

RACHEL – Plus Quick Start - Support available at
<http://community.rachelfriends.org>

Before Starting:

This document was last updated 04/19/2021

WARNING: When turning off this device DO NOT simply hold the power button down. To safely shut down the device and avoid potential damage tap the power button 3 times and wait 30 seconds for the device to properly shut down.

WARNING: The first fault point in this device is the spinning disk hard drive (“HDD”). If you have not upgraded to a solid state hard drive with no moving parts, you must be especially careful when shipping, carrying, or packaging this device (even with an SSD please be careful).

Please use care when packaging the device.

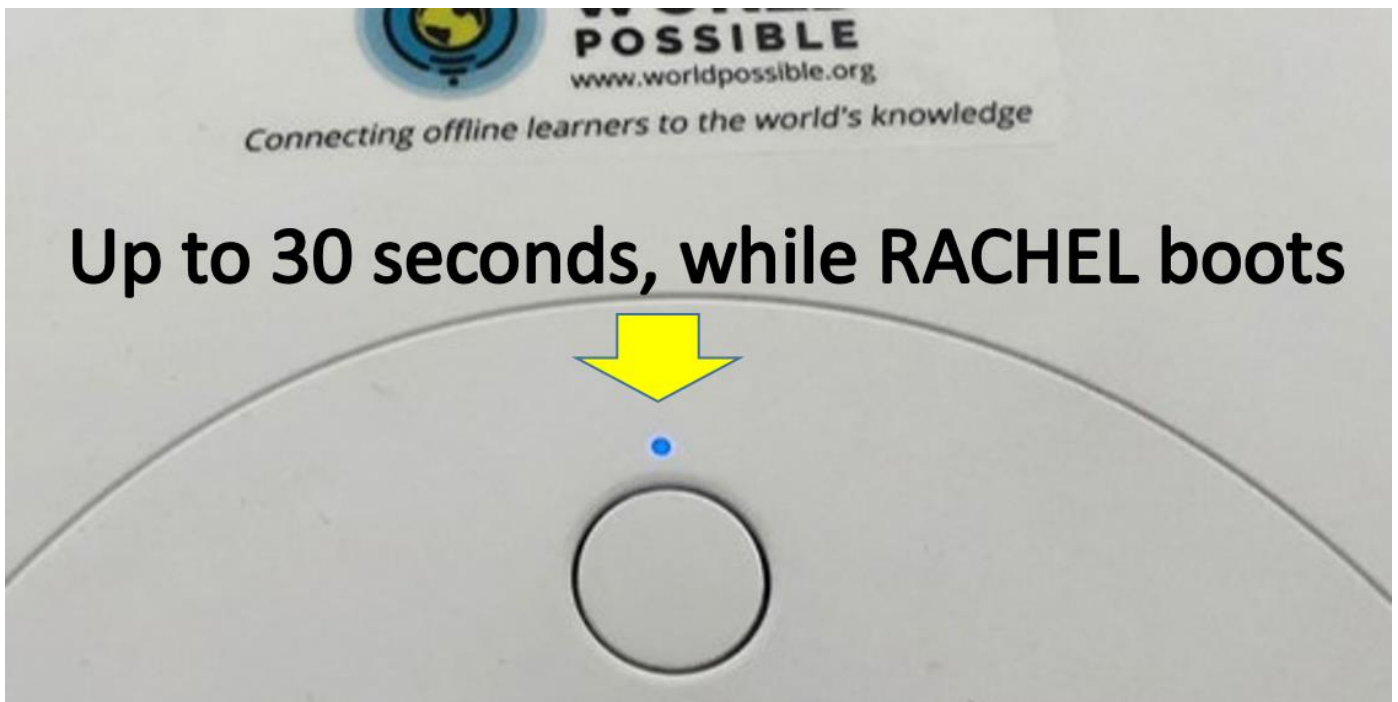
Do not operate or move the device while it is turned on.

Getting Started:

1. Push and hold down RACHEL's on button for **10 seconds** or until the blue dot turns on.



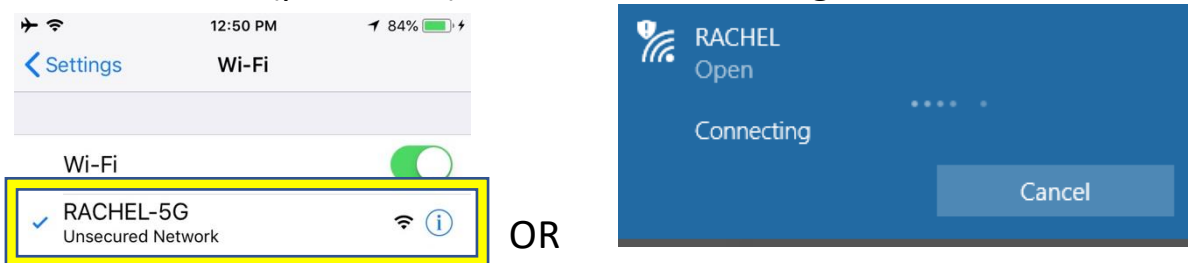
2. Small blue dot will illuminate for **30 seconds** until RACHEL activates.



- When booted, RACHEL's Wi-Fi signal light will flash slowly, you can now connect to the RACHEL wireless signal from your computer. It can take **3 minutes after flashing for all content to be ready!**



- Use your computer, tablet, laptop, or phone's Wi-Fi to connect to RACHEL-5G (preferred), or RACHEL, Wi-Fi signals.



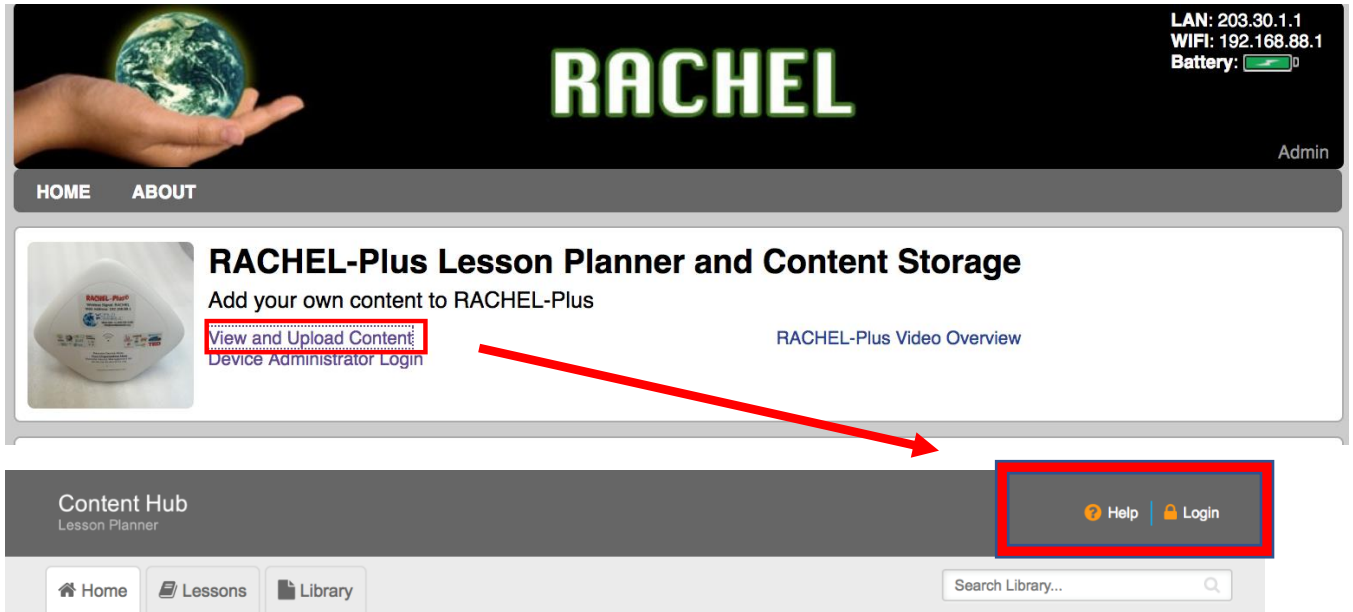
- Open your web-browser (Chrome, Firefox, Internet Explorer, or Safari) and navigate to RACHEL homepage (192.168.88.1)



From here, you can access all of the content on your RACHEL device.

Uploading Content:

You can navigate to 192.168.88.1:8090 to upload your content. The login to the content upload portal is teacher / teacher.

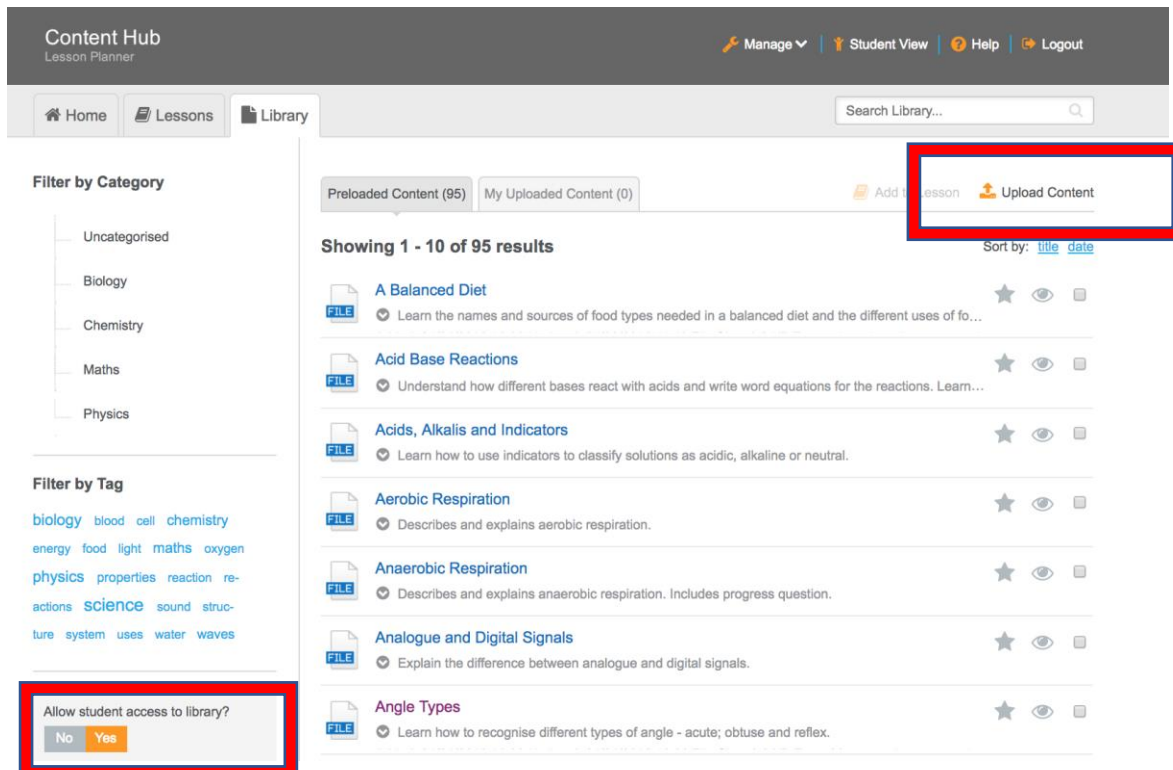


The screenshot shows the RACHEL Plus interface. At the top, there is a header with the RACHEL logo and system information: LAN: 203.30.1.1, WIFI: 192.168.88.1, and Battery: [full]. Below the header are navigation links for HOME and ABOUT. The main content area features a section titled "RACHEL-Plus Lesson Planner and Content Storage" with the subtext "Add your own content to RACHEL-Plus". A red box highlights the link "View and Upload Content: Device Administrator Login", with a red arrow pointing from it to the "Login" button in the top right corner of the interface. The "Login" button is also highlighted with a red box. Below this is the "Content Hub" section with navigation for Home, Lessons, and Library, and a search bar.

Featured Lessons

[View all lessons](#)

Here, a teacher can upload content for students to view



The screenshot shows the RACHEL Plus Content Hub interface. At the top, there is a header with the RACHEL Plus logo and navigation links: Manage, Student View, Help, and Logout. Below the header are navigation links for Home, Lessons, and Library, and a search bar. The main content area is titled "Content Hub Lesson Planner" and shows "Preloaded Content (95)" and "My Uploaded Content (0)". A red box highlights the "Upload Content" button. Below this, there is a list of lessons with details such as title, description, and icons for star, eye, and document. The list includes lessons like "A Balanced Diet", "Acid Base Reactions", "Acids, Alkalis and Indicators", "Aerobic Respiration", "Anaerobic Respiration", "Analogue and Digital Signals", and "Angle Types". On the left side, there is a "Filter by Category" section with options like Uncategorised, Biology, Chemistry, Maths, and Physics. Below that is a "Filter by Tag" section with various tags like biology, blood, cell, chemistry, energy, food, light, maths, oxygen, physics, properties, reaction, reactions, science, sound, structure, system, uses, water, waves. At the bottom left, there is a red box highlighting a toggle switch for "Allow student access to library?" with "No" and "Yes" options.

Admin Duties:

LAN: 203.30.1.1
WIFI: 192.168.88.1
Battery: [green bar]

RACHEL

Admin

HOME ABOUT

RACHEL-Plus Lesson Planner and Content Storage
Add your own content to RACHEL-Plus
[View and Upload Content](#) [RACHEL-Plus Video Overview](#)
[Device Administrator Login](#)

User Name / Password ----- Admin / Rachel+1

Admin Login

[← Back](#)

Username

Password

Login

RACHEL Admin

Modules Hardware Version Install Stats Settings Logout Login

You can show and hide modules here, or change the order by dragging them.
Be sure to click "Save Changes" at the bottom of the page.

sort en sort es sort fr
hide en hide es hide fr hide all show all

er-local_content - RACHEL-Plus Lesson Planner and Content Storage	hide
er-moodle - Moodle on RACHEL	hide
er-saylor - Saylor Academy Textbooks	hide
er-boundless - Boundless Textbooks	hide
er-openstax - openstax Textbooks	hide
er-ck12 - CK-12 Textbooks	hide
er-coreknowledge - Core Knowledge	hide
er-algebra2go - Algebra2Go - Prealgebra	hide

1. On the Modules tab, you can sort, hide, or rearrange the modules on your device, so that other users can or cannot see content when they go to the RACHEL homepage. Click Save when finished.

2. On the Hardware tab, you can view available storage, and shutdown the device. Select **Advance Hardware Control** to turn Internet Off and assess networking security settings.

RACHEL Admin


Modules **Hardware** Version Install Stats Settings Logout

Storage Usage

Location	Size	Used/Available	Percentage
/media/RACHEL	917G	312G / 559G	36%

System Shutdown

RACHEL-Plus



To safely shut down, just press the power button for one second and release. The unit will power off after a few moments.

You can also shut down or restart here:

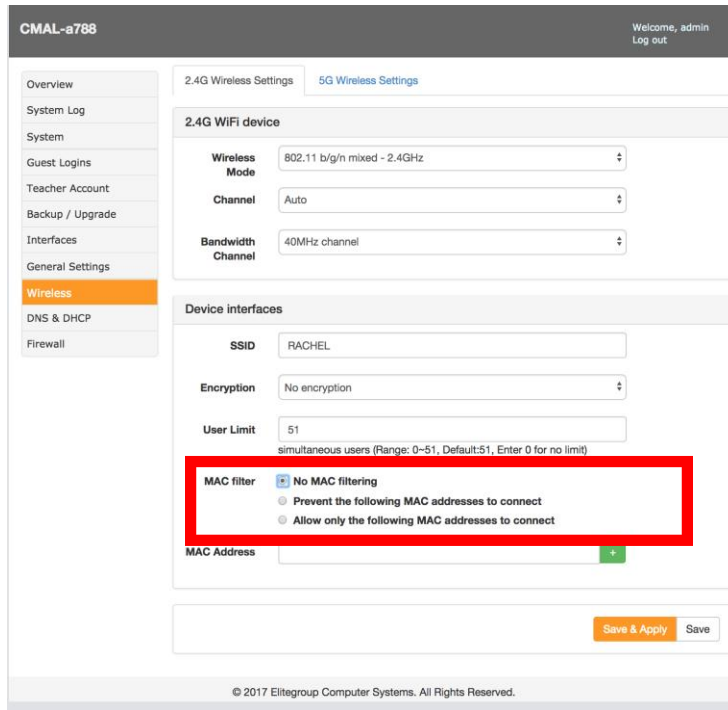
Shutdown Restart

Advanced Hardware Control

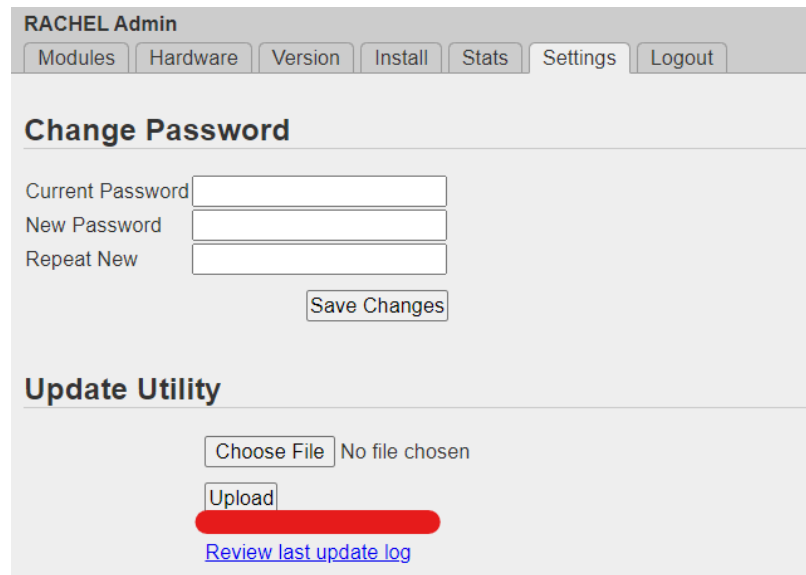
To modify advanced hardware settings (WiFi, DHCP, Firewall, etc.) please [click here](#)

Note: The settings in the advanced hardware control can cause your RACHEL to stop working. Do not change unless you know what you are doing.

3. For advance users - You can also increase security by reviewing the Wireless setting. You can set MAC addresses of your computers to access only into RACHEL.



4. Repairs and Updates – If necessary, World Possible will send by e-mail repair packages to you. You will download them to your computer and then use the “Update Utility” in “Settings” to upload the device



DataPost:

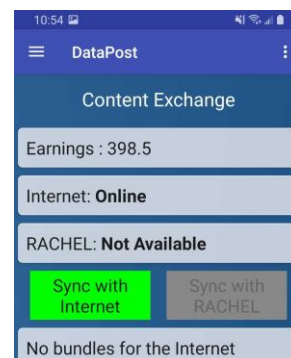
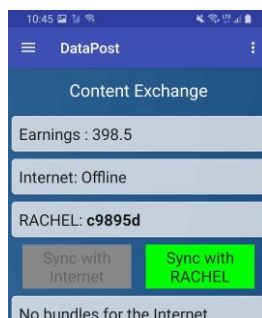
In 2021 World Possible released DataPost as a quick and easy way to get information to and from your RACHEL device without needing to put RACHEL on the internet. Anyone travelling to your RACHEL device with an Android Phone can serve as a digital mail courier, bringing new e-mails to RACHEL and picking up outgoing e-mails from the device. Included automatically in outgoing emails are usage logs of your RACHEL device that send to World Possible so we can analyze and display usage data.

Requirements:

- RACHEL-Plus 3.0 purchased in 2021 with a DataPost sticker
- Android Phone running Android 9.x or newer
- Latest DataPost app on your Android Phone
 - (<http://community.rachelfriends.org/t/latest-android-apk-file/1646>)
- Patience – this feature is in testing (beta) mode

Usage Data Collection with DataPost:

1. Download the DataPost app to your android phone
2. Connect your android phone to the RACHEL WiFi Signal
3. Open the DataPost app on your android phone and press Sync with RACHEL



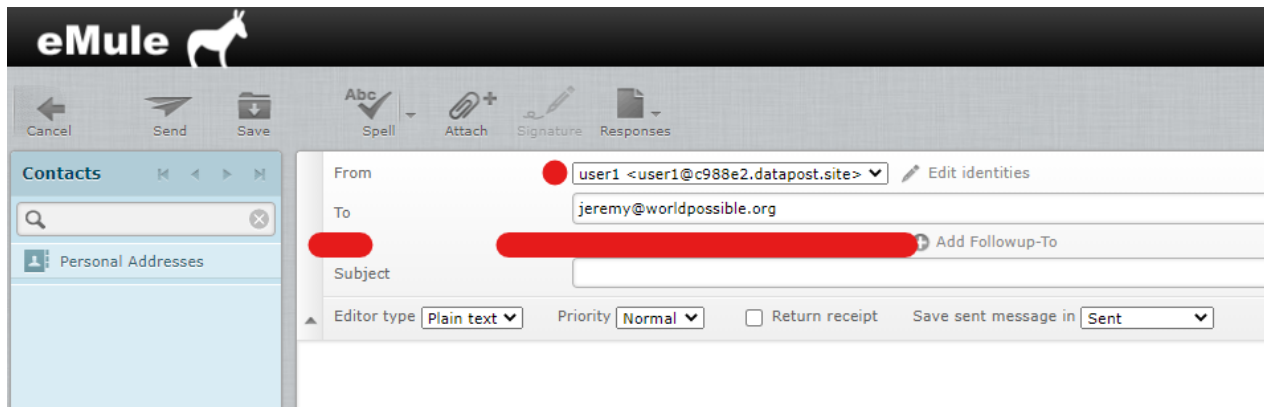
4. Return with your android phone to a place with internet or data connectivity, open the DataPost app and click Sync with Internet

Email Communication with DataPost:

Individual users of RACHEL can also use an e-mail account on RACHEL to send and receive e-mails. The e-mails will only be delivered when a DataPost courier picks up the bundle from RACHEL and delivers it to the internet or vice-versa. RACHEL comes preloaded with 25 email accounts (user1, user2, ... user25) all with the password of: password



They can address e-mails to any e-mail account on earth. If you are a project sponsor, you can send an e-mail to them from your Gmail or any other email service you use.

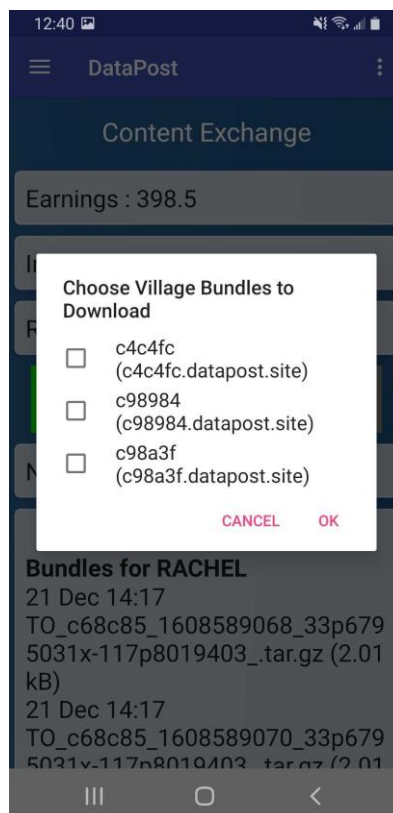


The end of their email address (the domain) is assigned by RACHEL device using a six digit code that matches the RACHEL MAC ID.

For instance user1@AB12CD.datapost.site where AB12CD changes based on each RACHEL device.

When using the app to pick up a bundle of e-mails from the internet destined for RACHEL, the android phone user **must first have picked up a bundle from RACHEL and delivered it to the Internet.** This process ensures the android phone user at one point had physical access to the RACHEL device and can be trusted to carry e-mails.

While your android phone is connected to the internet, open the DataPost app and Sync with Internet. If you have access to any RACHEL devices that have data needs, they will appear in a list.



DO NOT DOWNLOAD DATA IF YOU DO NOT INTEND TO DELIVER IT TO THE CORRECT RACHEL. DATA WILL BE LOST AND WILL NOT DELIVER TO THE WRONG RACHEL.