# InStock

# **InStock Installation Guide**

V2.3.0.0

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## 3. Installation

#### 3.1 Scanner Device (Android)

The app is pre-installed custom PBS Launcher app and InStock app on the device. If you are unable to locate these Apps on the device, please contact PBS Support Line via email or phone.

## 3.2 Client Host Console (Admin Console)

#### 3.2.1 Local PC Installation

The download link for the local PC client is available on the Purpose Built Software website, or via email request to <a href="mailto:support@purposebuilt.com.au">support@purposebuilt.com.au</a>.

The link will download the application installer file.

To install the applications right click the chosen installer application and select run as administrator\*. Permission make changes to device will be requested.

\*Administrator privileges will only be required for install installation.

Run the installer application and follow the steps on the screen. For your assistance the steps are detailed below.

Accept license terms and conditions and click on Install button.



User Account Control	×
Do you want to allow th changes to your device	his app to make ?
PBS PBS Certificate	
Verified publisher: Purposebuilt File origin: Hard drive on this cor	nputer
Show more details	
Yes	No

Click on Yes button to install the certificate.

Installation process will begin.

InStock Server Setup (v1.0.38.0)	_		×
PBS InStock Server (v1.0.38.0)			
Setup Progress			
Processing: InStockServerServiceSetup			
		Can	cel

You will see Setup Successful message when installation complete.



Click CLOSE to exit the installation window.

Upon completion of the installation a shortcut will appear on the desktop.



Double clicking on the shortcut will bring up the InStock Admin Server Panel.

#### 3.2.2 Run installer on existing installation

If the application was already installed on the computer and you are running the same installer, it will show Repair and Uninstall options.



Note: Sometimes, **Repair** is required to fix the installation issues.

#### 3.2.3 Uninstall existing installation

To uninstall InStock services and Admin console from a computer run the same installer or follow the steps below to uninstall InStock server application from Windows Add Remove Programs:

1. On the computer, press windows key and type **Add remove** and select Add or remove programs.



2. In the search field, type InStock. The current InStock installed application will be shown. Click on Uninstall button.

Settings	
命 Home	Apps & features
Find a setting	Choose where to get apps
Apps IΞ Apps & features	Installing apps only from Microsoft Store helps protect your device.
∃ → Default apps	Apps & features
印 <u></u> Offline maps	App execution aliases
Apps for websites	Search, sort, and filter by drive. If you would like to uninstall or move an app, select it from the list.
□ Video playback	instock $ ho$
	Sort by: Name $\checkmark$ Filter by: All drives $\checkmark$ 1 app found
	InStock Server         508 MB           23/05/2024         1.0.38.0
	Modify Uninstall

3. InStock setup screen will appear. Select Uninstall from the screen.



Uninstallation will begin.



		Cancel
InSto	Files In Use	××
PBS	The following applications are using files that need to be updated:	
Setu	PBS InStockFWService	
Processir	Close the <u>applications</u> and attempt to restart them. <u>D</u> o not close applications. A reboot will be required.	
	OK Cancel	
		Cancel

. . .

A Setup Successful message will appear after uninstallation complete.



Uninstallation done.

**Note:** User folder and files will not be removed automatically, you can remove them by remove the **C:\InStock** folder with the files and sub folder. Removing this folder will also remove logs, settings and device uploaded files such as logs, databases and screenshots.

Depending on your system, you may be asked to restart the computer.

#### 3.3 Admin Console Interface

After installation complete, run the InStock Admin console application. The program will appear as below.

🞫 InStockAdr	nin															-	D	$\times$
PBS	InStock Ad	lmi	n							Ins	Stock PBSSyd26	6						v1.0.38.0
	evices								đ	Refe	erence Files Server Logs S	Sync History Device Files Sy	nc Batch History					
	GUID	Activo	Auth	Status						F	Reference Files	✓ Reload All Reference E	Data					Ĵ
Device-22	8af4f48046b79f82		© C	l	0		97	0	٥		File Name	Last Update	File Size (KB)	Total Records	Records Loaded	Status		Reload
Device-24	402d93c1ab678a4a		©	all			91 91	0		Þ	cst_cntr.txt	22/05/2024 12:45 PM	15	533	533	Ready		44
Device-1	fc2b8e9badb8bba9	<u>~</u>	S	.72	0	=	÷.	U	W		imp_id.txt	22/05/2024 12:45 PM	8	222	222	Ready		4
											imp_item.txt	22/05/2024 1:07 PM	1,199	18,311	18,311	Ready		44
											imp_loc.txt	22/05/2024 12:45 PM	4	155	155	Ready		49
											prod_uom.txt	22/05/2024 12:45 PM	804	22,205	22,205	Ready		49
											product.txt	23/05/2024 10:45 AM	893	10,253	10,253	Ready		++
											str_loc.txt	22/05/2024 12:45 PM	10	241	241	Ready		+7
										- 5	Services				C	Restart /	All Ser	vices
										Ins	Stock Server Service						Θ	44
										Ins	Stock Data Service					<ul> <li>✓</li> </ul>	۲	44
										Ins	Stock Message Service					<ul> <li>✓</li> </ul>	۲	49
L									_	In	Stock File Transfer Service					<ul> <li>✓</li> </ul>	۲	4
						1				A	Nessage Log							
Restart	Message Service C	onnected	1			Se	ttings	Licer	nce	200 200 200 200	24-06-19 15:20:38 From [Devid 24-06-19 15:20:38 From [Devid 24-06-19 15:20:38 From [Devid 24-06-19 15:20:39 From [Admid 24-06-19 15:20:39 From [Admid	ce-22] To [Admin] Message [Or ce-24] To [Admin] Message [Or ce-1] To [Admin] Message [Offli n] To [Admin] Message [Online]	nine] nine] ne]					
	ed Copy							St	andard	20. 20. 20. 20.	24-06-19 15:20:40 From [Admi 24-06-19 15:20:40 From [Devis 24-06-19 15:20:40 From [Devis 24-06-19 15:20:40 From [Devis 24-06-19 15:20:40 From [Devis	in] To [Admin] Message [Online ce-22] To [Admin] Message [Or ce-24] To [Admin] Message [Or ce-11 To [Admin] Message [Offli	line] line] nel					

#### 3.3.1 Backend Services

In the Services section ensure all checkmarks and power icons are GREEN. If power button is RED this indicates the service is off. Follow the below to turn service to GREEN.

- Run the admin console as an administrator and click the red power button to start the service. You can also restart all services by clicking the **Restart All Services** Button.
  - **Note**: to restart service from the Admin console, you will need Administrator privileges.
  - o OR
  - Restart the computer.

If the services DO NOT start please repair the installer as referred to in section above "Installation 3.2.3". Please refer to the InStock User guide for further details.

#### 3.3.2 Buttons Panel



- 1. To restart Admin Console application.
- 2. This button shows whether the Admin Console application is connected to the message service. If disconnected, then you can click the field to reconnect it.
- 3. Settings button will pop the settings screen.
- 4. Licence button will pop the licence and registration screen.

Note: If you install a new version on a previously installed admin console application and the Message Service button is red after running the application, then re-run the setup and chose Repair option.

## 4. Settings

#### 4.1 Settings Tab

After installation, settings need to be completed.

Select settings from the console's main screen. The following window will appear.

pload Location	\\rogue\PBS_FileStore\Pde\Receiv Note: Network shared path will be co	ve 2 onverted to UNC format.		Save Settings 1
Use Admin Cons	Note: Network shared path will be co	onverted to UNC format.		
Use Admin Cons				
	ole for handling Reference and Trans	saction Data 🥊 🥊		
Note: Admin console	application must always be running i	if you use this option.	Exception	「「「「「」」「「」」
Network Path Acces	s Admin Credentials 🛛 🧕			
Domain Name PE	3S		<b>DERAK</b>	
User ad	minuser	Test Credentials		1 <i>81</i> 4 - 198
Paceword ***		5	1 <u>37736</u>	
			<u> </u>	
		10 17		
	to access UPLOAD LOCATION			111 N X X -
IP Address	192 160 1 54	0		
	132.160.1.34 🗸	8	<b></b>	
Message Service	3003			10
C C ·	3001		Generate Network St	ettings QB Code
Server Service			Juenerate Network 3	
Server Service Data Service	3002			
o o .	3001		Generate Network S	ettings QR Code

- 1. Download Location
- 2. Upload Location
- 3. Data handling mode
- 4. Network Credentials for shared locations
- 5. Test Credentials
- 6. Setting to use Network Credentials to access Download Location
- 7. Setting to use Network Credentials to access Upload Location
- 8. Server IP and Port settings used by backend services
- 9. Generate Network Settings QR Code
- 10. Zoom or export QR Code
- 11. Save settings

Download Location	Download Location is the location of the reference files.
	Reference files reads automatically or on demand by the
	services and send to devices on request.
	This location should be pointed to the folder location
	where the iPharmacy reference files are stored.

Upload Location	Upload Location is the location where transaction files are uploaded from the devices.
Data handling mode	Data handling mode switched between backend and
	frontend handling of the reference and transactions data.
	Admin Console (or frontend) option should only be used if
	Download or Upload location is a network shared location
	and backend service is unable to access location with full
	privileges.
Network Credentials for shared	Network Credentials can be used to access network shared
locations	location.
	Only require when Download or Upload location is a
	network shared location and backend service is unable to
	access location with full privileges.
Setting to use Network	Check box to use network credentials for accessing
Credentials to access Download	Download Location. Only required if permissions NOT
Location	granted already.
Setting to use Network	Check box to use network credentials for accessing Upload
Credentials to access Upload	Location.
Location	
Server IP and Port	Server IP and Port settings used by backend services and
	devices
Generate Network settings QR	Network settings QR code can be scanned by devices to
code	add, update or switch server settings. This QR Code can
	also be scanned from the 'Send Transaction Data' screen to
	upload transactions.
Zoom or export QR Code	Zoom or export QR Code or save QR code to a file
1	

**Important:** If you want to point to shared folder(s) here then the folder path must be in UNC format (eg: <u>\AnotherPC\SharedFolder\Send</u>) (path will be automatically changed to UNC format it was a network shared drive), and the folder must have full permissions to the "Computer" where the InStock services are running.

## 4.1.1 Configure IP Address

You need to select the correct IP address from the dropdown list if the PC has more than one IP.

Save the settings it will prompt to restart the services. If you are running Admin console as an Administrator then the services will restart, alternately you can restart the computer.

## 4.1.2 Generate Network QR Code

From the settings tab, you can also generate setting QR code. This QR code can be scanned from the device to configure server settings. Refer to Configure server settings

To save QR Code in a file and print, click on the sutton and click on **Save to File** button.

## 4.2 Device App Settings Tab

From the 'Device App Settings' tab, you can customise the device app behaviour. The device will sync the settings automatically.



This screen allows setting behaviour of the InStock App running on MC3300x devices.

Checking box for "Server QR Code scanning is required for data upload" will prompt user to scan network QR code for each Data Sync Upload to the PC. Best for Kiosk and hot desk environments.

You can also generate QR code for Wi-Fi settings here. Refer to section 7.2.1 of this manual to add Wi-Fi setting to your device.

Note: all the sensitive information, including wi-fi settings are saved as encrypted data.

## 4.3 App Store Tab

App Store is used to load the latest InStock app. InStock app running on the devices gets updated app from the app store.

App version		PBS Launcher	~	Check Updates on Cloud S	Gerver
Load Date		App Name	PBSLauncher		
		Platform	ANDROID	Version 1.0.8.0	
		File Name	com.purposebuilt.launch	er-Signed.apk	
		File Size	26MB		
		Date	27/02/2024 10:51 AM		
		Hash Code	73d00b6747b289588d3 7b9978f2e1c31	3862ece5b6334feb2b74444a	a6921c03
					Download
		Download Location	on		
App Name	File Name	Version	Archive Date	File Size (MB)	Hash Cod
	com purposebuilt instock	apk 2.1.45.0	202406031022	01 78	54b205f93
PBSInStock					

Updates for admin console and device apps can be checked and downloaded from the PBS App Store on the cloud (internet connection required).

## 4.4 Update Centre Tab

Zebra releases patches and updates for devices and it is crucial to keep update device OS and firmware.

Manufacturer     Zebra       Android Version     11       Patch Version     U00       Build Name     11-40       Load Date     19/0	a Technologies	Device Model Compatible Device	MC3300x Versions 10 11 12 13	~	
Android Version 11 Patch Version U00 Build Name 11-44 Load Date 19/0	<ul> <li>✓</li> <li>6-25.00-RG-U00-STD-H</li> <li>6/2024 1:09:38 PM</li> </ul>	Compatible Device	e Versions   10  11  12  13		
Patch Version U00 Build Name 11-40 Load Date 19/0	6-25.00-RG-U00-STD-H 6/2024 1:09:38 PM	EL-04	11 12 13		
Build Name 11-40 Load Date 19/0	6-25.00-RG-U00-STD-H 6/2024 1:09:38 PM	EL-04	13		
Load Date 19/0	6/2024 1:09:38 PM				
22.14					
ash Code 2355	9b14d4de9882	3000360 10000ac /aca303/66	Update		
File Name	Model	Android Version	n Version	Version Name	Archive D
HE_FULL_UPDAT	E_11-46 MC3300x	10,11	137	U00	19/06/202

Update Centre is a solution to keep update offline Zebra devices.

## 4.5 Task Scheduler Tab

Task schedular allows administrators to schedule tasks to be run on a specific time on the devices. For example a firmware update task can be scheduled to update device firmware at 12:30am. Settings

ocungs													<u>^</u>
Settings	Device App S	Settings	App Store	Upda	te Centre	Task Scheduler	Reference F	File Setting	s				
Task	ld	7b7e33	3e2-38a8-44	75-80e	0-dfe65bdb	3772				[	Add New		
Devic	се Туре	MC330	)0x	$\sim$					Status	Not Activ	e v		
Andro	oid Version	10		$\sim$									
Task	Туре	Install	Firmware	$\sim$									
Sche	duled Time	30/09/	2023		12:30:00 /	AM 🚖							
								Remarks	s				
			o not run bet	ween	6:00:0	AM 😫							]
				and									
					10:30:0	) PM 😫							
											Save		
	Task Id				Task Typ	e	Model		Android Version	So Ti	cheduled ime	Status	
۱.	7b7e33e2-38a	8-4475-8	30e0-dfe65bo	db3	Install Firm	ware	MC3300x		10	30	/09/2023 12:3		

#### 4.6 **Reference File Settings Tab**

If any iPharmacy reference file is not used then this setting can be used to mark reference file as 'Optional'. By default, all reference files are required to be loaded into the device.

~

S	ettings						
S	ettings	Device App Settings	App Store	Update Centre	Task Scheduler	Reference File Settings	
	Referer File N	nce Files Name prod <u>.</u> V O	_uom.txt ptional		Save		
		File Name				Optional	
		cst_cntr.txt					
		imp_id.txt					
		imp_item.txt					
		imp_loc.txt					
	•	prod_uom.txt					
		product.txt					
		str_loc.txt					

# 5. Register Your Application

## 5.1 Add Licence

Select 4. Licence from the buttons menu

:			>
Restart	Message Service Connected	Settings	Licence

To add user specific license key, contact Purpose Built Software for details on the registered company name, if not received with your installation file.

Select "Offline Registration" – enter company name into the field and "Download Licence Request". Send this file to support@purposebuilt.com.au.

Licence/Registration			×
To obtain a Registration Key Please contact Purposebuilt If you already have a key or I Enter Registered Name and I and click the Activate button Note: You will need new key	or offline licence file, Software Pty. Ltd. licence file then Registration Key as it is provided or licence file if you have changed the Admin Server.		
Licence details			
Licence Type	Standard	Licence Exipry	24/12/2031 12:00:00
Customer Id	E083BBC3E4C91A9CE055000000000001	Devices Allowed	60
Server Id	BFEBFBFF000A0655	Status	ок
Registered Name	PBSSYD23		
Authentication Key	F9BF17BF-EBA4-0A7D-E055-3E7E1FB28E97		
Company Name			
Registered Name			
Licence Type	Standard		
Registration Key			
Cancel	Activate/Verify	Offline Registration	1

Offline Registration			×
Company Name	Westmead iPharmacy 123 Download Licence Request	Import Licence file	
			Cancel

\*If you do not have or are unable to locate your licence file, please contact Purpose Built Software Support Team.

\*Keep the license file safe as will need to be reloaded upon a reinstall of InStock Server.

# 6. Reference Data

When the **Download Folder** setting is configured correctly and there are reference files in the folder, the service will start loading the reference files. You can see loading progress in the Admin console.

InStockAdmi	in														-		×
PBS	InStock Ac	lmin						V	Vestmead iPharm	nac	y 123						v1.0.22.0
📕 Dev	vices						Ĵ		Reference Files Server Logs S	Sync H	istory Device Files Sync	Batch History					
ID	GUID	Active Auth	Status					1	Reference Files	<b>*</b> 91	Reload All Files						ខ
Device-1 Device-10	8af4f48046b79f82 b68d5ba7cfadb44c			0		(i) (i)	ش		File Name		Last Update	File Size (KB)	Total Records	Rocords Loaded	Status		Reload
Device-3	3781fae0e4a14ac0		1	0 🔒		()	ŵ		cst_cntr.bxt		6/10/2023 10:34 AM	15	528	520	Ready		44
									imp_id.txt		6/10/2023 10:34 AM	8	219	219	Ready		+ <del>)</del>
								Ш	imp_item.txt		3/10/2023 10:34 AM	1,064	17,665	17,665	Ready Ready		4
									prod uom.txt	-	6/10/2023 10:34 AM	693	20.691	20.69	Ready		4
									product txt		6/10/2023 10:34 AM	832	10,170	10,170	Ready		4
									str_loc.txt		6/10/2023 10:35 AM	10	241	24	Ready		44
								L									
									Services								C
									InStock Server Service						- I V	0	49
									InStock Data Service						✓	۲	44
									InStock Message Service						<ul> <li>✓</li> </ul>	۷	44
									InStock File Transfer Service						✓	0	44
<							>		Message Log								
Restart	Message Service C	Connected			Settings	Lice	ince		2023-10-10 10:01:39 From [Devi 2023-10-10 10:03:33 From [Devi 2023-10-10 10:05:26 From [Devi 2023-10-10 10:07:25 From [Devi 2023-10-10 10:07:29 From [Devi 2023-10-10 10:11:38 From [Devi 2023-10-10 10:13:28 From [Devi	ice-3] 1 ice-3] 1 ice-3] 1 ice-3] 1 ice-3] 1 ice-3] 1	Fo (Admin) Message (Battery Fo (Admin) Message (Battery	info sent] info sent] info sent] info sent] info sent] info sent]					^
Registered	Сору					S	itandard	1	2023-10-10 10:16:27 From [Devi 2023-10-10 10:19:07 From [Devi	ice-3]	To [Admin] Message [Battery	info sent]					
Licence type Stand for support, please	dard. e contact Purpose Built Software Pty. Ltd.								2023-10-10 10:13:07 Floir [Devi 2023-10-10 10:22:03 From [Devi 2023-10-10 10:25:19 From [Devi	ice-3] 1 ice-3] 1	fo [Admin] Message [Battery fo [Admin] Message [Battery	info sent] info sent1					~

## 6.1 Reload All Reference Files

Reload all files button will initiate re-loading all reference files.

Reference	Files Server Logs	Sync History Device Files	Sync Batch History				
Refe	erence Files	✤ Reload All Files					Ĵ
	File Name	Last Update	File Size (KB)	Total Records	Rocords Loaded	Status	Reload
•	cst_cntr.txt	6/10/2023 10:34 AM	15	528	528	Ready	-fg
	imp_id.txt	6/10/2023 10:34 AM	8	219	219	Ready	44
	imp_item.txt	6/10/2023 10:34 AM	1,064	17,665	17,665	Ready	44
	imp_loc.txt	3/10/2023 9:08 AM	4	155	155	Ready	44

## 6.2 Reload a Single File

To reload a single file, use the Reload icon for each row.

imp_ia.txt	6/ 10/2023 10:34 AM	ŏ	219	219	кеаду	•7
imp_item.txt	6/10/2023 10:34 AM	1,064	17,665	17,665	Ready	4
	0.40.0000.0.00.414	4	400	466	n 1	1.

# 7. Setting up your MC33X Device

Your MC33X has pre-installed two apps.

- 1. PBS Launcher App
- 2. InStock App

#### 7.1 PBS Launcher App

PBS Launcher app is designed to provide administrative control access to apps and settings on the device. Launcher app easily limits usage to apps and prevent changes to device settings and lockdown the file system.

If PBS launcher app is not running then find the icon on the device screen and run it.

#### 7.1.1 Setting up Apps

To add apps on the launcher home screen,

Login as Admin user.

Home		
PBS	PBS Launcher	Enter Admin password
InStock	-Ð Admin Login	password
NU VENE VENE	About	LOGIN
		CLOSE

Select Apps Settings option from the fly menu and select the app(s) you want to add on the home screen and save. You can also mark apps for **Admin Only**, those apps will be available only after logged in as admin (Admin mark will be shown top right on the home screen when logged in and disappeared when logged off).

	Admin	÷			8			
PBS Launcher	Admin		Apps Installed	Admin Only	Select	Date	Home	Admin
		-	Contacts			PBS InStock	Settings	
🕒 Admin Logoff		(0)	VoD					
Apps Setting		PBS InStock	InStock		~			
O Set Default Launcher		Μ	Gmail					
କ୍ତ Add Wifi		<b>tột</b>	Settings	<b>~</b>	~			
About		Andraid	ProfileWifiSample1					
		4	Drive					

#### 7.1.2 Setting Default Launcher App

To prevent users to access the default android screen, PBS Launcher must be selected as the default launcher app.

To change default launcher app, select the 'Set Default Launcher' option from the fly menu, and select PBS Launcher. To access the default android home screen, you can change it anytime but make sure PBS Launcher is the default when you handover the device to the user.



**Note:** After changing PBS Launcher as the default, the device may need to be restarted.

#### 7.2 InStock App

Launch the InStock app on your MC33X by pressing P1 key or tap the InStock app icon on the home screen.

#### 7.2.1 Adding Wi-fi Connection

There are three ways you can add wi-fi connection.

- 1. Using Android Settings app
- 2. Using PBS Launcher option
- 3. Scanning Wi-Fi settings QR code from the InStock app.

For option 1 and 2, you will need to access the Android's Settings app or select Add Wi-fi option from the fly menu. You can achieve this after login as Admin.

# To adding by scanning QR code, in InStock app go to the fly menu and select Utilities->Scan Wi-fi QR code.

On the Admin console application, go to Settings->Device App Settings. Fill the Wi-Fi settings parameters and save, see <u>here</u> for details. After saving the details, you can generate QR code. Now on the device launch the InStock app press and scan it.

After scanning, press the Apply button and you will get to the Wi-Fi PBS Launcher with the pre-filled details. Tap on the Apply and Save button, this will prompt for Admin password if you are not already logged in. Tap Apply and Save button again after login to add the connection. If parameters are correct, the device will be connected to the Wi-Fi. Logoff as admin and press P1 from the device keyboard to get back to the InStock app.

← WifiSettingsPage	← Wi-Fi Setting
Scan Wi-Fi QR Code from the Admin Conole	SSID PBS1 Password WPA Mode WPA Mode APPLY AND SAVE BACK

#### 7.2.2 Configure Server Settings

If there is no server setting on the app then the app will request server settings. You can add it manually by pressing F9 here (or tap on the round fly button) or scan a Settings QR code from the Admin console application.

Adding manually. IP Address detail can be found in the InStock Admin console settings tab.





← Server Settings	
192.168.1.52 3001	~
192.168.1.52 3001	



**Note**: At least one setting must be active or default to connect the backend server.

Go to the home screen and **Not Authorized** message will be shown. Go the Data Sync menu and sync data from the option 1.



Mark server profile as Active and save changes. Navigate to home screen using the back icon.

#### 7.2.3 Settings Device Name

By default, each device will get a name **Device-1**. It may change when the device is registered with the Admin console/Server and the name was already occupied by another device.

#### 7.2.4 Check Server Connectivity

You can check server ports connectivity on the device from Utilities>Network Tools, if needed.

← Network Tools			
IP Address	192.168.1.52	~	
Server Port	3001	$\checkmark$	
Message Port	80	$\checkmark$	
File Trasfer Port	5001	~	
Check Ports			

#### 7.2.5 Download Reference Data



From the main screen, select 8. Data Sync, 1. Receive Reference Data, 1. Start.

Setup is complete.

#### 7.3 Advance Wi-Fi Security

Zebra MC33xx devices support WPA3 Wi-Fi Security.

WPA3 is the next generation of Wi-Fi security, enabling robust authentication and increased cryptographic strength.

WPA3 offers the following features:

- Does not allow outdated protocols.
- Requires use of Protected Management Frames (PMF).
- Backwards compatible with WPA2.
- Supports the following authentication modes:
- WPA3-Personal Uses simultaneous authentication of equals (SAE)
- WPA3-Enterprise
- Enhanced Open Based on opportunistic wireless encryption (OWE). Note that this is a separate WiFi Alliance certification program and not WPA3.

#### 7.3.1 WPA3-Personal (SAE)

WPA3-Personal uses the Simultaneous Authentication of Equals (SAE) protocol, replacing WPA2-Personal with Pre-shared Key (PSK). SAE is a variant of the Dragonfly protocol which uses a password authenticated key exchange based on zero knowledge proof. In SAE, passwords are used to determine a secret element in the negotiated group, called a password element (PWE). SAE is resistant to offline dictionary attacks.

WPA3-Personal (SAE) has the following modes:

- WPA3-SAE Mode Devices can only use WPA3-SAE mode and PMF is always required. Information is secured using discrete logarithm cryptography.
- WPA3-SAE Transition Mode Provides backward compatibility for devices using WPA2. The access point (AP) uses WPA3-SAE Transition Mode to enable both WPA2-PSK and WPA3-SAE at the same time on a single basic service set (BSS).

WPA (version 1) cannot be used and is not supported on the same BSS as WPA3-SAE. WEP and TKIP cannot be used and are not supported by WPA2-PSK when used on the same BSS as WPA3-SAE.

#### 7.3.2 WPA3-Enterprise

WPA3-Enterprise is based on WPA2-Enterprise but requires Protected Management Frames (PMF) and does not allow outdated WEP and TKIP protocols. WPA3-Enterprise 192-bit Mode requires support for GCMP-256 and SHA384 ciphers.

WPA3-Enterprise has following modes:

• WPA3-Enterprise only Mode - PMF is always required. WPA3-Enterprise devices negotiate PMF when connecting to an AP using WPA3-Enterprise only mode.

- WPA3-Enterprise Transition Mode Provides backward combability for devices using WPA2-Enterprise. The access point uses WPA3-Enterprise Transition Mode to enable both WPA2-Enterprise and WPA3Enterprise at the same time on a single basic service set (BSS). WPA3-Enterprise devices negotiate PMF when connecting to an AP using WPA3-Enterprise transition mode.
- WPA3-Enterprise 192-bit Mode PMF is set to required when WPA3-Enterprise 192-bit Mode is used by a client station (STA). The only 802.1X Authentication allowed is EAP-TLS.

To Configure advance Wi-Fi network, exit the InStock App and login as an admin on the launcher app. Launch the Settings app, if you don't see Settings app icon on the home screen, then please check <u>here</u> how to add apps on the launcher screen.

Please refer to the <u>Zebra WPA3 guide</u> for the steps how to add WPA3 network on the MC33xx device.

## 8. Minimum System Requirements

#### 8.1 Admin Console

**Operating System** 

Windows 10 x64 October 2020 Update (version 20H2)

Windows 11 x64

**Dot Net Framework** 

- .NET Framework 4.8.1
- .Net core 3.1.1

**Open Ports** 

Service Name	Default Port
Server Service	3001
Data Service	3002
Message Service	3003
File Service	5001

#### 8.2 InStock App (Android)

Device/Scanner Supported:

Zebra MC33xx

**Operating System Supported:** 

Android 10+

Connectivity Supported:

Ethernet connection (via Ethernet cradle)

Hardware Wireless LAN capabilities:

Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v1/w/mc1; Wi-Fi™ certified; IPv4, IPv6, 2x2 MU-MIMO
Data Rates	5GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4GHz: 802.11b/g/n — up to 300 Mbps
Operating Channels	Channel 1-13 (2412-2472 MHz): 1,2,3,4,5,6,7,8,9,10,11,12,13 Channel 36-165 (5180-5825 MHz): 36,40,44,48,52 56,60,64,100,104,108,112,116,120,124,128,132,136,1 40,144,149,153,157,161,165 Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	Channel 1-13 (2412-2472 MHz): 1,2,3,4,5,6,7,8,9,10,11,12,13 Channel 36-165 (5180-5825 MHz): 36,40,44,48,52 56,60,64,100,104,108,112,116,120,124,128,132,136,1 40,144,149,153,157,161,165 Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.
Certifications	WFA (802.11n, WMM-PS, 801.11ac, PMF); WiFi Direct WMM-AC, Voice Enterprise
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC