

e-Bridge App Requirements (Android)

1. Minimum System Requirements

- a. Android device (smartphone or tablet) running Android v4.4 or later (as of e-Bridge v6.0.0.37)
- b. Android device with the Google Play Store installed and must have a Google Account logged in (to receive push notifications for new messages via Google Cloud Messaging (GCM))
- c. If any Mobile Device Management (MDM) software is used, access to microphone and camera must be allowed for sending voice, picture or video messages. Android device must also be able to receive push notifications via Google Cloud Messaging (GCM).
- d. If using the Location Tracking feature, Android device **MUST** have a built-in GPS receiver. Device must also be running Android v5.1 or later.

2. Network Requirements

The following ports need to be open in any firewalls between the Android device and the internet for e-Bridge to communicate:

Port # (Protocol)	Direction	Destination
80 (TCP)	Outgoing	96.242.183.10 Note: This is for uploading log files to GD Tech Support for troubleshooting.
81 (TCP)	Outgoing	http://www.gdserver.net Note: This is for the Secure Messaging portion of the app.
443 (TCP)	Outgoing	https://messaging.gdserver.net Note: This is for the Secure Messaging portion of the app.
5228, 5229, 5230 (TCP)	Outgoing	GCM doesn't provide specific IPs, so you should allow your firewall to accept outgoing connections to all IP addresses contained in the IP blocks listed in Google's ASN of 15169. Note: This is used for receiving push notifications on Android devices via Google Cloud Messaging (GCM). See https://developers.google.com/cloud-messaging/http for more info.
5060, 5061 (UDP/TCP)	Both	66.227.100.0 Netmask 255.255.255.0 199.7.172.0 Netmask 255.255.255.0 199.7.173.0 Netmask 255.255.255.0 199.7.174.0 Netmask 255.255.255.0 199.7.175.0 Netmask 255.255.255.0 Note: CIDR Notation for above: 66.227.100.0/24, 199.7.172.0/22 Note: This is for the Live Streaming portion of the app.
20000-20099 (UDP)	Both	66.227.100.0 Netmask 255.255.255.0 199.7.172.0 Netmask 255.255.255.0 199.7.173.0 Netmask 255.255.255.0 199.7.174.0 Netmask 255.255.255.0 199.7.175.0 Netmask 255.255.255.0 Note: CIDR Notation for above: 66.227.100.0/24, 199.7.172.0/22 Note: This is for the Live Streaming portion of the app.

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For e-Bridge Live Streaming, only networks with a single Network Address Translation (NAT) layer are supported. If using Verizon Wireless hotspots they must be configured with a static, public IP address to eliminate a double NAT.

3. Third Party App Requirements

The following file types may not open by default on Android (depending on device). GD recommends the following third party apps to open these file types:

- a. PDF files – Adobe Reader
- b. TIF files – Fast Image Viewer Free

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REVISION HISTORY			
REV	DATE	REVISED BY	DESCRIPTION OF REVISION
A	06/29/2012	J. NejmeH	Creation of document
B	04/09/2013	J. NejmeH	Added requirement for Google Play Store for Push Notifications
C	05/13/2016	J. NejmeH	Updated for e-Bridge v4.5.0.1 Also added missing GCM port requirements.
D	04/20/2017	J. NejmeH	Updated for e-Bridge v5.7.0.1. Also added Live Streaming info.
E	06/09/2017	J. NejmeH	Add site and port for EMS Tracking component