

WiseMo remote control of Zebra scanner devices

1.0 Overview

A Zebra device running Android 5.0 or newer can be remotely viewed but it requires additional configuration for full remote control where also keyboard and touch events can be emulated.

The configuration can be done via Zebra StageNow on the device, via EMM/MDM solutions or often in combination of the two. This document primarily describes how to configure the device via StageNow and gives a general description on how to configure it with an EMM/MDM tool.

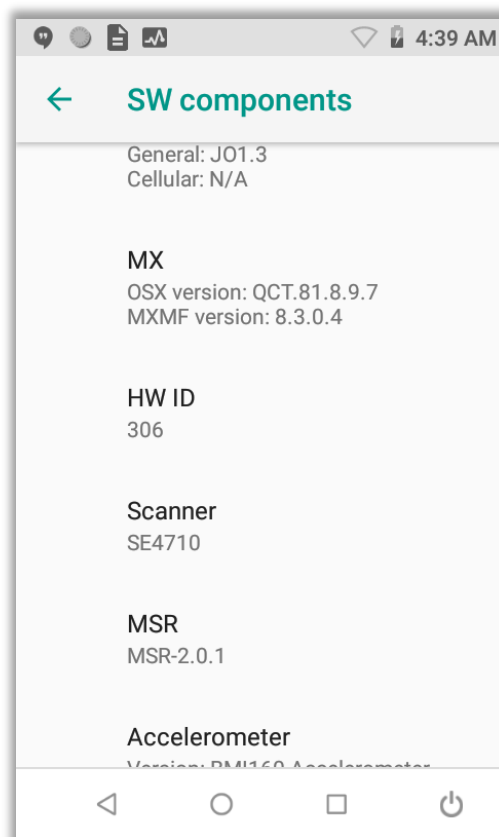
1.1 Prerequisites

Emulation of keyboard and touch events are only supported on platforms that support (Mobility Extensions) MX 8.3 or greater and StageNow versions 3.2 or greater. In addition, a WiseMo Host for Android version 18 or later should be used.

1.1.1 MX and StageNow versions on the Android device

On the device select Settings->System->About Phone->Software Components. Under this you should see "MX" it should be at least version 8.3

Screen Shoot from PS20J with BSP 1.13.20



To see the StageNow client version touch the StageNow icon and select “View Client Info”

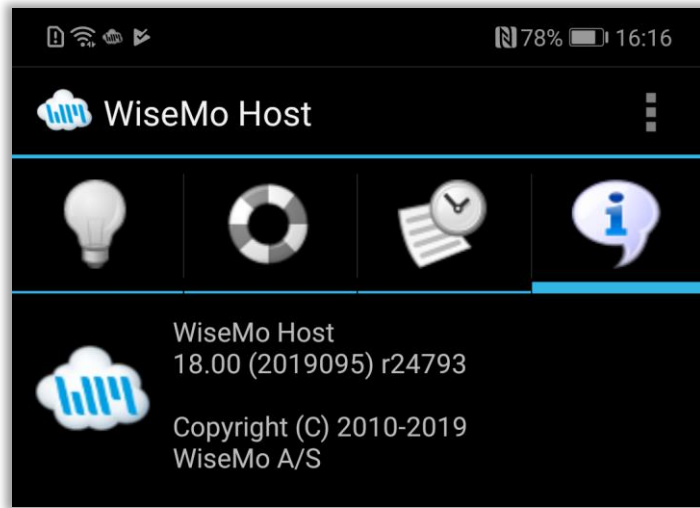
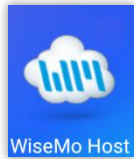


This StageNow version is 3.2.1.0 (minimal version should be 3.2) and MX version is 8.3.0.4 (minimal version should be 8.3).

Note the MX version is also shown on this screen.

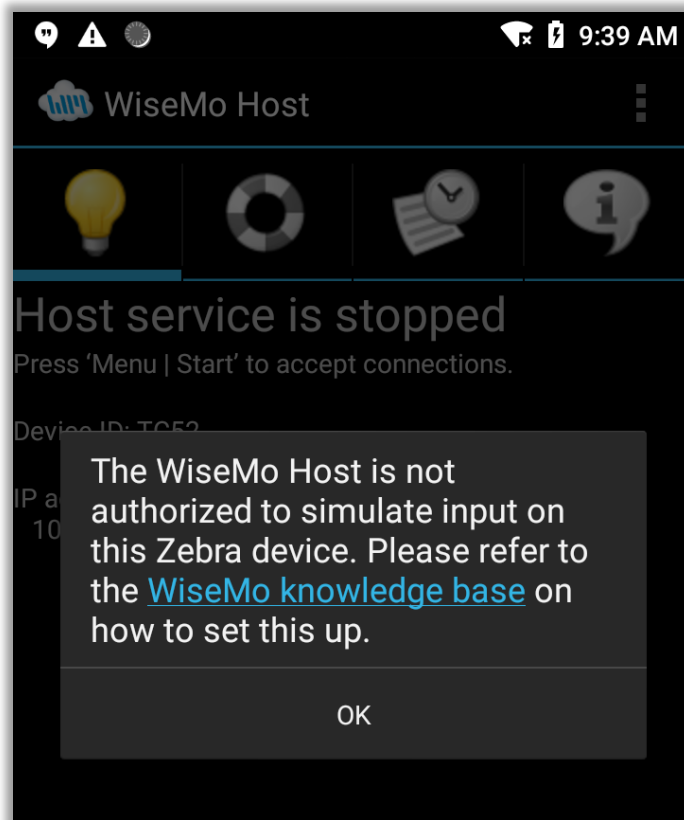
1.1.2 WiseMo Host

Full remote control of Zebra devices requires WiseMo Host for Android version 18.0 or greater. Open the WiseMo Host by clicking the WiseMo Host icon and select the Info tab:



This Host is version 18.00 build 2019095. Minimal version is 18.00.

If you run the Host without being configured it will show the following message:



2.0 Steps required to allow full remote control

The Zebra device must be provisioned to allow the WiseMo Host to simulate input. This can be done via StageNow on the Zebra device or for mass deployment on Managed devices, via EMM/MDM tools.

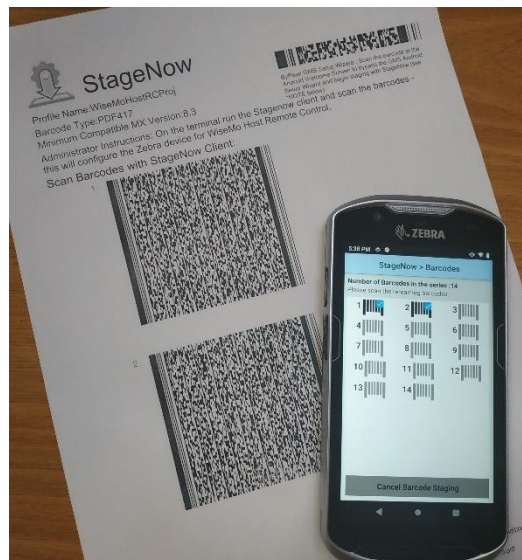
In addition, from Android version 10 the Host app will trigger Android to ask for permission to capture screen every time the Host app is started. Provisioning also allows means to avoid this dialog.

If the Android device is Managed (enrolled in an EMM/MDM tool), you might want to read this WiseMo article, [Intune Deployment and Configuration of the WiseMo Android Host](#), with a general description of deployment of the WiseMo Host with Microsoft Intune. There's also a general information about EMM solutions, Android Managed Configuration and a dedicated paragraph for deployment to Zebra devices.

You might also find important information in this article from Zebra, [The Android Setup Wizard and How to Bypass It](#), or in the general guidelines from Google, [Provision devices](#).

2.1.1 Provisioning via StageNow (Barcode staging)

WiseMo delivers the necessary configuration as a PDF file containing a set of barcodes, see picture below.



The PDF document can be downloaded [here](#) for Android 10 and newer (MX version ≥ 10). If the Android version is older and/or StageNow shows an error, please use the pre-Android 10 version (MX version < 10) that can be downloaded [here](#).

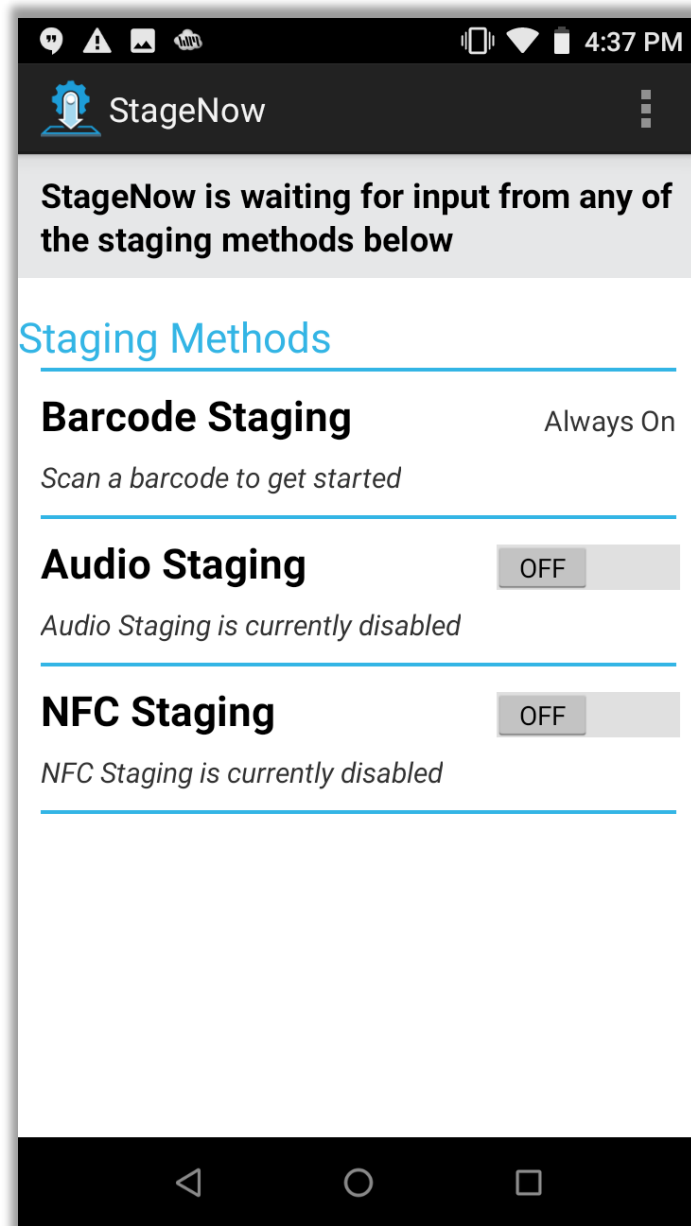
Android Google Mobile Services (GMS) devices present a setup wizard to the user when the device is first started or after a factory or enterprise reset. If you see the setup wizard, scan the barcode in the upper right corner of the PDF document:



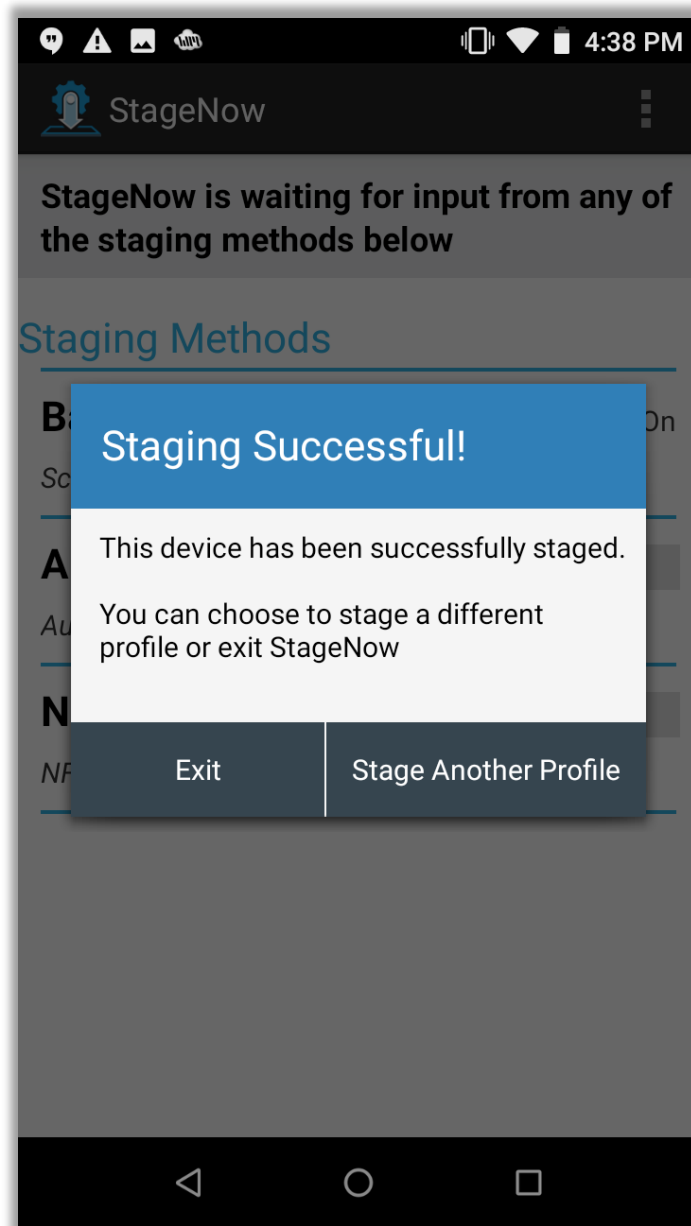
The image shows a PDF document for StageNow. It features a blue gear icon with a white arrow pointing down. The title "StageNow" is in a large, bold, black font. Below the title, the following text is displayed: "Profile Name:WiseMoHostRC", "Barcode Type:PDF417", and "Minimum Compatible MX Version:8.3". A red box highlights a barcode in the upper right corner, with the text "ByPass GMS Setup Wizard : Scan the barcode at the Android Welcome Screen to bypass the GMS Android Setup Wizard and begin staging with StageNow (see *NOTE below)" underneath it. Below this, the text reads "Administrator Instructions: On the terminal run the Stagenow client and scan the barcodes – this will configure the Zebra device for WiseMo Host Remote Control." and "Scan Barcodes with StageNow Client:". A red number "1" is positioned to the left of a large barcode at the bottom of the document.

This will bypass the setup wizard and launch StageNow.

Otherwise, just open the StageNow client by tapping the StageNow icon.



StageNow is now ready to receive the configuration by scanning the bar codes. Point the device to the barcode with number **1** (in red) and simply press the scan button on the device. Continue to scan the remaining barcodes one by one in the order shown. When completed, the following screen will be shown and the device is ready for remote control.

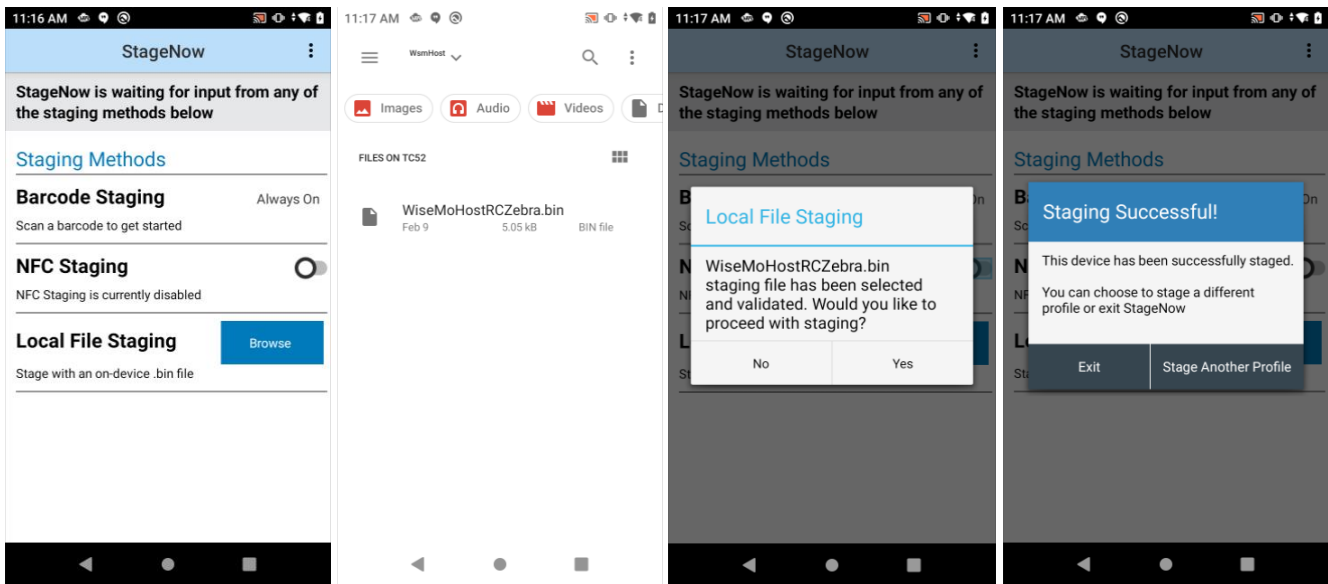


2.1.2 Provisioning via StageNow (Local File Staging)

As an alternative to scanning barcodes, StageNow can use a .bin-file that can be downloaded [here](#) for Android 10 and newer (MX version ≥ 10). If the Android version is older and/or StageNow shows an error, please use the pre-Android 10 version (MX version < 10) that can be downloaded [here](#).

Save the file on the devices' local file system.

Run the StageNow client and press the "Browse" button in the Local File Staging section. Locate and select the saved .bin-file and click **Yes** in the following screen, see pictures below.



2.2 Provisioning via MDM tools

WiseMo has prepared provisioning files for MDM tools that you will need to configure the Host automatically and avoid the manual configuration via StageNow.

Depending on MDM tool Android version you will need either the JSON or XML file below.

	Android < 10 (MX version<10)	Android >= 10 (MX version>=10)
JSON format	WiseMoHostZebraRC_pre10.json	WiseMoHostZebraRC.json
XML format	WiseMoHostZebraRC_pre10.xml	WiseMoHostZebraRC.xml

The configuration files should be defined for the “**Zebra OEMConfig powered by MX**” app.

2.2.1 Provisioning with Microsoft Intune

Please refer to the [Intune Deployment and Configuration of the WiseMo Android Host](#) for using Microsoft Intune. The document handles deployment to Zebra devices in details.