



# ems.inventory

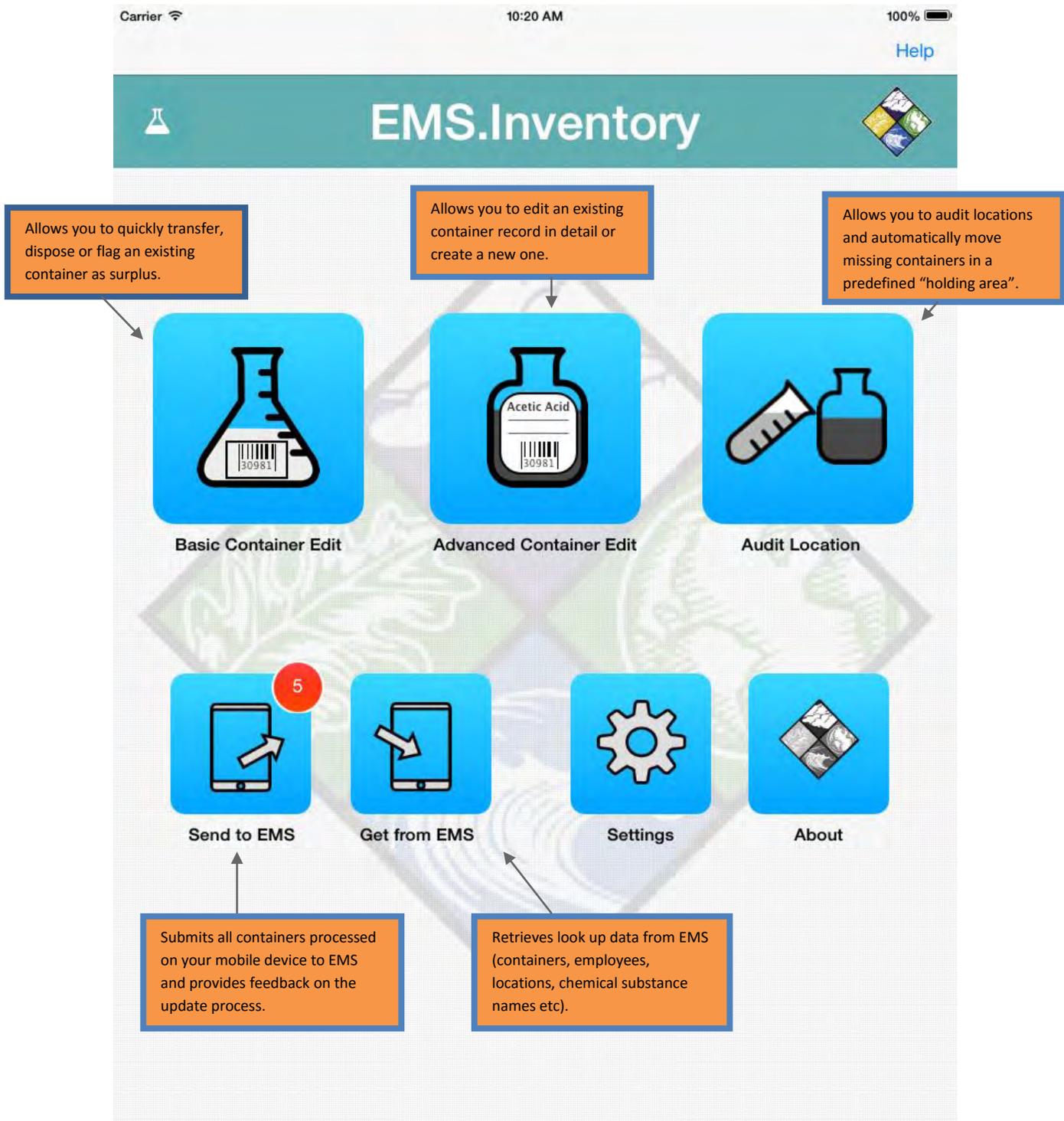


*EMS.Inventory is a Chemical Safety Software app for iPhone and iPad devices, that is being used to track a chemical inventory from purchase through disposal. Used along Chemical Safety's EMS web application, it reduces the time required to keep accurate information, simplifies chemical purchases, distribution, sharing and disposal.*



## A brief overview

When you login to EMS. Inventory using your EMS user account, you are presented with the following screen:



## Workflow

EMS. Inventory provides three data screens, used to cover specific needs. The Basic Container Edit screen is used for quick container operations on existing containers, the Advanced Container Edit screen is used to edit existing containers in detail or create new ones and the Audit Location screen is used to investigate missing and/or misplaced containers.

All data entered using these screens is stored on the mobile device and is submitted to the EMS server using the “Send to EMS” option. All data entered are validated against the EMS business rules when submitted to the server and the user is informed if the process fails for some reason.

Data entry (where applicable) can be done by typing, selecting data from a lookup list or by scanning. Scanning can be done either using the iPhone/iPad camera or using an external Bluetooth barcode scanner.

### Basic Container Edit



The screenshot shows the 'Basic container edit' screen on a mobile device. At the top, the status bar displays 'Carrier', '10:19 AM', and '100%' battery. The screen has a 'Back' button on the left and a 'Help' button on the right. The main content area contains five rows of input fields: 'Employee', 'Location', 'Container', 'Surplus', and 'Dispose'. Each of the first three rows has a text input field, a barcode icon, and a magnifying glass icon. The 'Surplus' and 'Dispose' rows have radio button icons. At the bottom, there are two buttons: a red 'Clear' button on the left and a blue 'Save' button on the right.

In the Basic Container Edit screen, the user can edit an **existing** container in the following ways:

1. Assign the container to an employee
2. Transfer the container to a location
3. Flag the container as surplus
4. Dispose of the container

## Advanced Container Edit

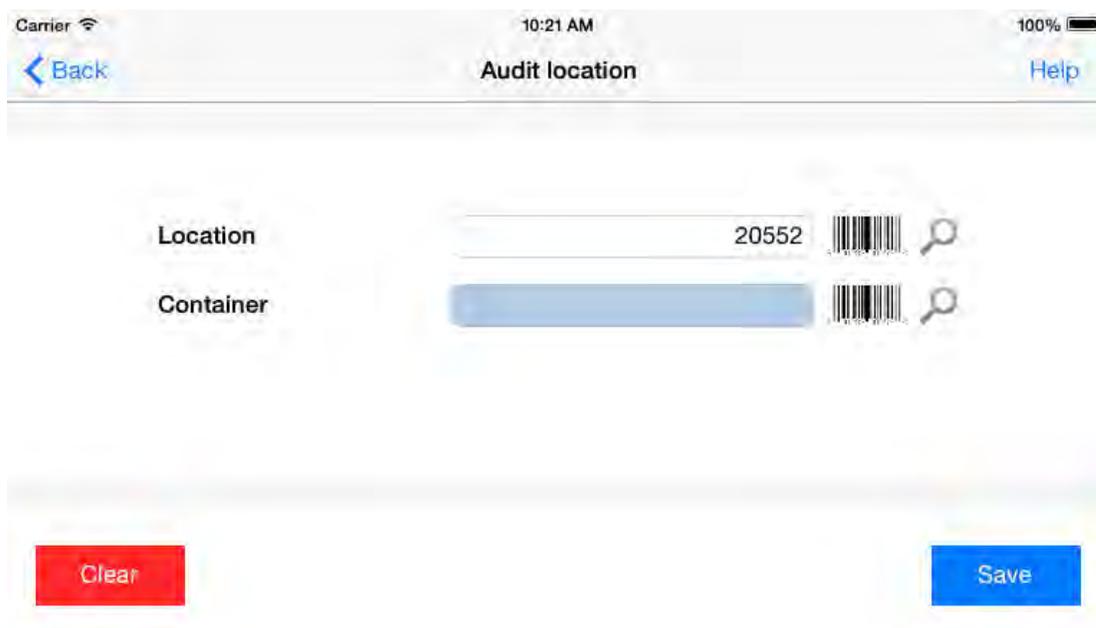
The screenshot shows the 'Advanced container edit' screen on a mobile device. The status bar at the top indicates 'Carrier', '10:20 AM', and '100%' battery. The navigation bar includes a 'Back' button on the left and a 'Help' button on the right. The main content area contains several input fields and controls:

- Barcode:** 24938
- Location:** 20520
- Employee:** 2014554816
- New barcode:** (empty field)
- B.O.L.:** 24938
- Quantity:** 681.36
- Unit:** GALLONS
- Surplus:** A green toggle switch is turned on.
- Physical state:** A segmented control with three options: 'Solid', 'Liquid' (selected), and 'Gas'.
- Chemical name:** BENZENE
- Vendor:** GENERIC

At the bottom of the screen, there are two buttons: a red 'Clear' button on the left and a blue 'Save' button on the right.

In the Advanced Container Edit screen, the user can edit the details of an existing container or create a new one. A new barcode can also be assigned to the container; in this case, the new barcode value can be retrieved from the EMS server, to avoid duplicate values.

## Audit Location



The screenshot shows a mobile application interface for auditing a location. At the top, the status bar displays "Carrier", "10:21 AM", and "100%". Below the status bar is a navigation bar with a blue "Back" button on the left, the title "Audit location" in the center, and a blue "Help" button on the right. The main content area contains two input fields: "Location" with the value "20552" and "Container" with a blue highlight. Each input field has a barcode icon and a magnifying glass icon to its right. At the bottom of the screen, there are two buttons: a red "Clear" button on the left and a blue "Save" button on the right.

The Audit Location screen is used to audit a location for the existence of containers; all containers known to be in a location but not scanned, will be moved in a predefined "holding area", when data is submitted back to EMS.

## Send to EMS

Carrier 10:21 AM 100%

< Back Send to EMS Help

Containers saved on your device: 5

Barcode	Location	Employee	Chemical	Quantity	Unit	Transfer result
24938	20520	2014554816	BENZENE	681.36	GALLO...	Pending...
CR-625-P	LAB-III-08	ORC-893-23		0		Pending...
FD-O-83	LAB-III-08	ORC-893-23		0		Pending...
PO-REF	LAB-III-08	ORC-893-23		0		Pending...
UR871928	LAB-III-08	BI-84250		0		Pending...

Send to server Edit upload list

The “Send to EMS” screen is used to review all data stored on the device and submit them to the EMS Server. The result of each data transfer operation is displayed. Container data successfully transferred will be removed from the mobile device and the user can opt to edit or delete container data that were rejected from the EMS server.

## Get from EMS

Carrier 10:22 AM 100%

< Back Get from EMS Help

Facility to retrieve data for:

Data to retrieve: all

Container #	<input checked="" type="checkbox"/>
Location #	<input checked="" type="checkbox"/>
Employee #	<input checked="" type="checkbox"/>
Bill of Lading	<input checked="" type="checkbox"/>
Chemical names	<input checked="" type="checkbox"/>
Part number	<input checked="" type="checkbox"/>
Classification	<input type="checkbox"/>
Vendors	<input type="checkbox"/>
Units	<input type="checkbox"/>

Submit

To facilitate data entry, EMS.Inventory provides the ability to select data from pickup lists. The lists can be populated either dynamically from the EMS Server, or they can be preloaded on the mobile device; the latter is useful when data connectivity is unreliable (poor 3G/WiFi coverage) or undesired (to avoid data costs).

The “Get from EMS” screen is used to preload data from EMS. It allows the user to select specific data sets and filter them on a specific facility (e.g. “fetch me containers, locations, employees and chemical names found on Facility A”) to cover his/her requirements.

## Settings

The screenshot displays the Settings screen of an application. At the top, there is a status bar with 'Carrier', signal strength, '9:32 AM', and '100%' battery. Below the status bar is a 'Back' button. The settings are organized into sections: 'OPERATION MODE' with 'Online mode' (Work with live server lookup data); 'BASIC SCREEN' with 'Basic screen action' (Choose the basic screen clear action) and buttons for 'Consume' and 'Dispose'; 'MISC ACTIONS' with 'Reset settings' (Use this to return to the default app settings) and 'Delete data' (Use this to delete the local data cache), each with a corresponding red button; and 'ACCOUNT INFORMATION' with 'Account holder' (Not applicable), 'Account type' (Demo user) with an 'Upgrade' button, 'Expiration date' (No expiration date defined), and 'Application server' (https://cloud.chemicalsafety.com/ChemSafe/).

This options determines whether the lookup data lists, displayed when tapping on  (in the data entry screens), will be populated by preloaded data (using the "Get from EMS" option), or by data dynamically fetched from

This option determines the default container action presented in the Basic Container edit screen:  
**Consume:** The container's quantity is set to zero  
**Dispose:** In addition to consume, a waste item is generated.

**Reset:** Resets the app's connectivity settings and presents the login screen.  
**Delete:** Deletes all local data, i.e. data entered by the user and lookup data downloaded from EMS.

The "account information" section displays information about the currently logged-in user. The "Upgrade" button can be presented next to the "Account type" row, depending on the user's subscription plan.

## Logging-in and troubleshooting

Carrier 9:25 AM 100%

# ems.inventory



user name / email

password

Hide corporate settings Login

e.g. emsdemo

e.g. emsdemo.chemicalsafety.com/weblogin

[I forgot my password](#) [Enter as demo user](#)

Don't have an account yet?

Register



?

EMS. Inventory supports many different connection scenarios and the gateway to these is the Log-in screen.

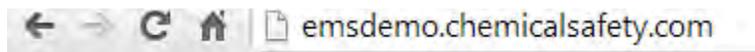
The log-in screen by default appears with two fields, allowing the user to enter his/her user name & password, in order to Log-in. Some connection scenarios require more fields, which appear using the “Corporate user” button.

### Common scenarios

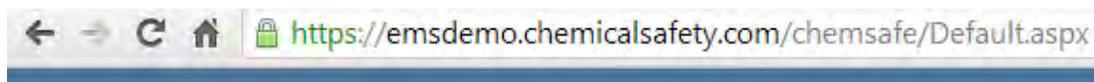
User type	How to tell	Settings to use
Individual user	I connect to <i>cloud.chemicalsafety.com</i> to use EMS	Fill in the user name/email and password fields, as you do in your EMS web app.
Corporate user (hosted by Chemical Safety)	I connect to <i>&lt;my_server&gt;.chemicalsafety.com</i> (where <i>&lt;my_server&gt;</i> is the installation name provided to my company) to use EMS	Bring up the corporate user settings and enter: <ol style="list-style-type: none"> <li>1. Your user name</li> <li>2. Your password</li> <li>3. Your installation name (the <i>&lt;my_server&gt;</i> part, see below)</li> <li>4. Your complete EMS application URL: <i>&lt;my_server&gt;.chemicalsafety.com/chemsafe</i>. The “chemsafe” part is displayed on your browser’s address bar, when you use the EMS web app.</li> </ol>
Corporate user (custom installation)	I connect to a URL provided to me by me network administrator.	You should contact your network administrator for specific instructions, but, usually, you should enter your user name, your password, your installation name and the full URL of your EMS web app installations, including the app suffix. See below about this.

### Installation name and the app suffix

When you connect to the EMS web app, you will see in your browser’s address bar the full address of the app, for example, when you connect to the EMS public demo installation, entering:



Your browser will connect and then display the full URL, as seen below:



In this example, “emsdemo” is the installation name and “chemsafe” is the app suffix. So, to connect to this installation, you should enter:

- a. <User name>
- b. <Password>
- c. emsdemo
- d. emsdemo.chemicalsafety.com/chemsafe

### Other things of concern

If you don’t set the “http” or “https” part of the application URL, EMS.Inventory assumes by default that it is a secure address starting by “https”.

