Safety Suite

Option Selection, Installation, Setup & Connection Guide

Safety Suite is an annualized, paid software solution from Honeywell that provides real time data and device management features for BW & RAE branded personal, portable, and transportable gas detection devices. It is essential to understand your options to properly install the software and have it function as needed by your business.

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1. FIRST... Verify your PC is Ready

You must verify you have minimum required specifications on your PC...

- Using a PC (not Apple computer) running Microsoft Windows 10 or 11 or on a server running Windows 2012, 2016 Server (2019 Server coming Q3 22)
- Running i5/ i7 Intel Quad Core processor or higher with 2.3 GHz CPU
- **Minimum 16 GB RAM** / Recommend 32 GB RAM

THIS STEP IS CRITICAL OR THE SOFTWARE MAY NOT INSTALL OR RUN PROPERLY ON YOUR COMPUTER.

CPU processing speed is a combination of GHz speed of the processor and the number of cores (CPU's) that are running.

If you have questions, please contact Safety Suite Tech Support at 1-833-556-3515
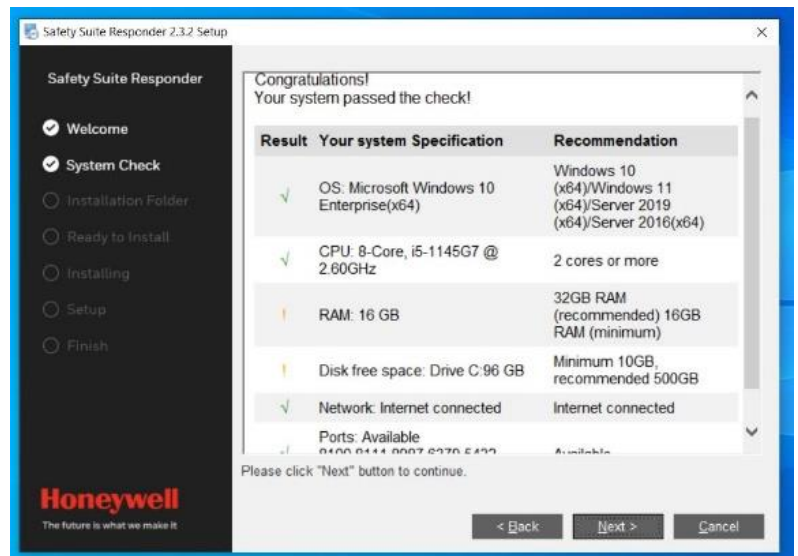
2. Understanding your Choices

Once you have confirmed your PC is setup properly, there are THREE (3) key choices you must make with your Safety Suite software solution.

- A. **Safety Suite comes in an "Industrial Plant" version or a "Responder" version.** There is NO price difference between these two options.
- B. Both versions can be used in a **CLOUD** installation OR an **ON PREMISE** installation. There is NO price difference between these two options.
- C. Both versions have the option to purchase **Deluxe** licenses (device management capabilities ONLY) or upgrade to a **Premium** license which delivers real time data AND device management capabilities.

All these options are reviewed on the [Safety Suite section of our website.](#) If you need help determining your best combination of options, contact your Regional Sales Manager or Honeywell **Safety Suite Tech Support at 1-833-556-3515.**

A. Choosing Safety Suite for Industrial Plant OR Safety Suite Responder

Knowing which version of the software meets the unique needs of your business and gas detection deployment application is essential. Review your options for the type of Safety Suite you want to install.

Safety Suite industrial plant version

- Focused on industrial applications
  - Oil & Gas refineries
  - Chemical & petrochemical plants
  - Industrial construction projects
  - Manufacturing facilities
- Select this option if you…
  - Have gas detection equipment that is deployed for longer terms and/or 24/7 monitoring at plants or expanded worksites using a mix of personal and portable Honeywell gas detection instruments
  - Have a need to monitor more than one site or area and separate individual users' access to different sites
  - Have a mix of real time reading instruments or a fleet of personal gas detection devices that need to be managed
  - Need to monitor workers with assigned devices
  - Need geofencing capabilities to handle perimeter monitoring and confined space applications when knowing where workers and devices are in real time is essential

Safety Suite Responder

- Primarily utilized with portable RAE instruments for perimeter monitoring and larger instruments shared by many users
- Quickly deployed only as needed during emergency situations for hours/days at a time
- Select this option if you are:
  - Municipal Police, Fire & HAZMAT teams
  - Environmental monitoring
  - Large event monitoring (Super Bowl, NASCAR, political gatherings, etc.)
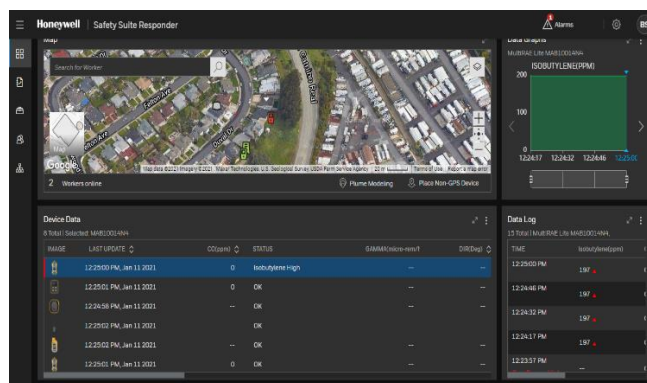
B. Choosing CLOUD or ON PREMISE Installation

There are advantages with either a CLOUD or an ON PREMISE installation which are dependent on your access to internet connectivity, your specific deployment of devices and software, and how closely you need to work with other entities that also utilize Safety Suite and BW/RAE devices.

CLOUD version of Safety Suite offers:

- ONE database for all devices and users
- ONE License Key to access a common pool of all device licenses
- Supports an unlimited number of PC's & gateway installations
- Universally accessible online 24/7/365 by any authorized user
- No need to share/move licenses between software installations or worry about having enough to go around… always ready
- New Keys/Device Licenses can be added anytime
- Requires gateway utility software on each connected PC

With CLOUD you must remember…

- MUST have 100% internet connectivity for software to work
- CLOUD will not interconnect with ON PREMISE installations
- Mutual Aid feature is NOT available on CLOUD Licenses

ON PREMISE version of Safety Suite offers:

- All data is stored locally on the PC (or PCs in Shared Account setting)
- **Provides the ability to work OFFLINE as needed** (though it works best when ONLINE)
- Allows for Mutual Aid feature between other ON PREMISE installations
- Supports multiple PC's when using the Shared Account setting
- **OPTIMAL for First Responder applications**
- Requires gateway utility software on each connected PC

With ON PREMISE you must remember…

- Requires users to update all PC's Safety Suite software on each separate PC installation
- Limited visibility to external users for real time monitoring.
- Only viewable externally from PC when other PC is connected to the same network and IP address is accessible by external PC.

Here are some additional features that differentiate the CLOUD and ON PREMISE versions of Safety Suite industrial plant and Safety Suite Responder applications

	Responder - CLOUD	Responder – ON PREMISE	Plant Industrial - CLOUD	Plant Industrial - ON PREMISE
Can create individual SITES	NO	NO	YES	YES
Works when OFFLINE / disconnected from internet access	NO	YES	NO	YES
Will share data via Mutual Aid with other PC's	NO	YES	NO	NO
Provides geofencing capabilities for real time device/worker movement & mapping	NO	NO	YES	YES
Provides creation of sub areas to evaluate known risk factors at a site	NO	NO	YES	YES
Delivers real time outbound messaging to connected devices based on geographic site selection	NO	NO	YES	YES
Ability to create and use static images (SITE MAPS) with geo-referenced points instead of real time mapping	YES	YES	YES	YES
Control user access by SITE	NO	NO	YES	YES
Real time mapping of connected workers/devices visible to ANY authorized logged in user	YES	NO - Only on PC where software is installed	YES	NO - Only on PC where software is installed

C. Selecting Premium vs. Deluxe licenses

Now that you have chosen the version of the software and how it is deployed, you must select the type of licenses you need. Below is the description of all licenses…

- **Premium Licenses** are necessary if you want to connect devices and gather data in real time.
    - o Will be included for all ProRAE Guardian licenses transitioned to Safety Suite
    - o For any wirelessly connected devices (AreaRAE, RigRat, MultiRAE, QRAE3, etc.)
    - o For tracking individuals carrying BLE enabled portable devices (BW Icon, BW Flex, etc.) that are paired with end users pushing data via the Safety Communicator app.
    - o Premium license includes all Deluxe license feature functionality
    - o 2022 List Pricing per device license = $ 100 for 1YR, $270 for 3YR, $425 for 5YR
- **Deluxe Licenses** if you simply need to manage the configurations and historical data of a fleet of gas detection devices.
    - o Includes any devices that are either networked to the software via an IP address like docking stations (IntelliDoX, AutoRAE2 Controller)
    - o Any locally connected individual BW or RAE devices via an IR cable, travel charger, or stand-alone charging/communications cradle.
    - o 2022 List Pricing per device license = $ 25 for 1YR, $68 for 3YR, $106 for 5YR

NOTE: On the next page are descriptions of Premium vs. Deluxe licenses.

Module	Category	Feature	Deluxe	Premium
Device Management	Single-Device Operations	Device & Sensor Configuration	✔	✔
		Firmware Updates	✔	✔
		Download, Store, View & Export Data	✔	✔
		Event, Calibration & Bump Test Reporting	✔	✔
		User Management – Setup Users & Assign Devices	✔	✔
	Multi-Device Operations	Multi- Device Configuration Templates	✔	✔
		Multi-Device Download, View & Export Data	✔	✔
		Multi- Device Event, Calibration & Bump Test Reporting	✔	✔
	Customization	User Defined Fields	✔	✔
		Reports Customization	✔	✔
	Advanced Features	Historical Data Dashboard	✔	✔
		Bump Test & Calibration Forecast	✔	✔
		Worker Device Assignment Kiosk	✔	✔
		Report Repository	✔	✔
		Multi-Site Management**	✔	✔
	Automation	Scheduled Data Download	✔	✔
		Automated Data Download & Firmware Update	✔	✔
		Scheduled Reporting	✔	✔
		Historical Event Notifications	✔	✔
Real Time	Basic Features	Real-time Instrument Readings		✔
		Map View with Worker Location		✔
		Live Alarms/ Alerts		✔
	Advanced Features	Real-Time Dashboard		✔
		Incident Playback		✔
		SMS Communication		✔
		Plume Modeling with Aloha		✔
		Data Sharing / Mutual Aid*		✔
		ChemResponder Integration*		✔
	Automation	Live Event Notifications		✔
		Geo-fence Notifications		✔

D. Understanding your License Key

License Key 12XB 5GH2 6DC7 XW43 99PL

10 Active Device Licenses

1. A Safety Suite License Key is a 20 digit alphanumeric code which defines a set number of Premium or Deluxe licensed ACTIVE devices available within the software Example… License Key ending in 99PL pictured here has 10 active Safety Suite device licenses

2. License Keys are generated as either Premium or Deluxe and contain as many Active Device licenses as requested in the customer's order.

3. License Keys are agnostic to the version of software (plant industrial or responder) or the manner (Cloud or On Premise) that it is being used by the customer. Once these selections are made, the License Key can be loaded in the software. (See Creating a NEW Safety Suite account)

4. Device licenses enable any BW or RAE device to pass data (either real time via a wireless connection, or historical via IR cable or docking station) to the software

5. Each purchased device license is NOT specific to any device or serial number and can be used with any BW or RAE gas detector.

3. Creating a NEW Safety Suite Account

Now you are ready to decide on how you want to move forward with Safety Suite. Circle your choices here for future reference:

I want this version of Safety Suite…   Industrial Plant   Responder

And I need these licenses to be…   Premium (includes Deluxe)   Deluxe Only

And I will install the software using…   CLOUD   ON PREMISE

The difference between a CLOUD installation and an ON PREMISE installation is critical to start your new Safety Suite account. Make sure you have a good internet connection.

To select CLOUD, go to https://ss.honeywell.com

in your Google Chrome or Microsoft Edge browser. Do not use Internet Explorer. This is the main CLOUD login screen used to access the software going forward.

Select Request Account in the bottom right-hand corner below the sign in section.

Now you are either requesting a trial or you have a License Key and are ready to get started with your new account.

To Request a CLOUD TRIAL ACCOUNT…

1. Select "I need a trial account" and click on the dark blue REQUEST TRIAL ACCOUNT box.
2. Next fill out your company information in the top portion. Everything with a RED dot next to it must be filled out or you cannot complete the request for an account.
3. Next select your Offering Type – INDUSTRIAL PLANT or RESPONDER
4. Next select your Package - SAFETY SUITE PREMIUM or SAFETY SUITE DELUXE.
5. Complete your application for the trial with your own personal data and select SEND REQUEST at the bottom of the form.
6. IMPORTANT POINTS TO REMEMBER…
    a. The individual filling out this data will be the Customer Administrator and the primary contact for software.
    b. Once the trial is submitted, the applicant will receive an email from Honeywell acknowledging the submission. Check your junk/spam folder if the email is not received within five minutes of completing your application.
    c. **Trial approvals can take up to three business days AFTER they have been submitted.** You can schedule this installation with your Regional Sales Manager and a Safety Suite Tech Support person to speed this process and get some help with your account setup.
    d. Trial accounts are good for 30 days from activation for up to 5 Premium and/or 25 Deluxe device licenses.
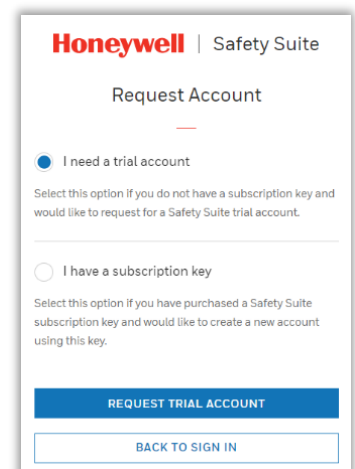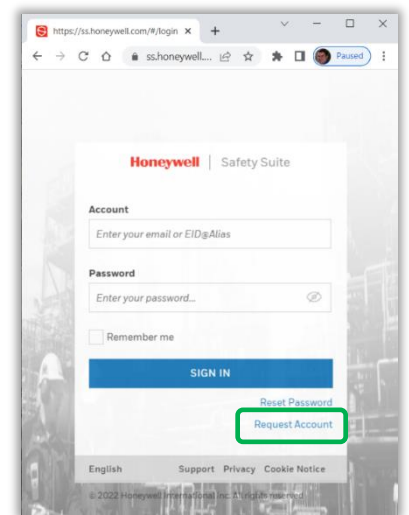
Or to set up your new CLOUD account with a License Key…

1. Select "I have a subscription key" and click on the dark blue CREATE ACCOUNT box.
2. At the top of the Subscription Details is the place to input your 20 digit alphanumeric License Key.
   a. Copy and paste your License Key if you received a PDF copy in your email or hand key it in
   b. Your License Key will have a green check mark next to it when it is filled in properly and matches the License Key on the Safety Suite platform
   c. NOTE: Your License Key was created either as a Premium or Deluxe Key when it was purchased so there is no selection required in this new account set up process.
3. Next fill out your company information in the top portion. Everything with a RED dot next to it must be filled out
4. Next select your Offering Type - PLANT or RESPONDER
5. Complete your application for the trial with your own personal data and hit SEND REQUEST.
6. You will receive an email from Safety Suite with a six letter code on it and a link back to https://ss.honeywell.com
7. When you get back to the initial login screen, enter your email address that you used in the account setup and the six letter code in the password section to login.
8. You will be immediately prompted to set up a new password for the account. Be sure to follow the specific steps to set up a properly configured password.
9. Once this is completed, you will have to login again with your newly created password.
10. Congratulations… you now have a Safety Suite CLOUD account set up and ready to go.

11. IMPORTANT POINTS TO REMEMBER…

a. The individual filling out this data will be the Customer Administrator and the primary contact for software

b. The Customer Administrator is the first authorized user and is responsible for setting up other users in Safety Suite.

c. Please contact **Safety Suite Tech Support at 1-833-556-3515** if you have any additional questions.

To select ON PREMISE option, you must first download the software

https://sps.honeywell.com/us/en/software/safety/connected-safety/safety-suite
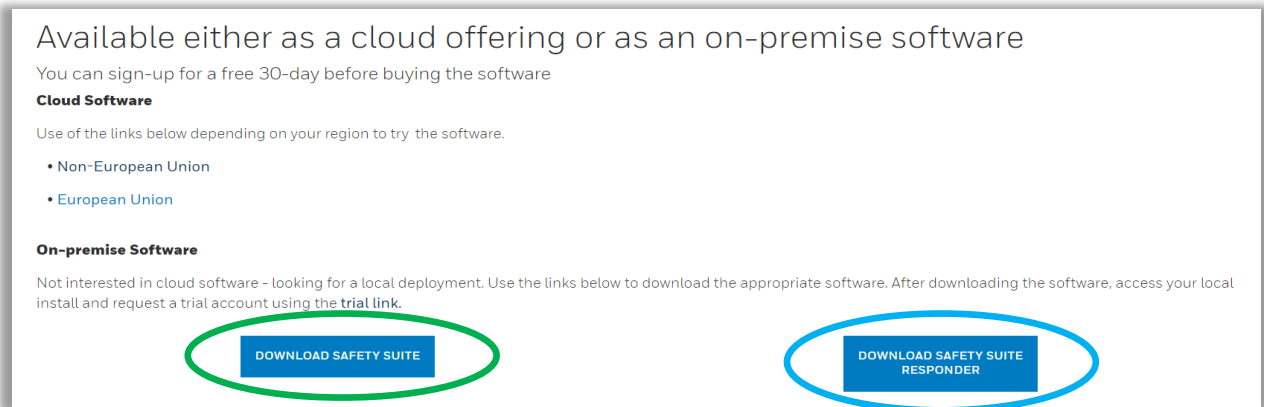
1. Scroll down to the two software options in the blue boxes (shown above)
2. Download the On Premise software from the website by selecting which software you want.
   a. DOWNLOAD SAFETY SUITE on the left provides the Plant Industrial version of Safety Suite On Premise software
   b. DOWNLOAD SAFETY SUITE RESPONDER on the right if you are a First Responder.
   c. NOTE: The file is 756Mb, so it may take some time to download depending on your internet speed.
3. The software downloads into a zipped file. Make sure to right click and "Extract All"
4. When the file is extracted, right click on the Setup file and "Run as Administrator". The file will show it is still extracting files.
5. When the Setup is completely opened, you will be prompted to run the Safety Suite installer (see example of installer right). Follow the directions on the installer until the setup is finished.
   a. **YOU MUST HAVE ADMINISTRATIVE RIGHTS ON YOUR PC TO INSTALL THE SAFETY SUITE SOFTWARE!!**

6. Open the software on your PC (see attached) either from the Safety Suite Icon on your desktop OR by opening an internet browser (Google Chrome or Microsoft Edge) and typing in LOCALHOST.
   a. Remember… the software interface will always be shown in an internet browser
7. **Once the software is fully installed and you are at the ON PREMISE login screen, select "Request Account" and follow the SAME steps as detailed in the CLOUD instructions above. You must fill our your information to obtain a an ON PREMISE TRIAL ACCOUNT or to set up a NEW ON PRMISE ACCOUNT using a License Key you already have acquired.**
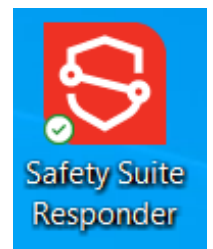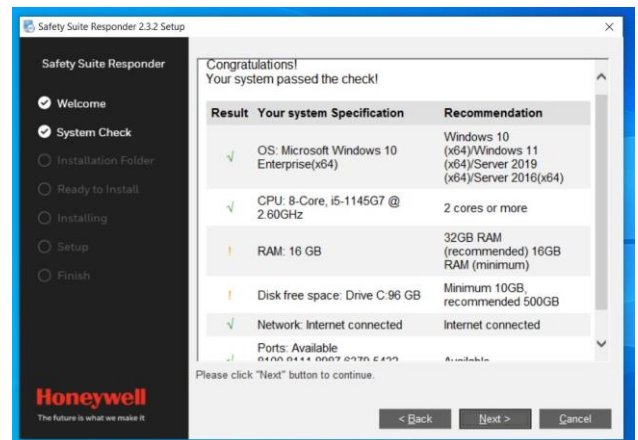
4. Understanding the Safety Suite Utility & Gateway Software

Regardless of the software version you have chosen, all the data passed to the software from connections to external devices MUST CONNECT through the gateway software. This includes real time reading devices (Ex. Wirelessly connected AreaRAE, RigRat, MultiRAE, etc.) or gathering historical data stored on a device (Ex. IR connected gas detector or networked docking station)

In every Safety Suite version, the gateway utility will always run in the background on any PC that connects directly (hardwired) or through a network (ethernet) to push data from the device to the software. Here is how it works for each type of software:

When using this Software Version	…the Gateway Utility	…And Is Shown
Safety Suite "Industrial Plant" Cloud	Manually installed & named through the software after the initial SITE is created	Through the SITE tab
Safety Suite "Industrial Plant" On Premise	Manually installed & named through the software after the initial SITE is created	Through the SITE tab
Safety Suite Responder Cloud	Manually installed & named through the software from the GATEWAY tab	Through the GATEWAY tab
Safety Suite Responder On Premise	Automatically installs a "Responder" gateway when the software is first installed	Through the GATEWAY tab

The gateway utilities look different in CLOUD vs. ON PREMISE software

5. <u>Your FIRST Login</u>

Logging in is different for ON PREMISE or CLOUD software.

A. <u>For Logging in to All ON PREMISE software</u>

1. Open the software on your PC either from the Safety Suite Icon on your desktop OR by opening an internet browser (Google Chrome or Microsoft Edge) and typing in LOCALHOST.
2. Your ON PREMISE software is accessible/viewable ONLY through an internet browser interface. The software will display in one of three forms in the browser… they all lead to the same place… your locally installed Safety Suite software
   a. LOCALHOST (and when you hit return… http://localhost/#/....)
   b. 127.0.0.1 (and when you hit return… http://127.0.0.1/#/...) shows in the Gateway Utility when software is running but PC is disconnected from internet access (running in offline mode)
   c. Your local IP address of your PC based on your internet connection… Example address format… 192.168.159.115 NOTE: this local address will show up in your Gateway Utility when software is running and internet access is connected.
3. LOGIN to the software with your Username (email address) and Password previously set up
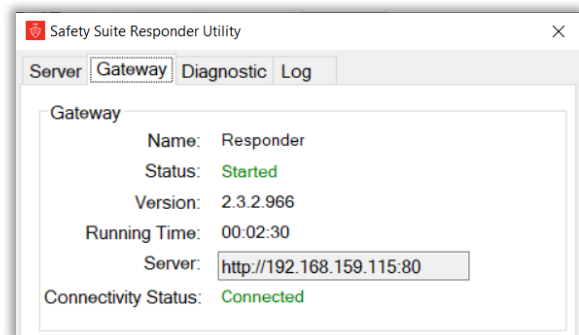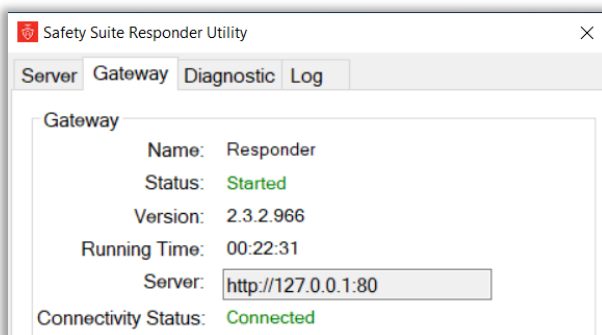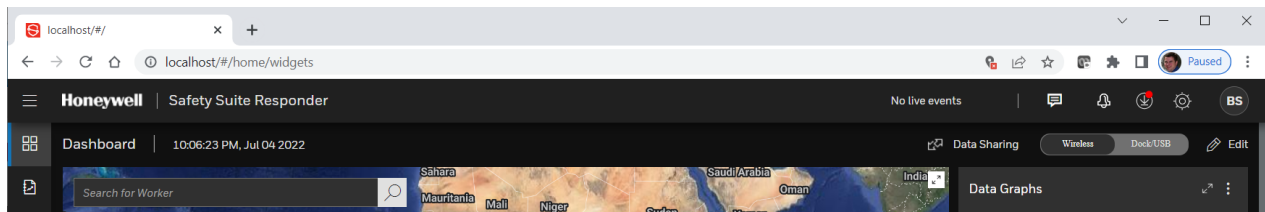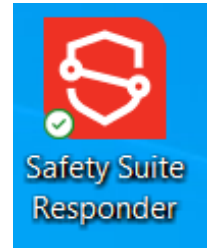
B. <u>For Logging in to All CLOUD software</u>

1. Go to https://ss.honeywell.com in your Google Chrome or Microsoft Edge browser
2. LOGIN to the software with your Username (email address) and Password previously set up
3. Remember… You must have internet access 100% of the time to access CLOUD software.

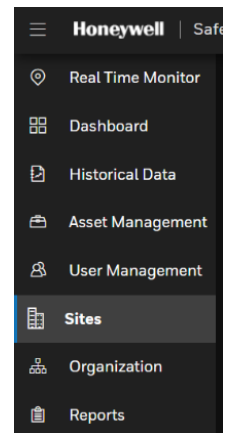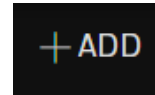# 6. After Logging In… Set Up Your Account

As the first user on the account, you are set up as the Customer Administrator by default and have access to ALL functionality within the software including the ability to set up your account.

Now that you are logged in to your account, there are several steps to get your account up and running. These steps vary based on your selected software version, so follow closely below based on your software selection.

A. Using Safety Suite Industrial Plant ON PREMISE or CLOUD

1. **First set up a SITE**. This is a mandatory step.
   a. Click on Sites
   b. Click + ADD in the upper right corner
   c. Fill out all data under "Add a site" that has a RED DOT next to it including a real street address.
   d. Site is not complete until you create a perimeter around your initial site location.
      o Click on "Draw Perimeter" at the bottom right of the map on the site setup screen.
      o Click and drag to see the perimeter line (NOTE: The line is thin and can be hard to see… toggle the view in the lower left hand corner to change from aerial to map view.)
   o The perimeter can be as large or small as you want and can be edited at any time in the future.

2. **Assign yourself to the SITE** in the User Management section
   a. Go to User Management and select yourself under the Site(s) section, select the drop down and add the new site you just created. Click SAVE to confirm the selection. (Ex… Johnny Wishbone is assigned to HON Houston CEC site).
   b. NOTE: If you are the first Customer Administrator, you will automatically be assigned to all future sites created in the software.
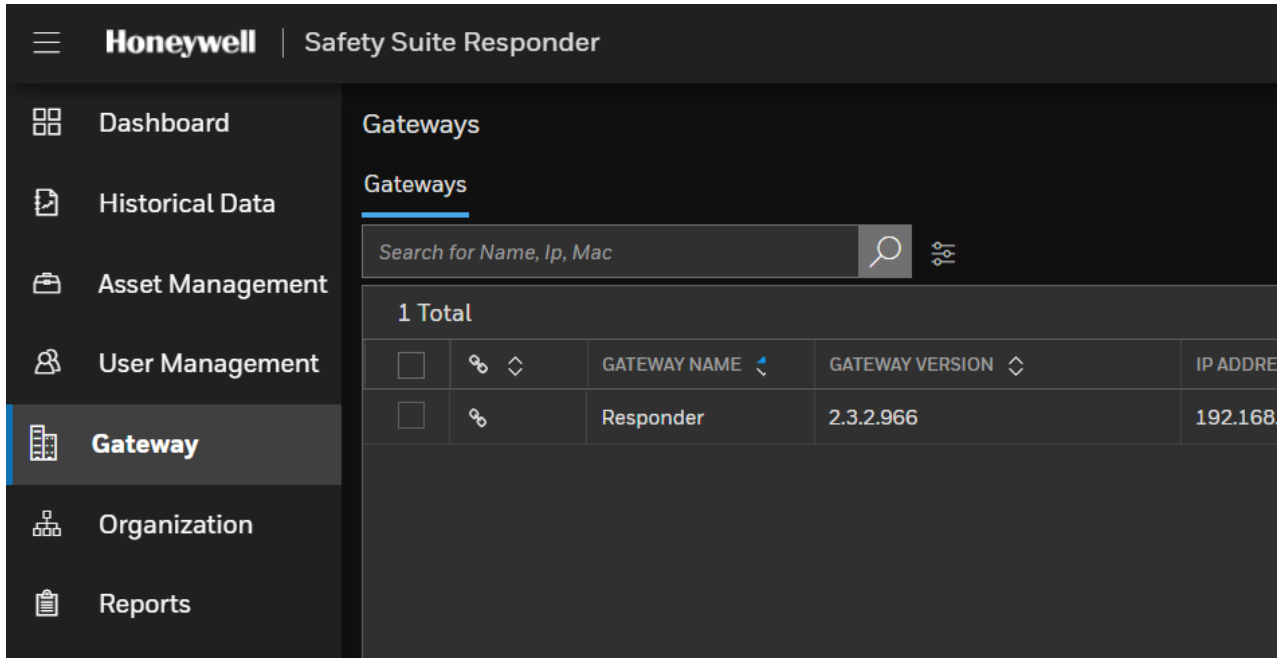

3. **Download and Install the Gateway software** on your SITE
   a. Go to Sites and click on the Site you just created
   b. Go to the "+ ADD" drop down in the upper right-hand corner and select Gateway
   c. The Gateway can be added by clicking Download Installer.
   d. Once downloaded, right click on the ZIP file and Extract All then right click on the extracted file and Run as Administrator. NOTE: Administrative Rights to your PC are required for software installations.
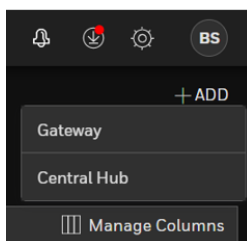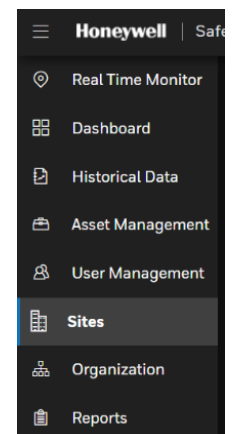
C. Using Safety Suite Responder ON PREMISE

1. There is NO need to set up a SITE in Safety Suite Responder as there are no SITEs in the Responder software
2. There is no need to set up a Gateway either. A default "Responder" gateway is automatically installed with the software installation.
3. Your gateway is ready to connect device immediately after your initial login.
4. NOTE: Do not change the name or delete this gateway going forward

D. Using Safety Suite Responder CLOUD

1. There is NO need to set up a SITE in Safety Suite Responder as there are no SITEs in the Responder software
2. **Download and Install the Gateway software** on your
   a. Go to Gateway tab from the left hand icons on the main screen
   b. Go to the "+ ADD" drop down in the upper right-hand corner and select Gateway
   c. The Gateway can be added by clicking Download Installer.
   d. Once downloaded, right click on the ZIP file and Extract All then right click on the extracted file and Run as Administrator.
   e. NOTE: Administrative Rights to your PC are required for software installations.

7. Connecting Devices to Safety Suite

Now that your gateway software is in place and your Gateway Utility is operational, you can begin connecting devices to Safety Suite.

Illustrated below is the process utilized by a majority of HGAS customers for establishing real time connections between wirelessly connected gas detection devices and Safety Suite via the PTM protocol (Point-To-Multipoint) in the software. Additional connections are supported through the gateway software and instructions can be found under separate documentation.

A. Setup and deploy devices
   a. Make sure all your devices are turned on and properly configured.
   b. NOTE: Former ProRAE Guardian users… the physical deployment of your gas detection equipment and all wireless configurations and settings are identical when using Safety Suite software.
   c. Ensure your RAE Link 3 is in HOST mode, connected through the RS232 to USB adapter, and plugged into the PC. Make sure you have the driver installed for your adapter cable.
   d. Verify the communications port (COM PORT) that your adapter is connected through by going into Windows Device Manager on your PC.
B. Connect devices in Safety Suite
   a. Login to the software on your computer.
   b. Navigate to your Gateway in the software either through the SITE icon (Safety Suite Industrial Plant) or through the GATEWAY icon (Safety Suite Responder)
   c. Click on your named gateway to open your connection options.
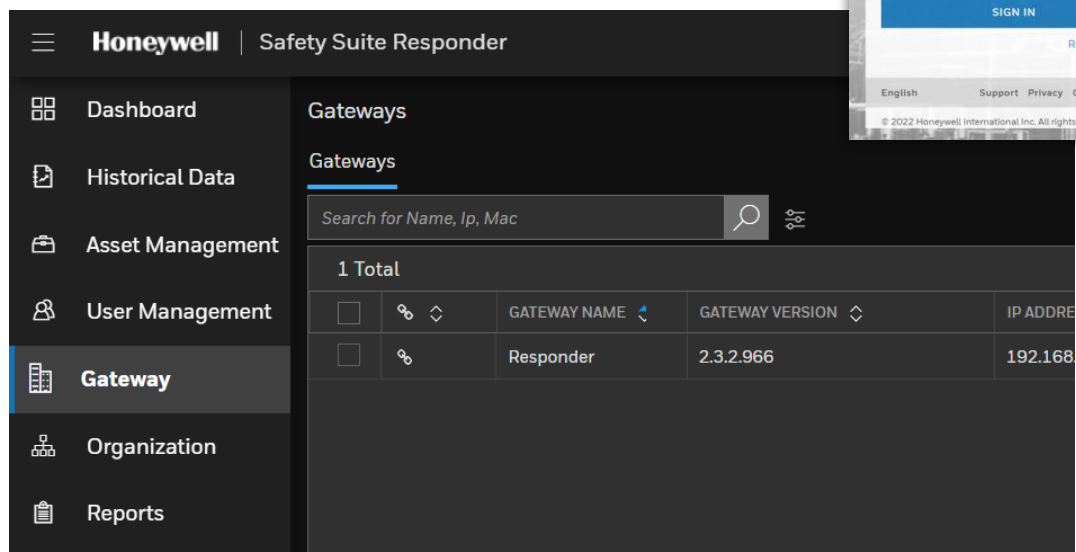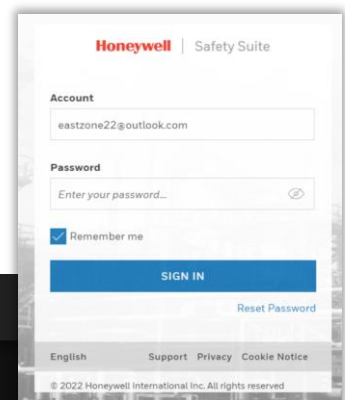
d. Once in your gateway… Click on + PTM Protocol and PTM1 will open. Add PTM connections as needed for separate host connections. NOTE: The gateway will support up to four (4) PTM hosts connected simultaneously.

e. Select your verified Serial Port (Comm Port) from the drop down menu.

f. Skip over Baud Rate & Interval as they are preconfigured to work with your connections.

g. Click on VIEW UNIT IDS and select any/all Unit IDs you have deployed in the field. By default, 1 to 4 are preselected. If you are unsure, which Unit IDs you have deployed, check the All box to select all 64 Unit IDs. This step adds additional time to your connection, so you are always better off selecting just the Unit IDs you know you have deployed.


h. Click on START… this action initiates the connection between the devices, gateway, and software

i. Run an RF Link test to verify your wirelessly networked devices are connecting through your adapter, through the gateway, and rendering data in the Safety Suite software.

j. When you have verified everything is connecting in RF Link test, Click the Dashboard Icon on the top left hand side of your screen

k. Congratulations… with everything connected you can now view your real time device data and locations on the map.
    i. Devices providing real time data in the Dashboard but not showing under the map is because the device is not pushing GPS location data.
    ii. Click on icon shown right to reveal devices that can be placed manually on your map.

l. To change your Dashboard view, go to Preferences under the icon with your login initials in the upper right-hand corner. (NOTE: Industrial Plant version shows this screen change option on the main Dashboard screen)
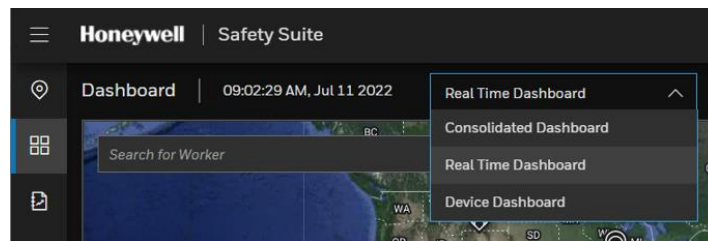
m. The Real Time Dashboard view is shown here below.
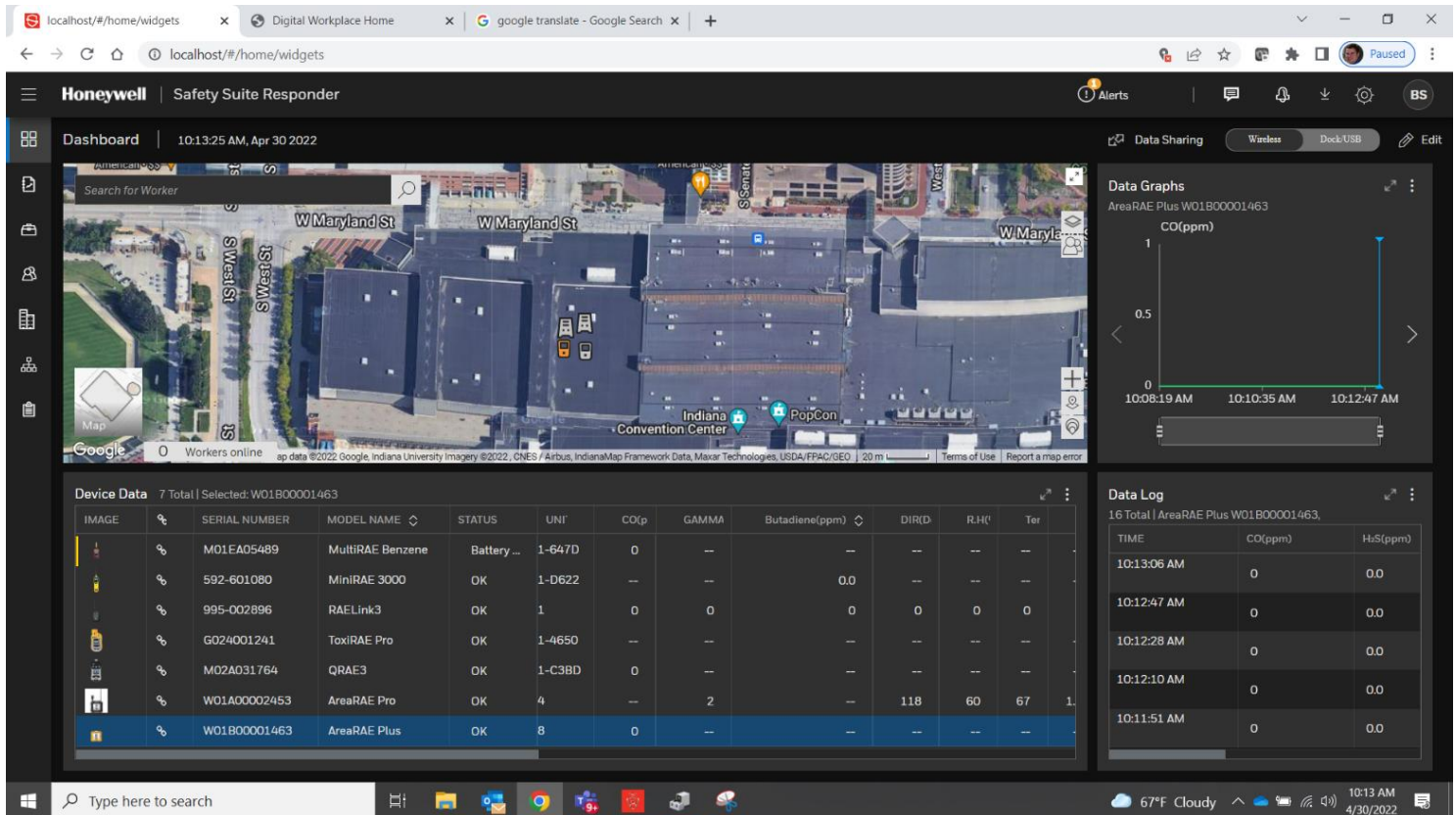
Read on to understand how licensing works and how a device's status affects the ability to access data in the software.

8. <u>Managing Licenses and Device Status</u>

A. Accessing Licenses in the Organization page

1. The data in the Organization page was created by the initial Customer Administrator who has access to all functionality within the software.
2. All License Keys can be loaded from and maintained from the Organization window in Safety Suite via the + ADD icon in the upper right-hand corner of the page.
3. Premium Licenses include both ACTIVE RT (real time) and ACTIVE DM (device management) licenses when sold. Deluxe licenses only include ACTIVE DM licenses in the software.
4. An example… Customer purchases 20 Premium SS licenses and 40 Deluxe. The customer will see in the Organization page 20 available ACTIVE RT licenses and (20 + 40) 60 ACTIVE DM licenses in their total available licenses.
5. License keys, once loaded to the software, are always accessible showing all license details including account status, type of software deployment, available real time (RT) and device management (DM) licenses, full license keys, sold date, activated date, expiration date, type of license, etc.

B. Managing License STATUS

Only devices with sensors (can generate data) are required to have an ACTIVE device license to be visible/accessible in the software. Managing the STATUS of device licenses is essential and can be managed from the Asset Management page. Below are important points for consideration.

1. A device's CONNECTION to the software has NO bearing on whether a device is taking up an ACTIVE license in the software.
2. All paid licenses are NOT directly tied to serial numbers EXCEPT for when their STATUS is ACTIVE for an individual device in the software.

3. A real time connected device or historical device data can ONLY be viewed in the software if a device's STATUS in the software is either ACTIVE RT (real time) or ACTIVE DM (device management).

4. When a device attempts a connection to the software…Safety Suite first checks the availability of unassigned ACTIVE licenses and then checks if the device serial number has been previously recognized in the software.

5. If device is connecting for the first time and licenses are available, the device is made ACTIVE in the software automatically based on how it is connecting… i.e., an AreaRAE connecting wirelessly will be assigned an ACTIVE RT license.

6. If a device is being recognized in the software through historical data download (like an AutoRAE 2 or IntelliDoX) and licenses are available, an ACTIVE DM assignment is provided.

7. Any time a connection of a device is attempted (either in RT or via DM) and licenses ARE NOT AVAILABLE… the device will be recognized but a STATUS of LOCKED will be applied to the device in the software. The only way to access the real time view or historical data of a LOCKED device is to free up assigned licenses by changing the status of other ACTIVE devices to INACTIVE to make room for them in the software. When licenses are "freed up", then LOCKED devices can be changed to ACTIVE RT or DM in the software to make their data accessible.

8. **To change the STATUS of a device in the software**

    a. Put a check mark by the device in the Asset Management page

    b. Select "Set Status" feature to quickly manage total quantity of ACTIVE devices to match with available device licenses

    c. Select the STATUS from the options within the drop down.

    d. Once devices are recognized in the software, they CANNOT be removed. Only the STATUS can be changed in the software. If you want to removed devices from consistent viewing change the STATUS to ARCHIVED.
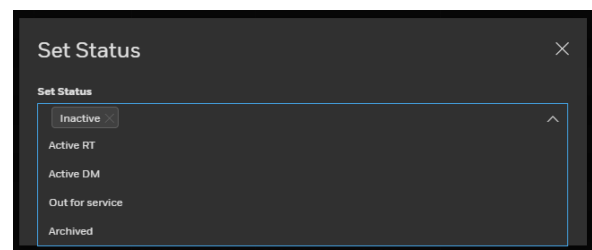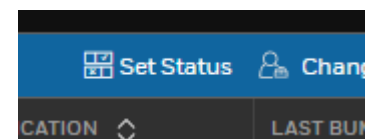
    e. A device's STATUS can be changed at ANY time in the software to effectively manage your licenses. NOTE: You must be connected to the internet to change the STATUS of any license assignment within the software.