

Baby steps to MOTOTRBO™ email

Process Overview

- Create a free email account with Google Apps
- Configure the radios using CPS
- Install the MOTOTRBO drivers and text@trbo™ software
- Connect the radio to the PC
- Run and configure text@trbo™
- Test it!

Create the email account

Use Google Apps (Gmail's engine) to create an account with your own domain name and a catch-all mailbox

- Go to <http://www.google.com/a/cpanel/domain/new> to create a free Google Apps standard edition account. If you do not have a domain name you can purchase it here for \$10/year
- When you have completed the process, go to the "Dashboard" page, click on "Users and Groups" and create a new user (e.g. "radios"). Make sure to set the password here
- On the "Dashboard" page, click on "Email" (this should be enabled by default). In the "General" page, select "Forward the email to:", enter the name of the new user (e.g. "radios") and click on "Save Changes"
- Log in the new user account ("radios"), click on "Settings" on the top right of the page, then select the "Forwarding and POP/IMAP" tab. Select "Enable POP for all mail" and click on "Save changes"

Install the software and connect the radio to the PC

- Download and install the Motorola RNDIS driver from http://www.tabletmedia.com/wt/mototrbo_usb_rndis.zip
- Download and install (do not run!) text@trbo™ from http://www.tabletmedia.com/wt/setup_text@trbo.exe
- Connect the programming cable to the back of the mobile radio and to USB port of the PC. At this point MS Windows will detect the new hardware: follow the driver installation procedure

Run and configure text@trbo™

- When you first run text@trbo™ it will ask for a code. If you do not have one, click on "Cancel" to enter trial mode
- Select "Settings | Mailbox" (F3 key), and enter the information for the catch-all mailbox created in Google Apps
 - Outgoing SMTP email: enter a valid email address in the "Name" field, the domain (e.g. "mydomain.com" and click on "Verify connection".
 - Check "Incoming email", select the "POP3 Client" transport, enter the host name "pop.gmail.com", check "SSL", enter the port "995", the mailbox name (e.g. "radios@mydomain.com"), the password and click on "Verify connection"
 - Click on the OK button
- Select "Settings | Whitelist" (F4 key), add the email address that will send text to the radio (e.g. "tom@hotmail.com") the dispatch ID "1234" and click on the OK button

That's it for the configuration!

For the gateway hardware you will need:

- MOTOTRBO™ mobile unit with LCD display
- Motorola MOTOTRBO™ mobile USB programming cable
- Microsoft Windows 2000/XP/Vista/7 PC

To exchange email you will need:

- A PC to send and receive emails
- A MOTOTRBO™ portable radio with LCD display to exchange the messages

Configure the radios using CPS

First configure the radio that will be connected to the PC:

- In General Settings, set the radio ID to 16,448,250
- In the Accessories page, make sure the Cable Type is "Motorola" (default) or "Rear PC & Audio"
- In the Network page, set "CAI Network" to "12" (default), check the "Forward to PC" box and both "ARS Radio ID" and "TMS Radio ID" should be blank (IP: 0.0.0.0)
- In the configuration page of the digital channel disable emergency scan features and set to "Color code free"

Next you configure the portable radio:

- In General Settings, set the radio ID to "59"
- In Text Messages, enter the message "Test message"
- In Network, set "CAI Network" to "12" (default), un-check the "Forward to PC" box and set both "ARS Radio ID" and "TMS Radio ID" to 16,448,250 (IP: 13.250.250.250)
- In "Contacts | Digital" add a "Dispatch Call" contact called "email" with ID "1234"
- In the configuration page of the digital channel disable emergency scan, check ARS and set to "Color code free"

Baby steps to MOTOTRBO™ email – test it!

Send an email to the radio

- From the email client on the second PC, send an email to "59.1@mydomain.com" (use the correct domain name)
- Within 30 seconds (default value) the radio will receive the message
- Click on "READ" to read it

Reply to the email

NOTE: if the radio display has returned to the top menu, click on the MENU button, scroll to "Messages", click on OK to select it, OK to select "Inbox" and OK to read it

- Once you have read the message on the radio, click on the OK button to "REPLY".
- Click on OK to select "Quick Text"
- Click on OK to select "Test message", OK again to read it
- Click on OK to send it

Send a Quick Text from the radio to the email user

- On the portable radio, click on the MENU button
- Scroll to "Messages" and click on OK to select the next menu
- Scroll to "Quick Text" and click on OK to select the next menu
- Click on OK to select "Test message", OK again to read it
- Scroll to "email" and click on OK to send it

Optional:

- You can reply to the email just received from the radio. When you do, you will see that the email is addressed to "59.1@mydomain.com".
- Send it and the radio will receive it in less than 30 seconds

That's it for testing it!

Alternative setup A: use text@trbo™ using SMTP server on a notebook with a cellular data (3G) card

Deviate from the previous procedure with the POP3 client as follows

- Skip the "Create Free Email Account" step
- Determine the IP address of the cellular data card (e.g. 79.80.22.67)
- Select "Settings | Mailbox" in text@trbo™, enter the cellular IP address in the domain field in "Outgoing SMTP email" and select the "SMTP server" transport in "Incoming email" and click on the OK button.
- To test the setup, send an email from the email client on the PC to 59.1@79.80.22.67

Alternative setup B: use text@trbo™ using SMTP server on a system on a LAN behind an internet router

The procedure is similar to the above Alternative A. Deviate from it as follows:

- Visit <http://tools.whois.net/yourip/> to determine the public IP address of your LAN (e.g. 63.206.79.82)
- Determine the local IP address of the system running text@trbo™. Ideally this IP address should be set as static.
- In the router connected to the public internet, set port forwarding for port 25 to point to the local IP address of the system running text@trbo™.
- Select "Settings | Mailbox" in text@trbo™, enter the public IP address in the domain field in "Outgoing SMTP email" and select the "SMTP server" transport in "Incoming email" and click on the OK button.
- To test the setup, when sending an email from the email client on the PC send an email to 59.1@63.206.79.82. The other tests remain the same