72Dt5XkIcTYHfE
s6wffrMiYhO3/gxhoqBuiHbNyIL9kKTwkMg2wfAgMBAAGjUDBOMB0GA1UdDgQWBBRXkmK7fyfhV
MBW0rUJvkSHm9IapDAfBgNVHSMEGDAwBRXkmK7fyfhVMBW0rUJvkSHm9IapDAMBgNVHRMEBTAD
AQH/MA0GCSqGSIb3DQEBBQUAA4IBAQB0BZ1Duu0U59p7U9pkdoS79GxhE8ALnYPkxeVX5Zq0BbS
/BWG5t+M2EyfUc2pNKqAqopfNBdyXcxuw0JyQBiyKMDHG+YtxqxdqBcDrfmsxk1gyVLH4mZvhCT
pPeUM5LivzFGdaqm4Dm2M5XG1BSDvclrUzoebDhg2VFJfRzYHnhZsBNVlcxQ/m8UUKmG15sXgIH
QCi4o0zrdRcWAnMqtxd0vzdRL2h6MTh56ICiOVG8rASXBdZmN49FjwLYFfQyetwdrmpYleTlWky
QteGCy7r5zMCXcMTRawRp5R6kP/w6FNCw3fpUs8qH1T47lhVNABQA94hkNW50Fv40xuSYOww"
/>
  </characteristic>
</wap-provisioningdoc>
```

- Submit the following XML to MX to enable Desktop Mode on the mobile device using DisplayMgr:

```
<!--Set desktop mode Via DisplayMgr-->
<wap-provisioningdoc>
  <characteristic version="10.5" type="DisplayMgr">
    <parm name="SecondaryDisplayMode" value="1" />
    <parm name="ActivityResizability" value="1" />
  </characteristic>
</wap-provisioningdoc>
```

- Submit the following XML to MX to perform a device reboot prior to docking the device into the Zebra Workstation Cradle:

```
<!--Reboot Device-->
<wap-provisioningdoc>
  <characteristic version="10.1" type="PowerMgr">
    <parm name="ResetAction" value="4" />
  </characteristic>
</wap-provisioningdoc>
```



NOTE: If other steps are implemented on the application, a device reboot is required.

Once the device is rebooted, docked into the Workstation Cradle, and connected to HDMI monitor, the screen

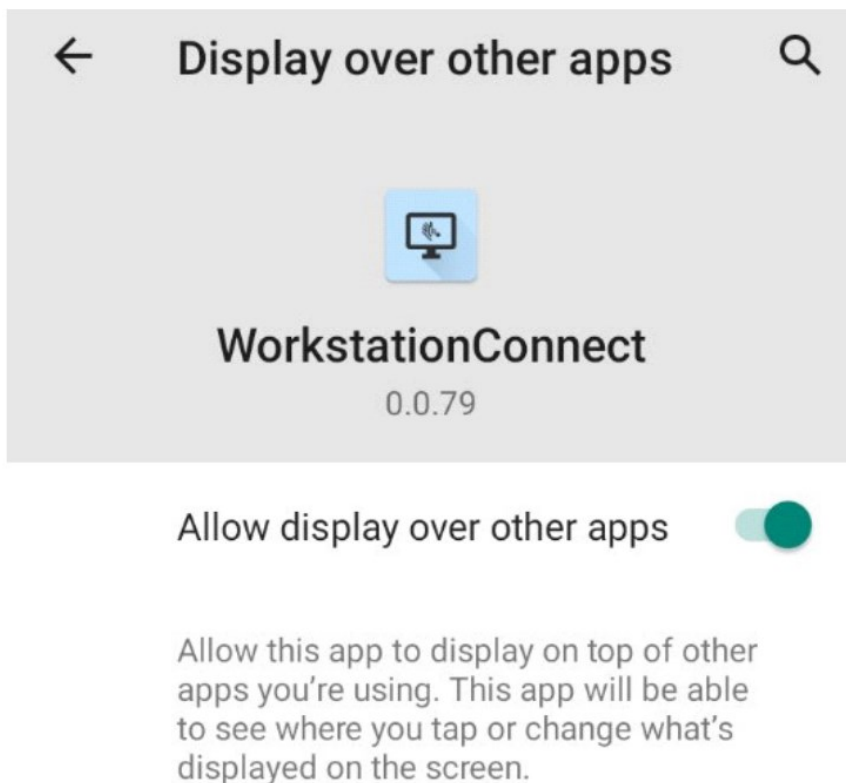
of the mobile device displays the home screen and allows the user to launch and run applications. Simultaneously, the external monitor displays the home screen of ZebraWorkstation Connect.

Manual Installation

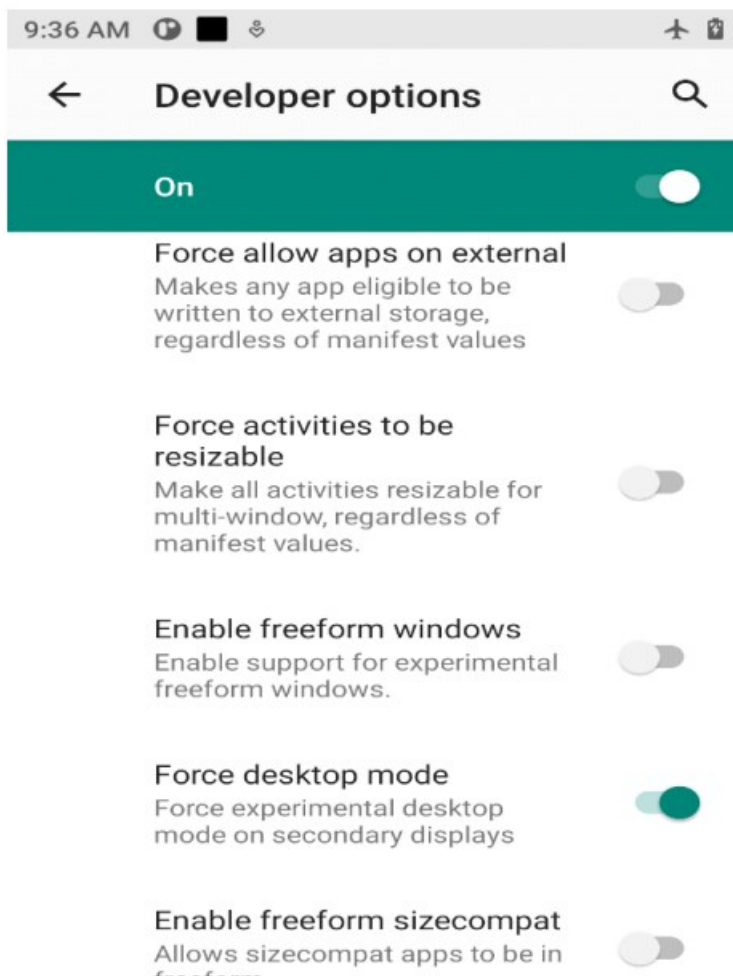
To manually install the application, follow the steps below.

1. Install the Zebra Workstation Connect APK on the mobile device. The Zebra Workstation Connect APK is required to be installed on the mobile device and provides features that enhance the user experience on an external monitor (secondary screen). The APK (com.zebra.workstationconnect.release.apk) file can be installed on device following a standard process. For example: adb install com.zebra.workstationconnect.release.apk or save the file on the device and run it directly.
2. Grant the Zebra Workstation Connect APK permission on the mobile device. Grant permission to deploy the APK over the other applications. To enable this, tap and hold the Workstation Connect application icon on the mobiledevice screen.

App Info > Advanced > Display over other apps > Allowed

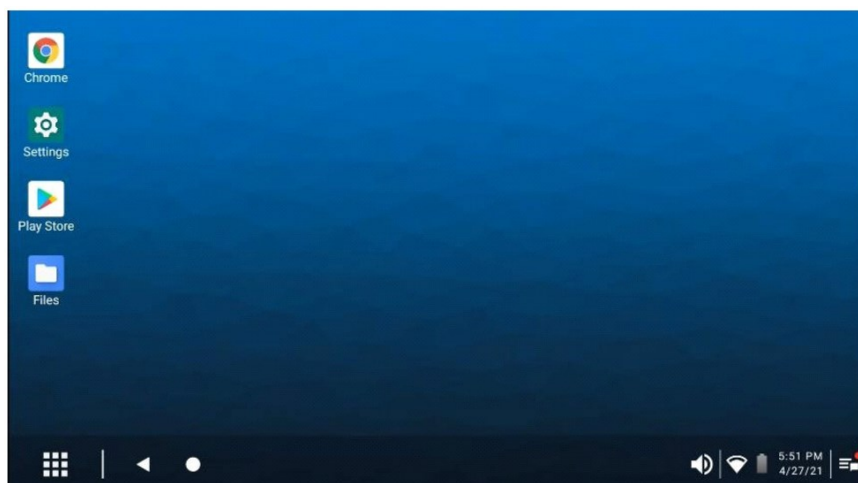


3. Enable Desktop Mode on the mobile device. Enable the following system settings on the mobile computer:
 - a. Enable Developer Options: Settings > About Phone > Build number 5 times.
 - b. Enable Desktop Mode on the Menu: Settings > System > Advanced > Developer Options.



NOTE: If the application is use is not designed to be resizable, enable Force activities to be resizable. It is recommended to review the behavior of all applications when utilizing Zebra Workstation Connect and enabling this option.

4. Perform a device reboot prior to docking the device into the Workstation Cradle. Once the device is rebooted, docked into the Workstation Cradle, and connected to HDMI monitor, the mobile device displays the home screen and allows the user to launch and run applications. Simultaneously, the external monitor displays the home screen of Zebra Workstation Connect.



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 The icon for the Zebra Workstation Connect App, showing a blue vertical bar with the text "Workstation Connect" and "Installation Guide" below it.	<p>ZEBRA Workstation Connect App [pdf] Installation Guide CRD-EC5X-1SWS-01, CRD-TC5X-1SWS-01, CRD-ET5X-1SWS-01, Workstation Connect App, Workstation Connect, App</p>
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References

- [Generating a Package Signature for Use by MX | Developer Portal](#)
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- [File Manager - Zebra Technologies TechDocs](#)
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