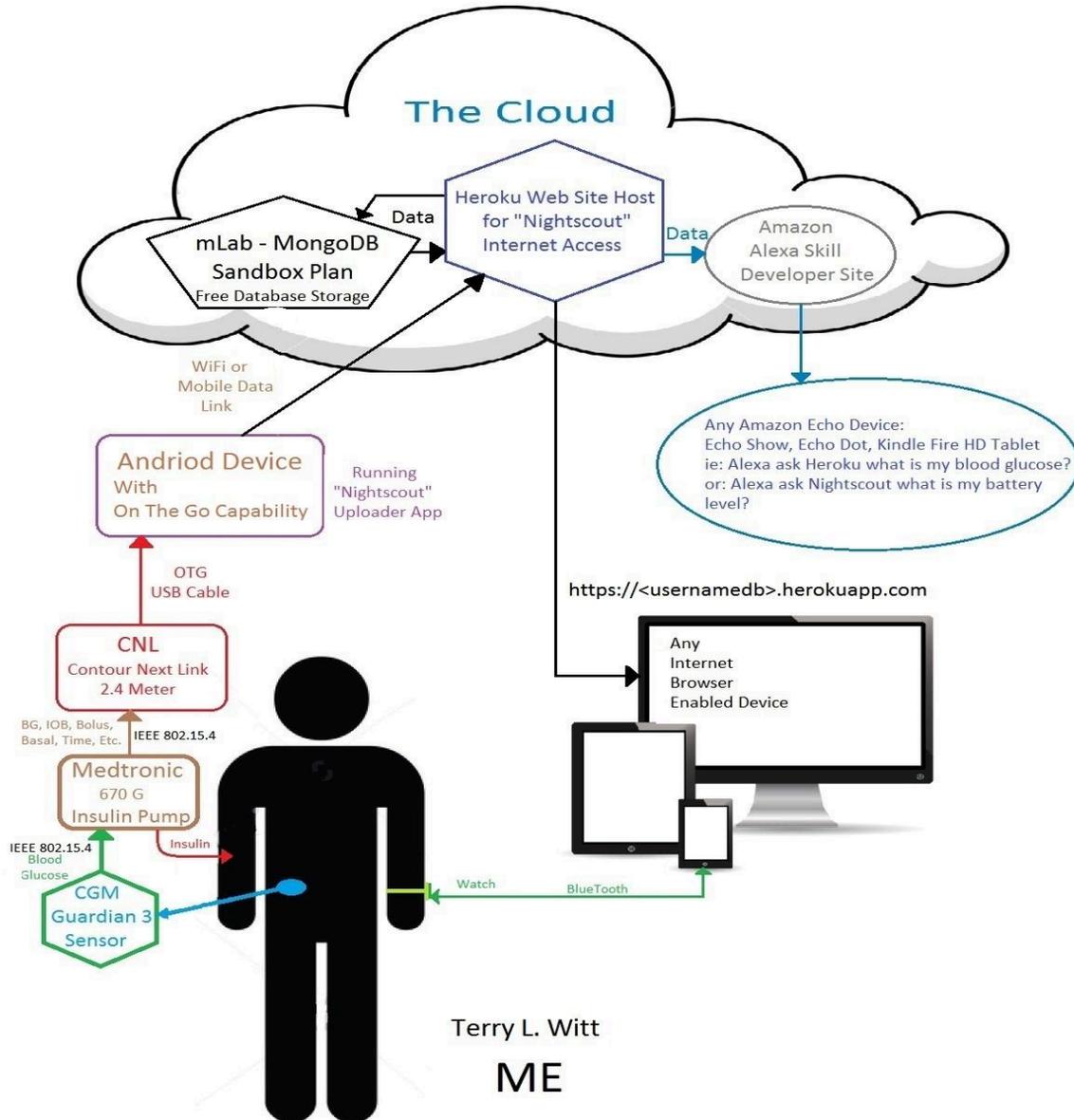


Warning!!! This Cookbook may not work after Sep 1, 2020

Stop!!! ◆ Go Here to continue:

<https://docs.google.com/document/d/1iXcqUPIPFAKyjc9t2gisHJAKzC6szxE7nrce6gZI7Fs>



To request changes to this document, message, [Terry L. Witt](#), [Shelby Cox Hughes](#)

## **Step 1: Acquire the necessary hardware:**

**a: An Extra Contour Next Link 2.4 (CNL) BG meter – Bayer Ascensia**

**Note:** You can use your existing CNL, but it is more convenient to have two. Your Medtronic rep or your CDE will often give an extra one free for a child!

**b: On The Go (OTG) serial cable – short and flexible**

This is an Amazon suggestion:

**[OTG Cable Suggestion](#)** If Required: **[Micro USB to USB C adaptor](#)**

Or **[USB to USB C OTG cable](#)**

Also available from **[Officeworks in Australia](#)**

**c: Compatible Android Uploader Device - (phone or tablet)**

**Note:** Two Uploaders may be required for 7/24 live readings. (can not charge and upload simultaneously except for dedicated wireless charging devices)

## **[Current Android Uploaders List](#)**

### **What is the 600 Series Android Uploader?**

The 600SeriesAndroidUploader is an app to upload data from your 600 Series insulin pump to a **[Nightscout website](#)**. The app communicates with your 600 Series insulin pump using the Contour Next Link 2.4 USB stick, which must be connected to your Android device with a USB On-The-Go (OTG) cable.



Step 2: Print this page out for notes:

GITHUB INFORMATION

<https://github.com/>

<p>GitHub Username</p>	<p>This is the source repository of the code for your website. You need this if you ever upgrade to the latest version of Nightscout software.</p>	
<p>GitHub Password</p>		

Heroku INFORMATION

<https://heroku.com>

<p>Account Email</p>	
<p>Account Password</p>	
<p>Date account setup</p>	

App name	
<b>API_SECRET</b> Alias Secret Passphrase	

When finished with Step 3: Record your website name (**Nightscout URL**) here!

**Extremely Important for future use.**

**https://** **.herokuapp.com**

## Downloader Setup

**Note:** This guide assumes that this is your **first attempt** at setting up Nightscout and works best if you do not have any existing Github or Heroku accounts. If you do already have accounts then please log out of each before proceeding. It works best using PC/Mac/Tablet, all **new** usernames, appnames, email addresses, & Credit Card!

Step 3: **“Sign up for GitHub”** – **GitHub** is a data saving CLOUD site

<https://github.com/> Note: write down Username & Password

Please --- enter **Username - Email - Password**

a: Choose **“Free”** then pick **“Continue”**

b: On the bottom of the next page - pick **“skip the step”**

c: On the next page – pick **“Start a project”**

d: Go to your webmail and check for email sent to address you entered at sign-up and pick **verify the email address**

e: Close all **GitHub** webpages

f: Open <https://Heroku.com/> Select: **“Sign up for Free”**

**Note:** **“Heroku”** [Heroku: Cloud Application Platform](https://Heroku.com/) is a webpage hosting CLOUD site

Fill in required fields: Name etc.

Role<sup>\*</sup> - **Other**

Primary Development Language<sup>\*</sup> - **I'm not a developer**

Check **I am not a robot**

Select **“CREATE FREE ACCOUNT”**

**Verify the Heroku account email!** Enter: Password twice and write it down!

g: **“CLICK HERE TO PROCEED”** New page shows **“Welcome to Heroku”**  
Click on Ninja icon on the top right-hand side and to verify you are logged in!

h: Click **“Create new app”**

i: Enter a new/unused **“appname”** then **“Create app”** Note: Write it down!

Halfway down in the middle of the page on the left side you will see an option - Deployment method - then to the center -

Select **“GitHub / Connect to GitHub”** then on the bottom of page

Select **“Connect to GitHub”**

**“Authorize Heroku”** and if requested - enter your Github **username/email address** and **password** in and let Heroku connect to it.

j: Click the  icon in the top right corner. Go to **“Account settings”** then **“billing”** then **“Add credit card”**. Fill in CC details. Heroku

says they use this to verify you are a real person etc. I would use a Credit card, not a debit card. \*\* Your build will fail if you don't do this step credit card step.

k: Close all browser pages except **Cookbook!**

l: Open web browser and enter in address bar

<https://github.com/nightscout/cgm-remote-monitor>

m: Pick  **Fork** in the upper right-hand corner – **wait!** for new page

n: Scroll down the page until you see –



o: Pick  and **wait!**

p: In **App name** enter a name to use in your personal NightScout web site

Sample name: mynamebgs – **Note:** The database name must be lower case. A good practice is to simply put db on the end of your username, but it's entirely up to you. **WRITE IT DOWN!**

q: **API\_SECRET** - Enter your secret phrase (passcode)

REQUIRED: A secret passphrase that **must be** at least **12 characters** long

Sample phrase: **isnotlifewonderful** – No special characters Write it down!

r: **CUSTOM\_TITLE** - Enter **custom title** for your web page

Sample: MyFirstNameBGs Note: This can be changed later in the Web downloader site.

s: **DISPLAY\_UNITS** - Enter appropriate **mg/dl** or **mmol**

Note: you can toggle mg/dL or mmol/L later in settings on the Downloader site display.

t: **ENABLE** - Enter **careportal basal iob cob cage sage iage  
bage alexa pump speech cors**

*Copy and paste works well for this and you can come back later and edit in Heroku site Make sure it is a word then a single space between the words!*

u: Scroll to the bottom of the page and pick **Deploy app**

Wait for ..... **Your app was successfully deployed.**

v: Pick **View** Then Pick **Authenticate** at bottom of Profile Editor page

Authentication status: Unauthorized (**Authenticate**)

Enter your **API\_SECRET** (Pass Phrase) **Save** to the local browser!!

Set proper **Time Zone!** Then **Save**

Go back one page or enter your site as listed below!

Write down on note page your **websitename** (Nightscout URL)

Example: **https://appname.herokuapp.com**

Yeah! **Save this site in Favorites** - **Done** with Downloader setup

## - Now for the Uploader

This file is **not** available from the Play Store and must be downloaded from GitHub. If the file does not download properly, try with a different internet browser ie. Chrome, Firefox, etc.

## Preparing

1. On your Android Uploader device, check the battery is well charged, ensure that it's connected to Wifi and that the time is set correctly *Note - Make sure you are not in **family/child protect** mode*
2. Navigate to **Settings > Security**
3. Turn **ON** the **Unknown Sources** setting (this allows you to install APK files from outside of the Google Play Store)
  - *Note - you can turn this off again after you have completed the APK installation*Do not connect the CNL USB stick yet

**Install the APK** Download the APK to your device from here. Beware that turning on child protection can inhibit the installation and operation of this application.

Look under **Assets 3** or Pick on the red text below:

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1. <https://github.com/pazaan/600SeriesAndroidUploader/releases/>
2. Download file: [Arecibo \(v0.7.1\)](#)  
**[600-series-ns-uploader.apk](#)**
3. Open the APK and accept the app's access rights
4. If having problems finding/opening then download and install this File Manager and look in Download folder for the file.  
<https://github.com/pazaan/600SeriesAndroidUploader/releases/tag/v0.7.1>

## Configuring the app

Open the new app **600 Series Uploader**, read the pop-up Disclaimer notice carefully - and accept it if you want to continue

Select the **Preferences** (the hamburger icon) menu button.

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### In Settings :

- a. **BG** units you want to use - **mg/dl or mmol/l**
- b. **Send to Nightscout** Enable upload of data to Nightscout: **on**

- c. **Nightscout** URL to : **https://<yourappname>.herokuapp.com**  
Please enter carefully! Do not enter <> or have extra spaces or enter (return) keys.
- d. **API Secret** to the **Passphrase** you used Heroku website

Note: Other settings are optional. Feel free to explore and test them all.

Plug in your (CNL) Contour Next Link 2.4 to your Android device using the USB OTG cable and confirm usage.

Goto **Menu**: (Three horizontal lines - sometimes called the “Hamburger”

Select the **Registered devices to confirm** that your **CNL** serial number is registered. You can have more than one!

Return to the **Main** screen, and press the **Read data now** button

- You should see a status message in the log area below the buttons, and the top section should update with status information from your pump
- Your numbers should arrive on your Nightscout website within a few minutes.

**Done!!!!!!** Check out the **Addendum** below for more advanced options!

**Downloading** - any web browser ie phone, tablet, pc, mac, iPad, etc

**Do not** enter **brackets** when entering the site address!!!

Enter [https://\(yourappname\).herokuapp.com](https://(yourappname).herokuapp.com)

That's it - **YEAH** again! Now stand up turn around 3 times real fast and jump while shouting “**YipPee**”

## Addendum

Nightscout Web Page Guide

<http://www.nightscout.info/wiki/welcome/website-features>

Grilled Cheese (0.9+) update to the Nightscout

<http://www.nightscout.info/wiki/welcome/website-features/0-9-features>

## On the uploader - Menu - Settings - Advanced System Settings

Change History Backfill Period: Select - 90 days

Change Pump Backfill Period: Select - 90 days

**Profile Editor:** On the uploader go to **Menu** and pick the “**Update pump profile**” to upload pump settings to the cloud. Then on the downloader display pick the **Profile Editor** and check/modify entries as needed. Some must be set manually.

## Changing Alarm Settings, Theme Color, or Pump plugins

Go to <https://www.heroku.com>

Log in if required with an email address and password for Heroku

Under Personal - Select your **appname**

In the center of the page: **Settings** Then **Reveal Config Vars**

You can then find the alarms and edit each to set to your personal values!

Values will change when you reload/refresh your webpage.

**DISPLAY\_UNITS** - Enter appropriate **mg/dl** or **mmol**

Note: Recommended settings: **must be set using mg/dl units**

**mmol/L = mg/dL / 18**

TIR (Time In Range) is normally defined as an SG of **70 to 180**

but feel free to set to your desired settings.

**BG\_HIGH = 260** Urgent high BG alarm

**BG\_TARGET\_TOP = 180** Non-urgent high BG alarm, top of target range

**BG\_TARGET\_BOTTOM = 70** Non urgent low BG alarm, bottom of target range

**BG\_LOW = 55** Low BG alarm

To Add Plugins – At bottom of the page below the TIME\_FORMAT

Select: **Add** for each Key entered!

Key

Value

<b>PUMP_ENABLE_ALERTS</b>	true	
<b>PUMP_FIELDS</b>	reservoir battery clock status	
<b>DEVICESTATUS_ADVANCED</b>	true	
<b>CAGE_DISPLAY</b>	days	
<b>SHOW_FORECAST</b>	false	
<b>BASAL_RENDER</b>	default or icicle	Note: I prefer icicle!
<b>SHOW_PLUGINS</b>	careportal basal cob cage sage iage bage iob pump	

Now would be a good time to look at Pushover for alarms/text messages!  
[Nightscout Pushover Setup Guide](#)