# Workstation Connect



# **Installation Guide**

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# **About This Document**

# Introduction

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	Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports Included in kit:	EC50 and EC55 Mobile Computers
	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.	
CRD-TC5X-1SWS-01	Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports. Included in kit:	TC52, TC52x, TC57, TC57x, TC52ax, TC52x-HC and TC52ax-HC Mobile Computers
	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.	
CRD-ET5X-1SWS-01	Workstation Docking Cradle Kit with Standard Cup, HDMI, Ethernet, and multiple USB Ports.	ET56 Mobile Computers
	Included in kit:	
	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.	

# **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 <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

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.

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

Permission Name:	
ernission nume.	
System Alert Window	~
Application Package Name: 🕧	
com.zebra.workstationconnect.release	
Application Signature:	

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.** 



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"</pre>
value="android.permission.SYSTEM ALERT WINDOW" />
    <parm name="PermissionAccessPackageName"</pre>
value="com.zebra.workstationconnect.release" />
    <parm name="PermissionAccessSignature"
value="MIID6TCCAtGgAwIBAgIJAJqOWgV07V60MA0GCSqGSIb3DQEBB0UAMIGKMQswC0YDV00G
EwJVUzERMA8GA1UECAwITmV3IF1vcmsxEzARBgNVBAcMCkhvbHRzdmlsbGUxGTAXBgNVBAsMEE1
vYmlsZSBDb21wdXRpbmcxGzAZBgNVBAoMElplYnJhIFR1Y2hub2xvZ2llczEbMBkGA1UEAwwSQ2
9tbW9uIEFuZHJvaWQgS2V5MB4XDTE4MTEyOTIwNTU00VoXDTQ2MDQxNjIwNTU00VowgYoxCzAJB
gNVBAYTA1VTMREwDwYDVQQIDAhOZXcgWW9yazETMBEGA1UEBwwKSG9sdHN2aWxsZTEZMBcGA1UE
CwwQTW9iaWxlIENvbXB1dGluZzEbMBkGA1UECgwSWmVicmEgVGVjaG5vbG9naWVzMRswGQYDVQQ
DDBJDb21tb24gQW5kcm9pZCBLZXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCwA3
jRXXIKoF31U4gBU0XM7LAzAc9pyxHFbqRoy+uGXzIdPGKNQVqyeQKT1gLnQWz7Nz+AiFbB3axfj
pGZy8Z5gakp1i8avx+ZwwST++ufEs+jhKF9XJThOSc9MG5Cgk9+ByAZjBLwg0XX+IPqTO+xcxG8
B1NIDOd11k+99MQezGn8mfS/1MMC1ynZRC+18z9VkD+FZeFYSHU10oFBMhCjMKYApa08ZuPk/+1
QTfDTs+JPxjsBqy906vt+PnDnYIfobjaxeEbaDQvjRL1LKKq10svdcmnrKWkW72Dt5XkIcTYHfE
s6wfFrMiYhO3/gxhoqBuiHbNyIL9kKTwkMg2wfAgMBAAGjUDBOMB0GA1UdDgQWBBRXkmK7fyfhV
MBWOrUJvkSHm9IapDAfBgNVHSMEGDAWgBRXkmK7fyfhVMBWOrUJvkSHm9IapDAMBgNVHRMEBTAD
AOH/MA0GCSqGSIb3D0EBB0UAA4IBA0B0BZ1Duu0U59p7U9pkdoS79GxhE8ALnYPkxeVX5Zq0BbS
/BWG5t+M2EyfUc2pNKqAqopfnBdyXcxuw0JyQBIYKmDHG+YtxqxdqBcDrfmsxk1gyVLH4mZvhCT
pPeUM5LivzFGdaqm4Dm2M5XG1BSDvclrUzoebDhg2VFJfRzYHnhZsBNVlcxQ/m8UUKmG15sXgIH
QCi4o0zrdRcWAnMqtxd0vzdRL2h6MTh56ICi0VG8rASXBdZmN49FjwlYFfQyetwdrrmpYleTWky
OteGCy7r5zMCXcMTRawRp5R6kP/w6FNcw3fpUs8qH1T471hVNABQA94hkNW50Fv40xuSYOww"
/>
  </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 Zebra Workstation 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 path to> 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 mobile device screen.

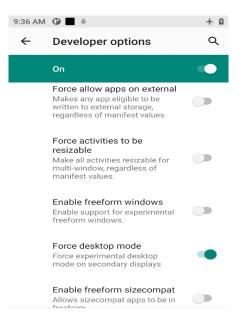
#### App Info > Advanced > Display over other apps > Allowed

÷	Display over other apps Q
	ſ <u>₹</u>
	WorkstationConnect 0.0.79
	Allow display over other apps
	Allow this app to display on top of other apps you're using. This app will be able to see where you tap or change what's displayed on the screen.

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.



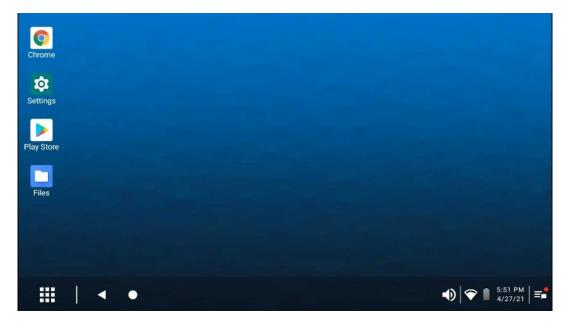
#### Installation



**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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