Zebra Services Agent for 42Gears SureMDM



Installation Guide

2025/06/13

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Overview

42Gears SureMDM is an Enterprise Mobility Management (EMM) solution that enables companies to securely manage devices and endpoints with any form factor and operating system throughout their lifecycle, from deployment to retirement.

The Zebra Services Agent (ZSA) app is designed to be installed and configured through EMM tools.

Pre-requisites

Devices must be enrolled as **Fully Managed Device** using the 42Gears MDM's Nix Agent Android application.

To verify if devices are configured as **Fully Managed Device**, log into the **42Gears SureMDM Console**, select the **Device**, and then click **Check Value of Android Enterprise** from the top-right corner.

Deploying Zebra Services Agent

Install the Zebra Services Agent (ZSA) app on the devices.

Download the Zebra_Services_Agent_V3.0.0.5.apk file from zebra.com/zebra-services-agent.

- 1. Go to 42Gears SureMDM Console > App Store > Android.
- 2. Click Add New App and select Upload APK.
- 3. Click Browse File to upload the application.

A security warning message is displayed.

4. Select the checkbox and click OK to proceed.

After selecting the application, the Add App page displays.

5. Enter the Category and Description details, then click Add.

		Add New App	Search by app n
Add App			
★ App Title	Zebra Services Agent		
★ Category	Zebra Service Agent		
★ Package Id	com.zebra.zsa		
* Version	2.0.0.2		
★ Version Code	20002		
	ZSA v2.0.0.2 - Testing with SureMDM		
★ Description			•
	Back Add		

Installing Job Application for ZSA App with Managed Configuration Settings

Follow the steps below to add the ZSA app to the newly created job.

- **1.** Go to **Jobs** > **New Job** > **Android**.
- Select Install Application Job, enter a Job Name, and click Add. The Install Job page displays.

3. Select the Use Apps From AppStore checkbox.

Use Apps From App	0 🗸
Store	
Apps	Zebra Service Agent v3.0.0.0 (Package Na 🗸
Device Path	() /sdcard/
Install After Copy	0 🖌
Delete File After Installation	0
Launch App Upon Installation	0 🖌
Add Shortcut To Home Screen	0
Auto-Grant Permissions	0 🗸
Pre and Post Deployment Scripts	0
Note . The pre-script and	noct-corint functionality is sunnorted on SureMDM

- 4. Select the application from the **Apps** drop-down menu.
- 5. Select the Install After Copy and Launch App Upon Installation checkboxes.
- 6. Click **Next** to configure additional settings for ZSA and its modules.

The **Application Restrictions** page displays.

7. You can skip the configuration by selecting **Skip Configuration** or configure the required settings and click **Done**.

ment Dashboard I	Inbox Jobs F	Profiles App Store	File Store	OS Updates	Irity	RerX
Application Rest	rictions					
						- 8
Skip Configuration		0				D
Note : This Feature wil versions 27.31.00	ll be supported on Ar 8 and above.	ndroid Enterprise enrolle	ed devices runn	ing with SureM[OM Agent	201
 System Configura 	ition					
PBR Configuration	n					
Drop Detection						
① Data Collection						
DDT Configuration	n					
Application Config	guration					
						- 1
						- 1
						- 1
						- 1
		Done				

- 8. Go to System Configuration, enable the ZSA Configuration option and set the Configuration of the log level for ZSA with the following values:
 - 0: Info
 - 1: Debug
 - 2: Sensitive

kip Configuration	0	
ote : This Feature will be supported on And versions 27.31.08 and above.	oid Enterprise enrolled devices running with	n SureMDM Agent
) System Configuration		
Enable/Disable of ZSA		
Configuration of the log level for ZSA	1	~
File upload URL	https://z4z.t.eu.fs.viq.zebra.com/	systemconfig-service,
File upload retry count	3	
File upload retry interval in minutes	15	
Data upload URL	https://analytics.zebra.com/clier	nt2
Data unload interval in minutes	0 1440	

- 9. The system settings include three features for uploading log files:
 - File upload URL: Specifies the server path for uploading log files.
 - File upload retry count: Defines the number of retry attempts if the upload fails.
 - File upload retry interval in minutes: Sets the duration (in minutes) between each retry attempt after a failed upload.

- **10.** Settings for managing data uploads on non-Zebra devices:
 - Data Upload URL: Specifies the server path for uploading details of data collection. -
 - Data Upload Interval in minutes: Sets the frequency of uploads, defaulting to 24 hours (or 1440 minutes).

File upload retry count	3	
File upload retry interval in minutes	15	
Data upload URL	https://analytics.zebra.com/client2	
Data upload interval in minutes	0 1,440	
Enable/Disable of data collection		
Allow user to toggle data collection		
Account No	0	
PBR Configuration		
Drop Detection		
Data Collection		
DDT Configuration		

- **11.** Data collection settings for non-Zebra devices:
 - Enable/Disable of data collection: Data collection is turned off by default. When enabled, it gathers information such as battery status, device details, installed applications, and usage analytics, which can be uploaded to the server specified in the Data upload URL.
 - Allow user to toggle data collection: Enabled by default, allowing users to change the status of data collection via the app. Administrators can disable this option to restrict user access.
- 12. For the Account No, users must enter their MDM account number for non-Zebra devices.

13. Go to PBR Configuration, provide a Custom Message as required.

ant Dashboard Inbox Application Restrictions	Jobs Profiles	App Store	File Store	OS Updates	Jrity	Rer
Skip Configuration		0				
Note : This Feature will be suppo versions 27.31.08 and abov	orted on Android En ve.	terprise enrolle	d devices runn	ing with SureM[OM Agent	
System Configuration						
PBR Configuration						
Custom message to show in th	e notification	PUT_YOU	JR_CUSTOM_M	IESSAGE_HERE		
In case of bad battery alert the notification or dialog box	user through a	Notificati	on		×	 Image: A start of the start of
Block device usage		G 🔵				
Drop Detection						
Data Collection						
DDT Configuration						
		Done				

- **14.** Set the **In case of bad battery alert the user through a notification or dialog box** with the following values:
 - Notification (default)
 - Dialog
 - Dialogue with Assist
- **15.** The **Block device usage** option is disabled by default. If enabled by the administrator, it prevents device access when a bad battery is detected.

16. Go to Drop Detection, toggle the Enable/Disable of drop detection option as required.

pplication Restrictions		
Skip Configuration	0	
Note : This Feature will be supported on Android E versions 27.31.08 and above.	Interprise enrolled devices running with SureMDM Agent	
System Configuration		
PBR Configuration		
Drop Detection		
Enable/Disable of drop detection		
In case of device drop alert the user through a notification or dialog box	Notification	
Allow user to toggle drop collection		
Data Collection		
DDT Configuration		
	Done	

- **17.** Set the **In case of device drop alert the user through a notification or dialog box** with the following values:
 - Notification (default)
 - Dialog
 - Dialogue with Assist
- **18.** The **Allow user to toggle drop collection** is enabled by default. Users can control this feature, and admins can disable it to restrict access for users.
- **19.** Navigate to the **Data Collection** section. The settings for data collection on non-Zebra devices are as follows:
 - The **Battery** is enabled by default and collects data every 15 minutes. Only the admin can enable or disable this option to restrict user access; however, the collection interval cannot be modified.
 - The **Device Info** is enabled by default and collects data every 6 hours (360 minutes). Only the admin can enable or disable this option to restrict user access; however, the collection interval cannot be modified.
 - The Application List and Events is enabled by default. It collects information on installed applications and tracks events such as installations, uninstallations, upgrades, and downgrades.

Only the admin can enable or disable this option to restrict user access; however, the collection interval cannot be modified.

• The **Application Usage** option is enabled by default. It tracks the duration apps spend in the foreground. Only the admin can enable or disable this option to restrict user access; however, the collection interval cannot be modified.

lment Dashboard Inbo	Dox Jobs Profiles	App Store	File Store	OS Updates	Irity	RerX
Application Restric	tions					
 Data Collection 						
) Battery						D
Enable/Disable of batte	ery data collection					TOC
Device Info						
Enable/Disable of devi	ce info data collection					
 Application List and 	l Events					
Enable/Disable of devi	ce application data collectio	on 🔵				
 Application Usage 						
Enable/Disable of devic collection	ce application usage data					
DDT Configuration						
		Done				



NOTE: Data is uploaded based on the configured **Data Upload URL** and interval settings in the **System Configuration**.

20. In the DDT Configuration section, enable the Enable/Disable DDT option, keep the Clear DDT configurations disabled in the primary setup, and click Add in the Test Plan section.

Note : This Feature will be supported on And versions 27.31.08 and above.	droid Enterprise enrolled devices running with SureMDM Agent	
System Configuration		
PBR Configuration		
Drop Detection		
Data Collection		
DDT Configuration		
Enable/Disable DDT		
Clear DDT configurations		
🕂 Test Plan 🥡	+ Ad	ł
Test-log Retention	③ Select an Option 🗸	
Upload Preference	③ Select an Option	

21. Under the **Schedule** section, configure the test plan with the following values:

oplication Restrictions		
⊖ Test Plan ①		+ Add
⊖ Test Plan ③		
Schedule ()		
Test Day	1 Monday	~
Test Time	0 10:30	
⊖ Activity ③		
System to Test	(D) Bluetooth	~
 Delivery ① 		
Protocol	⑦ FTP	~
IP Address	172.16.201.60	
User Name	0 User	
Password	0 42Gears@123	
	Done	

- Test Day: Day of the Week (For example, Monday)
- Test Time: Time of the day for the test (HH: MM format)
- System to Test: Select the test to schedule (For example, Bluetooth)
- 22. Under the Delivery section, select the Protocol as FTP, enter a valid IP Address, User Name, and Password.

23. Select the Test-log Retention as required.

System Configuration			
PBR Configuration			
Drop Detection			
Data Collection			
 DDT Configuration 			
Enable/Disable DDT			
Clear DDT configurations	(
🕀 Test Plan 访			+ Add
Test-log Retention	Ū	Keep after upload	\sim
Upload Preference	Ū	Keep after upload Delete after upload	
	De	one	

24. Select the Upload Preference as required.

 System Configuration 			
PBR Configuration			
Drop Detection			
Data Collection			
DDT Configuration			
Enable/Disable DDT			
Clear DDT configurations			
🕂 Test Plan 访			+ Add
Test-log Retention	()	Keep after upload	~
Upload Preference	0	All test logs Only on failure	~
	C C C	All test logs	

25. Under the **Application Configuration** section, there are two options, **Wireless Insight** and **ZDS**, which are designated for Zebra devices only. More applications will be supported in the future.

nent Dashboard Inbox Jobs	Profiles App	Store File Store	OS Updates	ITILY Rep	X
Application Restrictions					
					18
Skip Configuration	© 🗌)			10
Note : This Feature will be supported o versions 27.31.08 and above.	on Android Enterpris	e enrolled devices run	ning with SureMD	M Agent	
System Configuration					
PBR Configuration					
Drop Detection					
Data Collection					
DDT Configuration					
Application Configuration					
Wireless Insight					
Configuration ID	1	Select an Option		~	
Custom Configuration					I
					1
	Dor	ne			

- Wireless Insight: Configured using Managed Configuration through MDM or VIQ.
 - **Configuration ID**: Pre-defined ID specific to the Wireless Insight configuration that includes several options.

Application Configuration		
 Wireless insight 		
Configuration ID	Select an Option	
	Start Wifi Analysis	
Custom Configuration	Start Cellular Analysis	
	Start both (Wifi and Cellular) Analysis	
_	Stop Wifi Analysis	
	Stop Cellular Analysis	
	Stop both (Wifi and Cellular) Analysis	

- **Custom Configuration**: Add the custom Wireless Insight configuration as a value.
- **ZDS**: Configured through VIQ with a custom ZDS configuration.

26. Click Done.



NOTE: The newly created job displays in the **Jobs List** section.

Granting Required Permission for the ZSA Application

To grant all the required permissions to the ZSA application:

- 1. Granting notification permission.
 - a) Navigate to Jobs > New Job > Android > Run Script.
 - b) Add a Job Name and enter the following script:

#suremdm

grantRuntimePermission(com.zebra.zsa,android.permission.POST_NOTIFICATION)

ureMDM	Home E	nrollment Dasht	ooard Inbox Jobs	Profiles App Store	File Store OS Updates	; ;	Buy Subscription 🛕 📫	2
Run Script								
* Job Name	Notification	Permission					Save	
Gener	ic		Knox		EA		Zebra	
Search	C	× Script			V	alidate JavaScript Code	Plain Text	~
SureMDM Agent	~	1 !#suremd 2 grantRun	m timePermission(com.zebra	.zsa,android.permission	.POST_NOTIFICATIONS)			
Remote Control	~							
Peripherals/Settings Co	ntrol 🗸							
App Control	~							
App Permissions	~	_						
Wi-Fi	~	_						

c) Click Save.



NOTE: The newly created job displays in the **Jobs List** section.

- 2. Granting runtime permissions and special permissions.
 - a) Navigate to Jobs > New Job > Android > Application Permission.
 - **b)** From the dialog box, add a **Job Name** and click **+Add**.

App Name		ZSA 3.0.0.5		~
Package Name		com.zebra.zsa		
App Permissions				-
Body Sensors	(i)	Grant	~] = = =
Calendar		Grant	~] = = =
Call Logs		Grant	~] = = =
Camera	i	Default	~	
Contacts		Default Grant		
Location	(i)	Deny	Ŷ	

- c) The Add App page displays. Select the ZSA App from the App Name drop-down list and grant all permissions from the App Permission list.
- d) Under the App Permissions, click Special App Access and grant all permissions specifically Display Over Other Apps and Usage Access.

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Name	25A 3.0.0.5		~
kage Name	com.zebra.zsa		
p Permissions			+
cial App Access :			-
attery Optimization	Default	-	
ttery Statistics	Default	~	
vice Administrator	Default	~	
splay Over other ops	Grant	~	•
Not Disturb	Default	_	
- 101 D 101	Grant		
odify System Settings	beny		

Modify System Settings	Default	×	••	
Notification Access	Default	~	••	
Picture-in-picture	Default	×	••	
Unrestricted Data	Default	×	•	
Usage Access	Default	~	•••	
	Default			
	Grent			
App Restrictions	Deny			+
Privacy	Prompt User			
ternove app permissions if the O	Default	~		

e) Click OK, confirm the action, and save the job.



NOTE: The newly created job displays in the Jobs List section.

Allowing the ZSA Application to Read Device Serial Numbers

To enable the ZSA application in your 42Gears SureMDM account:

- 1. Go to MDM Account Settings > Device Properties.
- 2. Select Approved Apps.
- 3. Click + Add and enter the ZSA details in the dialog box.

4. To add ZSA to the allowed list for accessing device properties:

	[견ːExport 옷 Add 🖍 Modify 📠 De
Add Approved A	рр
★ App Name	ZSA App
★ Package Name	com.zebra.zsa
★ Security Key ③ Hash	-1779391161
Allow SureMDM to sha Personally Identifiable	re the custom property data which might include data with the application approved by you.
42Gears shall not be lea application selected by Policy.	gally responsible for any PII data entered, transferred and y you. For more information, please check our Privacy
I Agree	
	Modify

- a) Enter ZSA App as the App Name.
- b) Enter com.zebra.zsa as the Package Name.
- c) Obtain the Security Key by navigating to Home > Select Device > Apps > Zebra Service Agent > Signature Key Hash. Copy and paste the Signature Key Hash value in the Security Key Hash.
- d) Accept the Privacy Policy by checking the I Agree checkbox.
- e) Click Modify to add the application to the allowed list.

- 5. To refresh the device properties in MDM, go to Jobs > New Job > Android > Run Script.
 - a) Add a Job Name and enter the following script:

ing			
ent Dashboard Inbox Jobs Profiles			
	App Store File Store OS Updates Secu	rity Reports Buy Subscript	ion A X
settings		s	ave
Knox	EA	Zebra	
Q * Script		Validate JavaScript Code	~
V I Ifsuremdm 2 GetCurrentSettings			ed e a
×			4 or 35.
×			
×			you
×			r O Job
×			i the
~			
	Settings Certifications	Settings Knox EA Q • Script 2 GetCurrentSettings V	Knox EA Zebra Q • Script Valdate JavaScript Code Plain Text 2 • Of CurrentBettings

b) Click Save.



NOTE: The newly created job displays in the **Jobs List** section.

Installing Apps

After creating the profiles, install the apps.

- 1. Go to Home, select All Devices, and then click Apply Jobs in the following sequence:
 - a. Install the App Job
 - **b.** Notification Permission Job
 - c. Application Permission Job
 - d. Get Current Settings Job
- **2.** The application is now installed on the devices.

12:22	АМ		₪ 100%
	\$		
€ ×	Internet Networks u	*	Bluetooth Off
Θ	Do Not Disturb Off	ľ	Flashlight Camera in use
<u>ل</u>	Auto-rotate On	Ð	Battery Saver Unavailable
Ŧ	Airplane mode Off	٣	
Ø	Android System	Agent	
_	Installed by your a	ıdmin	

Expected Behaviour After Auto-launching Zebra Services Agent

This section explains the behavior of the ZSA app after the auto-launching.

- **1.** Auto-launching the ZSA application on your device. The ZSA home screen displays the appropriate entitlement.
- 2. If the ZSBH module is entitled, the ZSA app automatically launches it after a few seconds.
- **3.** The ZSA home screen displays the VIFQ Smart battery health and Diagnostic tool, and if a **bad battery** condition is detected, a notification will display.
- 4. After a few seconds, the ZSA app will close.



FAQs

- 1. How do you determine which apps are installed on the devices in 42Gears?
 - a) Go to Home > Device List.
 - b) Select any device mentioned in the list.

The Application List page displays.

c) Click the Downloaded Apps tab, then scroll down or use the Search feature to find the ZSA app.

	AM						
Downloaded A	ops		System Apps		,	All Apps	
	☐ View Feedback	A Permission	Restrictions	문 Uninstall 🔟 (Clear Data 🐧 Refres	Search	Q
Application Name	†↓ Type †	Package	†↓	Version 1	App Size	†↓ Lock	†↓ Visibilit
🗋 🥱 SureMDM Agent	Installed	com.nix		27.41.07(7107)	86.098 MB	3	
🔵 😽 Zebra Services Agent	Installed	com.zebra.z	sa	2.0.0.2 (20002)	32.526 ME		
							-

- **2.** How do you verify if the app is installed with the correct permissions and is able to connect to Zebra servers?
 - a) To verify the app version, go to Settings > Apps > All apps and select Zebra Services Agent.



b) The App Info page displays the Version.



c) To verify the ZSA Permissions, go to Settings > Apps > All apps > Zebra Services Agent > Permissions.



d) To verify the Display over other apps permission, go to Settings > Apps > All apps > Zebra Services Agent > Advanced > Display over other apps.

10:24 am 🛜 * * 🛜	ଡ 4G ୷ 🕅
← App info	
App battery usage 8% use since last full charge	
Open by default Allow app to open supported links	
Unused app settings	
Pause app activity if	
UNUSED Remove permissions, delete tempo files and stop notifications	orary
Advanced	
Display over other apps Allowed	
Version 3.0.0.0	
•	

e) To verify Usage access permission, go to Settings > Apps > Special app access > Usage Access > Zebra Service Agent.



f) For the Device action > Outdoor Location Tracking feature, ensure that location accuracy is enabled on the device for precise location information. Navigate to Settings > Location > Location Services > Location Accuracy.



g) To verify ZSA Network connectivity to the Zebra URL:

Launch ZSA and go to **Settings** > **Refresh**.



10:40 am 🛜 🔹 🍷 🛜	⊘ 4G 📶 🖸
← Settings	
Connectivity	
Last connected to server Today 9:59am	
Last cached Today 9:59am	Refresh
Drop Detection	
Drop detection	
•	

h) To verify the Drop Detection status:

Launch ZSA and go to **Settings**. Enable **Drop detection**. The user can enable or disable drop detection if the administrator provides toggle access.

10:40 am 🛜 👻 🐮 🛜	ତ 4G 📶 🖪
Hi, User	
Contact Us	
🐼 Settings	
(i) About	Tool

10:40 am 🛜 🐮 🐐 🛜	ତ 4G 📶 🖪
← Settings	
Connectivity	
Last connected to server Today 9:59am	
Last cached Today 9:59am	Refresh
Drop Detection	
Drop detection	
< •	

i) To verify Data collection in a non-Zebra device:

Launch ZSA and go to **Settings** > **Data Collection**.

15:36 🔹 🛛 🛜 🔹		♥ இal 100%∎
\leftarrow Settings		
Connectivity		
Last connected to serv Today 2:39pm	ver	
Last cached Today 2:39pm		Refresh
Drop Detection		
Drop Detection		
Data Collection		
Device Data Last Uploaded: Tue, Apr 2	9 2025 3:10pm	
Battery Last collected on Tue, Ap (Collected every 15 mins	r 29 2025 3:25p \$)	m
Device Info Last collected on Tue, Ap (Collected every 16 mins	r 29 2025 3:26p s)	m
Installed Apps Last collected on Tue, Ap (Collected every 25 mins	r 29 2025 3:35p s)	m
Application Usage Last collected on Tue, Ap (Collected every 20 mins	r 29 2025 3:30p s)	m
	\bigcirc	<

In data collection, the **last uploaded time** indicates when all data was successfully sent to the server. Each data type has its own **last collected time** and a specific collection interval.



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