



CENTERScape
by RF^{CODE}

Mobile
User Manual

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RF Code, Inc.
9229 Waterford Centre Blvd.
Building 500
Austin, TX 78758
www.rfcode.com

CenterScape Mobile

CenterScape™ by RF Code contains a wealth of data that enables productivity and saves money. CenterScape Mobile puts that information at your fingertips 24x7. Easily access CenterScape from a tablet or smartphone from any location securely. CenterScape Mobile streamlines the asset inventory auditing process and enables more efficient asset tag deployment for new assets. It also enables more intelligent decisions about physical threats as sensor data can be viewed anywhere in real-time.

Features

Platform Coverage

CenterScape Mobile runs on both iOS devices and Android devices. The application automatically determines if it is running on a smartphone or a tablet and adjusts accordingly to optimize the user experience. CenterScape Mobile can be obtained from the [Apple App Store](#) and the [Google Play Store](#) at no cost.

Security

CenterScape Mobile was designed with security in mind. All connections require authentication to the CenterScape server and can be set up to require HTTPS. Furthermore, the App is VPN-friendly mak-

ing it compatible with strong security restrictions. The Mobile App utilizes the core CenterScape role-based authentication system.

Assets and Sensors

The core functionality of CenterScape Mobile is to enable easy access to find, browse, view, add, edit and delete assets and sensors. The App provides an intuitive data browser that enables navigation by location, asset type, or sensor type; and a simple yet powerful global search feature to quickly access any location, asset, or sensor defined in the system.

The App also provides sophisticated filtering similar to the filtering capability in the standard web-based interface for CenterScape. The filter control enables selection by type, location, and attribute, making it easy to find the exceptions that require action. Once a specific item is found, the App provides a detailed view of the item with hyperlinks to other pertinent information such as location data and alert information. If authenticated with the appropriate user information, CenterScape Mobile allows adding, editing and deleting of assets and sensors. CenterScape Mobile takes full advantage of device hardware features such as the built-in camera. The App can utilize the camera as a barcode scanner to quickly scan data to asset records, or to take a photo of an asset and associate that photo to the asset record.

Alerts and Alarms

CenterScape Mobile enables fast access to alerts from CenterScape. The Alert Viewer displays the most recent alerts at the top of a multi-line list. The default view lists high-level details about the alert such as date and time, asset name, alert name, and alert severity. Alerts can also be searched and viewed by category.

The full details of an alert are easily accessible as well. The alert details view provides a hyperlink back to the asset that has triggered the alert. If the alert requires acknowledgment, the App displays the **Acknowledge** button as well.

Last Known Position

Interruptions occur when working in the field or on location and multitasking is a must. CenterScape Mobile always returns you to the last location in the App before the interruption occurred. Furthermore, a convenient **Back** button (just like on a web browser) helps to save time and increase efficiency.

CenterScape Mobile Specifications & Minimum Requirements

MINIMUM REQUIREMENTS

CenterScape Mobile **must** be used with CenterScape version 1.0 or higher.

OPERATING SYSTEM SUPPORT

➤ iOS Device Support:

- iOS version: 5.1 or higher
- iPad support: iPad 1 and higher
- iPhone support: iPhone 4 and higher

➤ Android Device Support:

- Android version: 4.0 and higher
- Device Requirements: 640x480 screen size or higher

Installing CenterScape Mobile

The required steps for installing this app are no different from installing any other smartphone or tablet app. There is no charge for the app. An Apple ID or Google ID is required.

To Install Asset Manager Mobile on Apple iOS Devices:

1. Tap the **App Store** button.
2. Tap the **Search** button from the bottom portion of the screen.
3. Type the app's name, **CenterScape Mobile**.
4. Find the CenterScape Mobile app.
5. Tap the **CenterScape Mobile app**. Read through the app's description, if you like.
6. Tap the **+GET** button and **INSTALL**.
7. Type your Apple ID's password.
8. Wait for the app to Load.
9. Tap **+OPEN**.

To Install Asset Manager Mobile on Android Devices:

1. Tap the **Google Play Store** button.
2. Tap the **Search** button from the top right corner of the screen.
3. Type the app's name, **CenterScape Mobile**.
4. Find the CenterScape Mobile app.
5. Tap the **CenterScape Mobile app**. Read through the app's description, if you like.

6. Tap the **INSTALL** button.
7. Wait for the app to Load and Install.

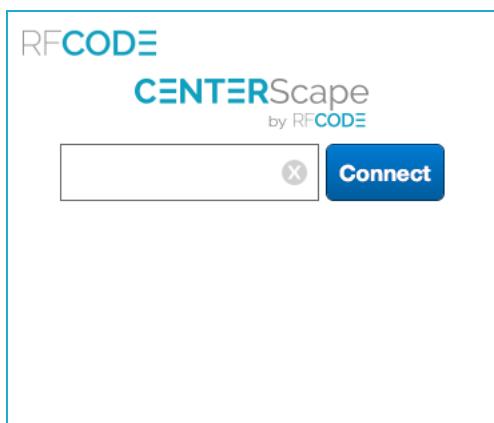
Getting Started with CenterScape Mobile

The CenterScape Mobile software strengthens the level at which data center managers can monitor and control their facilities. With its live, real-time data and interactive features, the platform allows greater visibility and interaction from wireless devices at any time of the day or night.

Running on both iOS and Android devices, the core functionality of CenterScape Mobile is to enable easy access to find, browse, view, add, edit and delete assets and sensors. The app provides a simple yet powerful global search feature to quickly access any location, asset or sensor defined in the system. Alert conditions (such as security violations or elevated temperature or humidity readings) are also sent directly to CenterScape Mobile, enabling immediate, proactive responses to critical issues.

Configuring and Using CenterScape Mobile

After you start the application, you will see a Connect to Server screen:



The Server Address is the address where your CenterScape resides so that the CenterScapeMobile application can connect to it.

To configure the server address:

Tap the Server address field and input the server address. The CenterScape Mobile application will automatically append “:6580” to the end of your address, by default, unless you specify a different port number. In most cases, your CenterScape will be located on port 6580.

Example # 1: Inputting the Server Address of “cs.yourcompany.com” would automatically append the “:6580” so that it would appear as: “cs . yourcompany . com : 6580” in the Server address field.

Example # 2: Inputting the Server Address of “cs.yourcompany.com:4444” would not append anything since you specified a port number, so that it would appear as: “cs . yourcompany . com : 4444” in the Server address field.

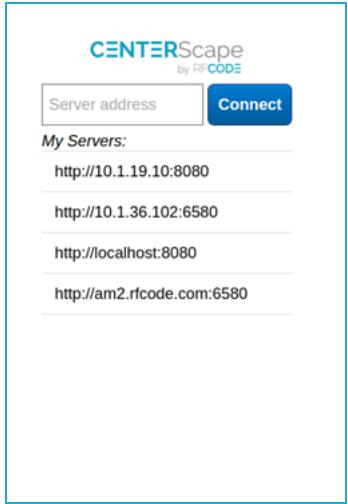
A server connection error message will look similar to the screenshot below:



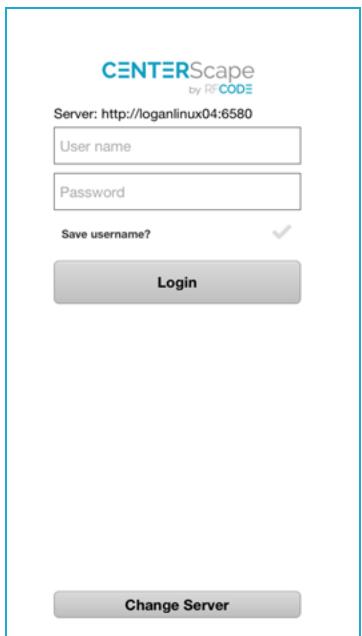
You could receive the above error for several reasons. The most common would be:

- Incorrect port number of your CenterScape.
- Incorrect address of your CenterScape.
- Your CenterScape is not version 2.9 or higher.
- Your smartphone or tablet does not have Internet connectivity.

Please note that on subsequent connections after a successful connection using CenterScape Mobile, the CenterScape Mobile application will store and list those successful connections. In the case of multiple servers where you have made a successful connection, they will be listed (as in the screenshot below) so that you may tap on the server to select the server that you want to connect to.



After you successfully connect to your CenterScape server, you will be presented with the following login screen:

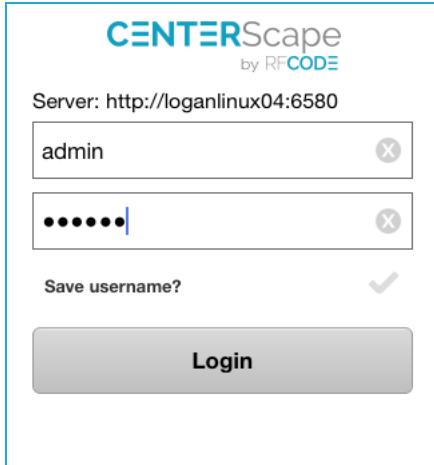


Here you will log in with the normal login credentials to CenterScape. Note that the address of the server you are accessing now appears above the fields for **User name** and **Password**.

The **Change Server** button gives you the ability to go back to the **Server Address** screen (the previous screen) to change which CenterScape server you are accessing.

If you have a problem logging in using certain credentials, you must log in to CenterScape itself to reset or modify any particular logins.

When you type in the credentials, you can clear them by clicking on the  that appears in the right part of the text field, as shown in the screenshot below:



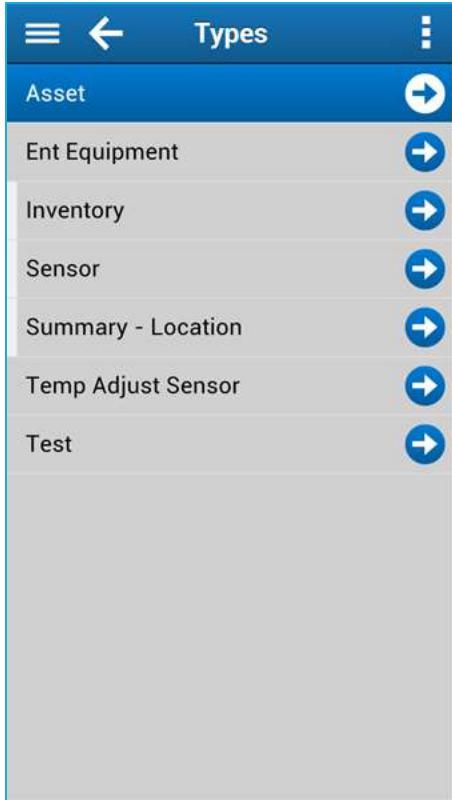
CenterScape Mobile Console Overview

Once you have successfully logged into CenterScape Mobile, on the tablet version of CenterScape Mobile you will see a screen similar to the one below:

Assets by Type	
Asset Types	Asset Types
Inventory	Blade Chassis 00029
Sensor	Blade Chassis 00030
Summary - Location	Blade Chassis 00031
	Blade Server 00032
	Blade Server 00033
	Blade Server 00034
	Datahall 1200
	Datahall 1500
	Example Humidity 4-20 mA
	HOU.01.01.1000.01.001
	HOU.01.01.1000.01.002
	HOU.01.01.1000.01.003
	HOU.01.01.1000.01.004
	HOU.01.01.1000.02.001

This screen shows several navigational tools, filtering tools, a list of Asset Types, a count of assets, and an Attribute display button.

The smartphone version of CenterScape Mobile will show a similar main screen as the one below:

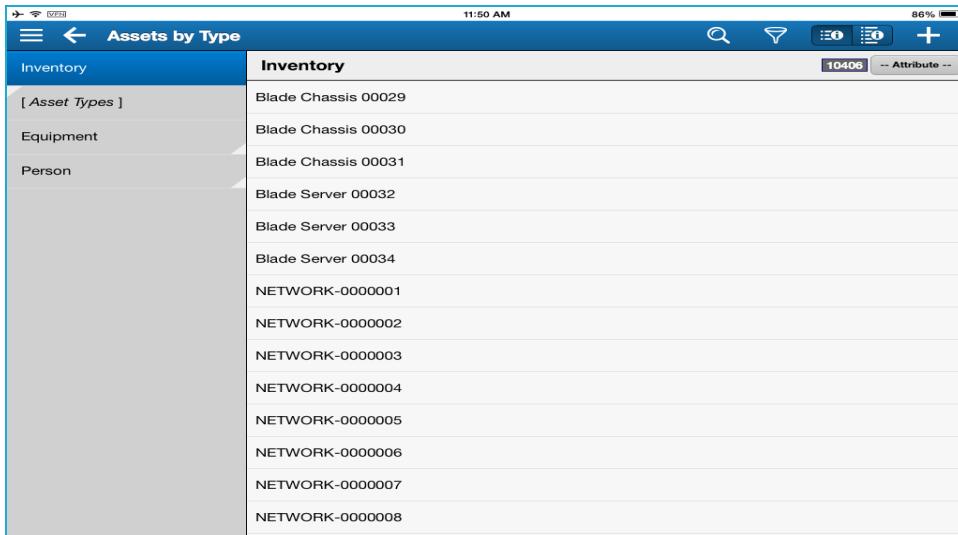


Basic Navigation

For the tablet version of CenterScape Mobile, the screen icons are as follows:

Icon	Button Name	Function
	Back	Returns to previous screen, similar to the Back button in a web browser.
	Search	Opens search dialog. Search for text or numeric string globally or within a selected Attribute: <i>IP Address, Alert Acknowledged By, Alert Message, Alert Threshold Name, Alert Value, or Color.</i>
	Main Menu	Quick-navigation to <i>Browse Assets by Type, Browse Assets by Location, Browse Alerts, Dashboards, Bookmarks, Settings, and Logout.</i>
	Filter	Opens Filter dialog. Filter assets based on Asset Types, Location, Status, Sort, and up to three Attribute Filters.
	Less/More Detail	Toggles between Less Detail (left button)/More Detail (right button) to show how much information is displayed when viewing a particular asset.
	Add New Asset	Opens the New Asset dialog where you can create a new asset manually, using the same procedure as in CenterScape.
	Attribute Filter	Allows attribute selection from a drop-down list to filter the assets on the current page by the attribute you select. The number in the dark gray box to the left of the Attribute Filter button indicates how many assets fit the attribute filter you have chosen and are listed below (32 attributes in the example shown here and in the screenshot below)

Example screenshot of the Basic Navigation screen:



Example # 1: You were at Asset, then tapped Inventory, so now you see Inventory at the top (in the blue box and the white box above the assets window – Both headings signify that you are at Inventory).

When a heading like Asset is shown in brackets like this **[Asset]**, this shows the next higher level up in the asset hierarchy, and is also denoted by the white area clipped off the top left corner of the its gray rectangular box.

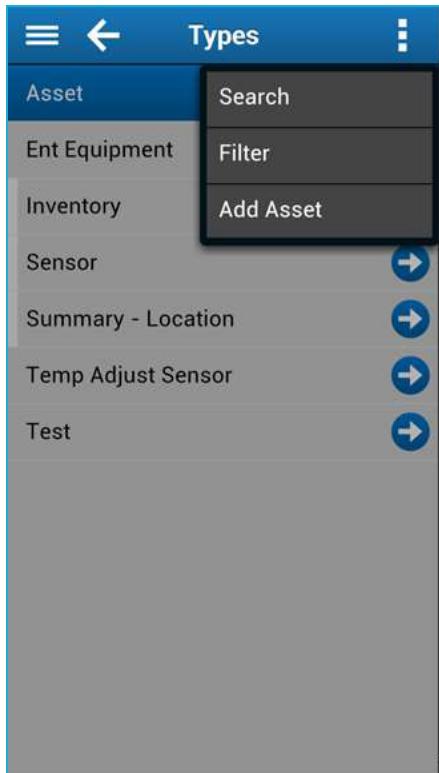
IT Equipment

The box with the bottom-right corner's corner clipped off indicates that there are child folders under that type of category.

The smartphone version of CenterScape Mobile has a simpler navigation screen, with the Search, Filter, and Add New Asset drop-down menu functions accessed by pressing the Context Menu button



(unique to the smartphone version of CenterScape Mobile) as shown in the screenshot below:



Example # 2: Tap Inventory in its box and you will be taken to the next level down in the asset hierarchy.

Tap the right arrow button in any box to go to the assets under that category (**Inventory**, in this example).

The box with a bar on the left side indicates that there are child folders under that type of category.

Keep in mind that the **Context Menu** button will have a different drop-down menu, depending on the screen you are on in the smartphone version of CenterScape Mobile, like the examples below for screens of Assets (left two screenshots), Asset Tag Details (right screenshot),

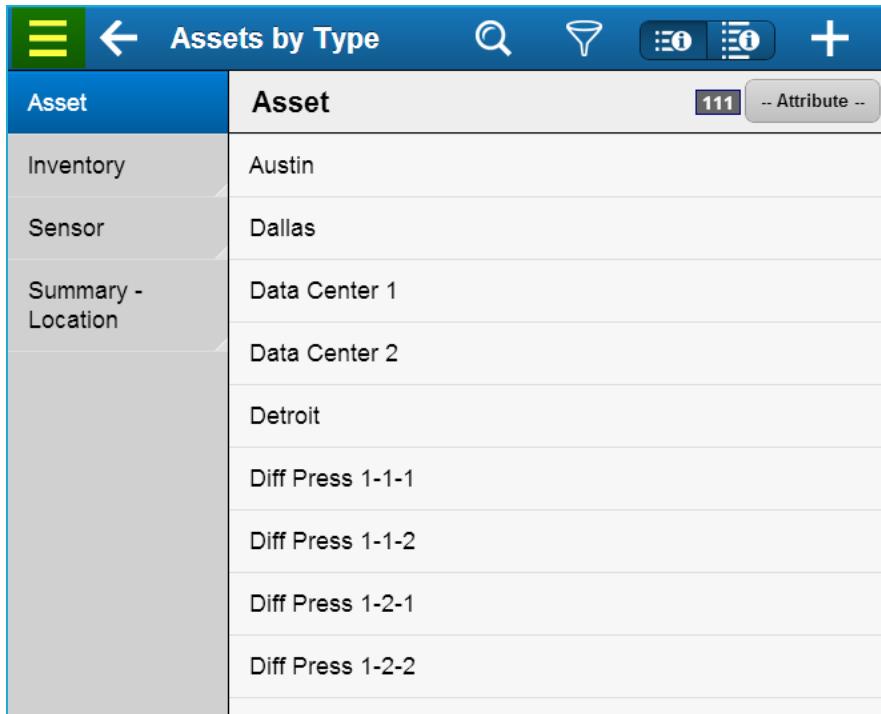
The image displays three side-by-side screenshots of the CenterScape mobile application interface. The left screenshot shows the 'RFC IT Closet' screen with a context menu open over the 'Alerts' section. The middle screenshot shows the 'Jim's Place - P...' screen with a context menu open over the 'Alerts' section. The right screenshot shows the 'Asset Tag - T...' screen with a context menu open over the 'Search' button.

Alerts (left screenshot below), or Alert Information (right screenshot below).

The image displays two screenshots of the CenterScape mobile application interface. The left screenshot shows the 'Alerts' screen with a list of five alerts, each with a 'Search' button. The right screenshot shows the 'Alert - RACK_T...' screen with detailed information about a single alert, including 'Alert Source' (RFC IT Closet - Patch Panel Back Sensor), 'Alert Message' (Low battery has been detected for the tag associated with asset H 01.11.11(2)), 'Alert State' (Open), 'Alert Severity' (Warning), and 'Alert Start Time' (2013-11-12 11:13:35).

Main Menu

The Main Menu button  (highlighted in the screenshot below) allows navigation to the main functions of CenterScape Mobile in both the tablet and smartphone versions:

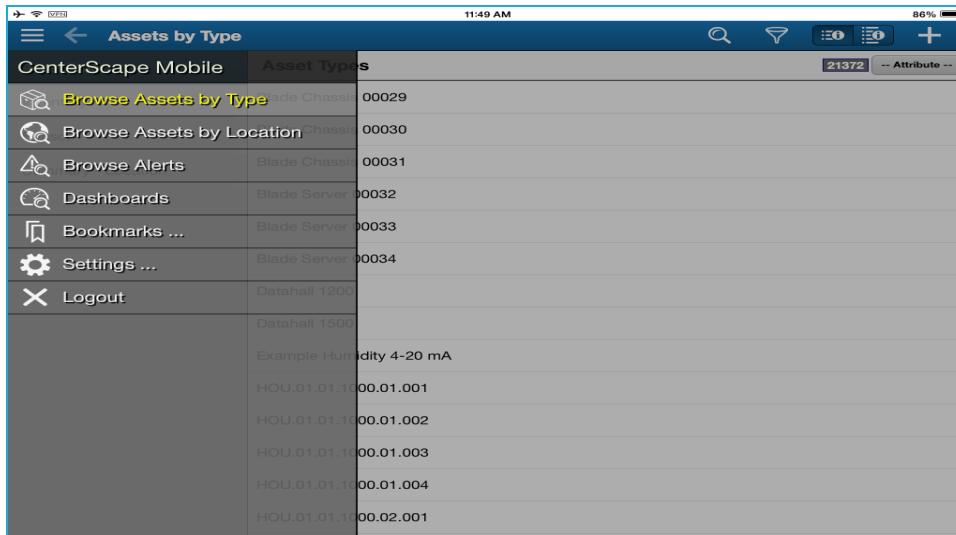


The screenshot shows a mobile application interface for managing assets. At the top, there is a navigation bar with a menu icon, a back arrow, the title "Assets by Type", a search icon, a filter icon, and two other icons. Below the navigation bar is a table with two columns: "Asset" and "Asset". The left column lists asset types, and the right column lists specific asset names. A button labeled "111" and "Attribute" is located at the top right of the table area.

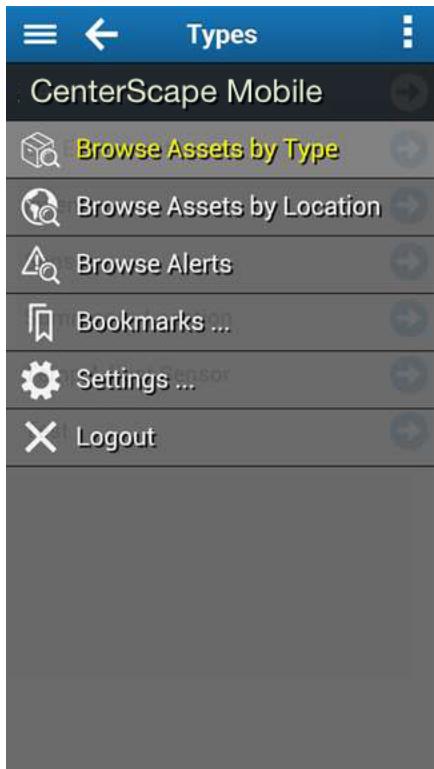
Asset	Asset	111	-- Attribute --
Inventory	Austin		
Sensor	Dallas		
Summary - Location	Data Center 1		
	Data Center 2		
	Detroit		
	Diff Press 1-1-1		
	Diff Press 1-1-2		
	Diff Press 1-2-1		
	Diff Press 1-2-2		

When tapped, **Main Menu** appears with the following choices, shown in the screenshot below:

1. **Browse Assets by Type**
2. **Browse Assets by Location**
3. **Browse Alerts**
4. **Bookmarks**
5. **Settings**
6. **Logout**



The smartphone version of the Main Menu options will look similar to the screenshot below:



This section will describe the **Main Menu** options:

Browse Assets by Type

When tapping this option, you get a screen similar to the one below:

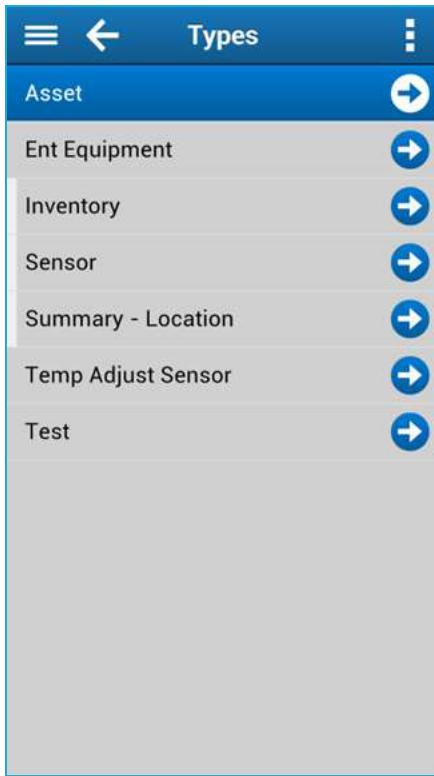
Asset	Asset	111	-- Attribute --
Inventory	Austin		
Sensor	Dallas		
Summary - Location	Data Center 1		
	Data Center 2		
	Detroit		
	Diff Press 1-1-1		
	Diff Press 1-1-2		
	Diff Press 1-2-1		
	Diff Press 1-2-2		
	Diff Press 2-1-1		

When you select **Browse Assets By Type**, you will receive four type choices (in the left-hand column of the above screenshot) to choose from:

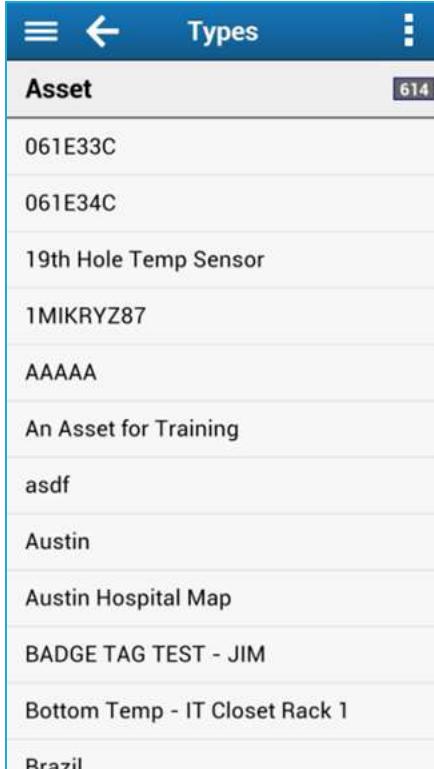
1. Asset
2. Inventory
3. Sensor
4. Summary – Location

Asset is the default and most general type you can choose, and when you choose any of the other three types, you can further filter the types of assets that you want to see because they have additional choices.

The smartphone version of the **Assets By Type** screenshot looks similar to this below:



After choosing **Asset**, you will get a screen that looks similar to this:



For example, selecting **Inventory** will give you additional choices to use to further filter assets:

Equipment

Person

The screenshot shows a mobile application interface titled "Assets by Type". At the top, there is a navigation bar with icons for back, forward, and search, along with battery and signal strength indicators. The main area is divided into two sections: a sidebar on the left and a list view on the right.

Left Sidebar (Asset Types):

- Inventory
- [Asset Types]
- Equipment
- Person

Right List View (Inventory Tab):

Inventory
Blade Chassis 00029
Blade Chassis 00030
Blade Chassis 00031
Blade Server 00032
Blade Server 00033
Blade Server 00034
NETWORK-0000001
NETWORK-0000002
NETWORK-0000003
NETWORK-0000004
NETWORK-0000005
NETWORK-0000006
NETWORK-0000007
NETWORK-0000008

Choosing the other two types, **Sensor** or **Summary – Location** will likewise give more choices to further filter assets.

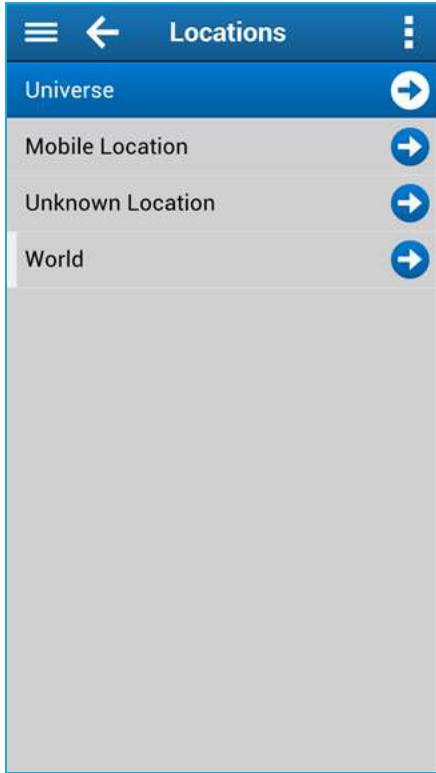
Browse Assets by Location

When tapping this option, you get a screen similar to the one below:

Assets by Location	
Location	Location
Unknown Location	Austin
World	Dallas
	Data Center 1
	Data Center 2
	Detroit
	Diff Press 1-1-1
	Diff Press 1-1-2
	Diff Press 1-2-1
	Diff Press 1-2-2
	Diff Press 2-1-1

The location tree that you are presented to navigate in the left column above (which shows **Unknown Location** and **World** in the first tier in the location tree, in this example) depends on the location tree that was created in CenterScape.

The smartphone version of Locations will look similar to the screenshot below:



Browse Alerts

When tapping this option, you get a screen similar to the one below:

Asset Alert	Asset Alert	17
Asset Offline Alert	Temperature alert has been detected for asset Rack Temp 1-1-1-1. 2013-10-31 09:27:48	Rack Temp 1-1-1-1
Asset Unexpected Location	Temperature alert has been detected for asset Rack Temp 2-2-1-1. 2013-10-31 09:23:16	Rack Temp 2-2-1-1
Custom Alert	Temperature alert has been detected for asset Rack Temp 2-1-1-1.	
Differential Pressure Alert	Temperature alert has been detected for asset Rack Temp 1-1-2-2.	
Door Close Alert	Temperature alert has been detected for asset Low Battery 1.	
Door Open Alert	Temperature alert has been detected for asset Rack Temp 1-1-2-1.	
Fluid Detected Alert	Temperature alert has been detected for asset Rack Temp 1-1-2-1.	
Humidity Alert	Temperature alert has been detected for asset Rack Temp 2-1-2-1.	
Low Battery Alert	Temperature alert has been detected for asset Rack Temp 2-1-2-2.	
Motion Alert	Temperature alert has been detected for asset Rack Temp 2-1-2-2.	
Tamper Alert	Temperature alert has been detected for asset Rack Temp 1-2-1-1.	
Temperature Alert	Temperature alert has been detected for asset Rack Temp 2-2-1-2.	

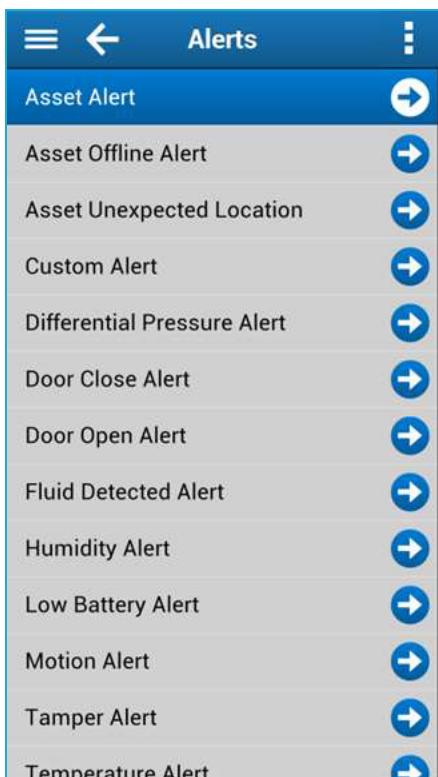
The **Asset Alert** screen updates in real-time, so you will see alerts as they come in, with the newest alert at the top. You can also drag-and-release in a downward motion (in other words: touch, pull down, and then release) to force a manual **Refresh** of the alert list.

The left column allows you to filter different types of alerts based on the alert type.

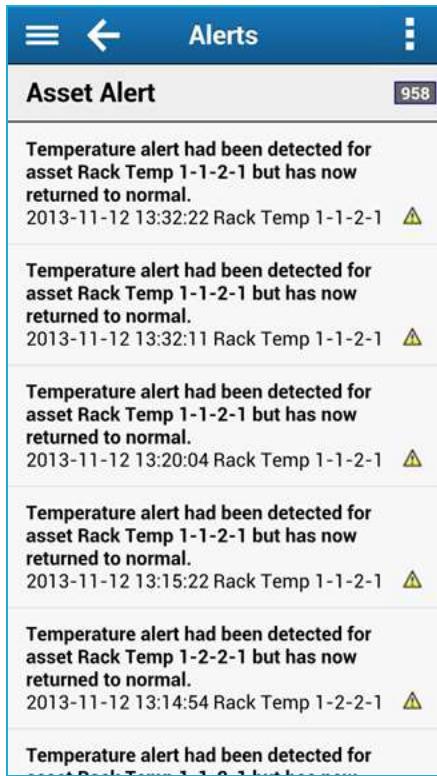
The icon on the bottom right of each alert box has an indicator showing the alert severity. These are the same icons used as in CenterScape.

Alert Icon	Legend
	Failure alert
	Informational alert
	Error alert
	Critical alert
	Warning alert

The smartphone version of **Alerts** will look similar to the screenshot below:



Once you choose **Alert Type** in the smartphone version, you will get a readout of **Alerts** similar to the screenshot below:



The Alert Screen

Once you select an alert, you will see a screen similar to this example screenshot below:

The screenshot shows a web-based alert management system. At the top, there's a header bar with a menu icon, a back arrow, the word "Alerts", a search icon, a filter icon, and two status indicators. Below the header is a title bar reading "Alert - TEMPERATURE_HUMIDITY_f7df6986afe60f18". The main content area is divided into sections: "Alert Information" and "Alert Criteria".

Alert Information	
Alert Source	Rack Temp 1-2-2-1
Alert Message	Temperature alert had been detected for asset Rack Temp 1-2-2-1 but has now returned to normal.
Alert State	Closed
Alert Severity	Critical
Alert Start Time	2013-10-31 11:32:36
Alert Resolve Time	2013-10-31 11:33:52

Alert Criteria	
Alert Threshold Name	Temp Alert 70+
Alert Threshold Type	Temperature Alert Threshold
First Attribute	Temperature
First Attribute Value Op...	>
First Attribute Value	70

There is additional information to see if you scroll down, and you have the ability to drill down to the alert source (in this example, **Rack Temp 1-2-2-1**).

Below is the bottom part of the information from this example. Notice that in the top-right corner that the **Less Detail** button is selected, so shown below is the **Less Detail** version of this alert.

≡ ← Alerts ⚡ 🔍 ⚡

Alert - TEMPERATURE_HUMIDITY_f7df6986afe60f18

Alert Criteria

Alert Threshold Name	Temp Alert 70+
Alert Threshold Type	Temperature Alert Threshold
First Attribute	Temperature
First Attribute Value Op...	>
First Attribute Value	70
Second Attribute	Temperature
Second Attribute Value ...	<=
Second Attribute Value	80.1

Additional Asset Attributes

Alert Threshold	Temp Alert 70+
Retired	No
Threshold Filter Asset T...	Temperature - Humidity
User Required To Ackn...	No

If you select the **More Detail** button, you can see (highlighted below) that additional alert information and criteria are now shown.

The screenshot shows a detailed view of an alert titled "Alert - TEMPERATURE_HUMIDITY_f7df6986afe60f18". The alert has a critical severity and was acknowledged by someone. It started at 2013-10-31 11:32:36 and was resolved at 2013-10-31 11:33:52. The alert criteria involve a temperature threshold between 70 and 80.1. The alert source is identified as "Rack Temp 1-2-2-1".

Alert Criteria	
Alert Threshold Name	Temp Alert 70+
Alert Threshold Type	Temperature Alert Threshold
First Attribute	Temperature
First Attribute Value Op...	>
First Attribute Value	70
Second Attribute	Temperature
Second Attribute Value ...	<=
Second Attribute Value	80.1
Third Attribute	
Third Attribute Value Op...	
Third Attribute Value	

Additional Asset Attributes

In the above example, the values now shown of **Alert Acknowledged By** and the **Third Attribute Value** criteria were not set up in the creation of this alert in CenterScape, so they show blank in this instance.

Asset Details Screen

From the Alerts, select a single alert to view Alert details. Select the **Alert Source** (in this example, **Rack Temp 1-2-2-1**) to drill down to that asset and its asset details.

The screenshot shows a web-based alert management system. At the top, there's a header bar with a menu icon, a back arrow labeled "Alerts", a search icon, a filter icon, and two other icons. Below the header, the title "Alert - TEMPERATURE_HUMIDITY_f7df6986afe60f18" is displayed. The main content area is divided into sections: "Alert Information" and "Alert Criteria".

Alert Information	
Alert Source	Rack Temp 1-2-2-1
Alert Message	Temperature alert had been detected for asset Rack Temp 1-2-2-1 but has now returned to normal.
Alert State	Closed
Alert Severity	Critical
Alert Start Time	2013-10-31 11:32:36
Alert Resolve Time	2013-10-31 11:33:52

Alert Criteria	
Alert Threshold Name	Temp Alert 70+
Alert Threshold Type	Temperature Alert Threshold
First Attribute	Temperature
First Attribute Value Op...	>
First Attribute Value	70

Now if you select the **Alert Source**, you will be taken to the **Asset Details** for the asset involved in this alert.

Below is a sample screenshot for **Asset Details** from the example asset like the type we have been using. Keep in mind that the asset information will vary widely on the type of asset viewed.

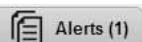
The screenshot shows the 'Basic Information' screen for an asset named 'Rack Temp 1-2-2-1'. The screen is divided into three main sections: 'Basic Information', 'Additional Sensor Information', and 'Additional Asset Attributes'. The 'Basic Information' section contains fields for Name (Rack Temp 1-2-2-1), Asset Tag (TMRCK00000007), Asset Location (Rack 1-2-2-1), Location Mode (Locked), and Locked Location (Rack 1-2-2-1). The 'Additional Sensor Information' section contains fields for Temperature Sensor A... (IT Rack Sensor), Airflow Position (Rack Intake Temperature), and Rack Position (Middle). The 'Additional Asset Attributes' section contains fields for Last Update Time (2013-09-27 15:29:13), Last Update User (admin), Location Path (Location / World / North America / US / Texas / Austin / Data), Low Battery (No), Max Alert Severity (Critical), and Message Loss Rate (47 %).

Basic Information Screen

Three types of Basic Information are presented for all assets: the Name, Asset Tag, and Asset Location.

The menu bar of this screen also gives you some action buttons regarding that particular asset. Each button performs a separate function.

The screenshot shows the menu bar of the CENTERscape software. The buttons are: Alerts (highlighted in yellow), Search, Filter, Retire, Delete, and Edit.

Button	Name	Description
 Alerts (1)	Alerts	This button appears only when an asset has one or more active alerts. In parentheses, shows how many <i>active</i> alerts this asset is in, and when selected, takes you to that alert or list of alerts.
 Retire	Retire	Allows you to Retire the asset, just like you would retire the asset in Center-Scape. For more details, refer to the CenterScape System Administrator Manual.
 Delete	Delete	Allows you to delete the asset, just like you were deleting the asset in Center-Scape. For more details, refer to the CenterScape Administrator Manual.
 Edit	Edit	Allows you to edit asset information.

Asset Tag Screen

When you select the **Asset Tag** from the **Asset Details** screen (or from a direct search), you will get the same type of information as when you look at the **Tag Details** information for a tag from Center-Scape.

The screenshot shows a mobile application interface for managing asset tags. At the top, there is a navigation bar with icons for back, search, and filter. Below the bar, the title "Asset Tag - TMPRCK00000007" is displayed. The main content area contains a table with the following data:

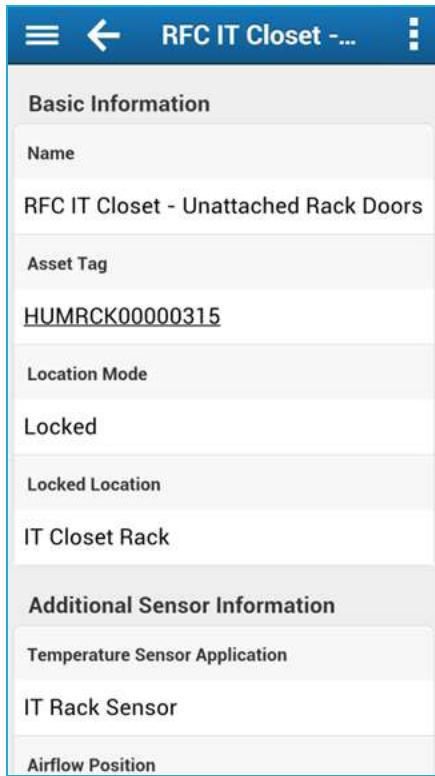
Tag Type	mantis04D
Low Battery	No
Message Loss Rate	47%
Sensor Disconnected	No
Temperature	73.4° F
Reader 2 CHANNEL_A	SSI: -70
Reader 2 CHANNEL_B	SSI: -70

In the smartphone version, looking at an **Alert** shows similar to the screenshot below:

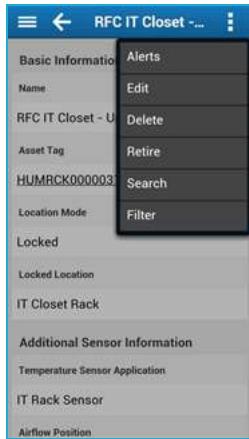
The screenshot shows a mobile application interface for viewing alerts. At the top, there is a navigation bar with icons for back, search, and filter. Below the bar, the title "Alert - RACK_T..." is displayed. The main content area is divided into sections:

- Alert Information**
- Alert Source**: RFC IT Closet - Unattached Rack Doors
- Alert Message**: Low battery has been detected for the tag associated with asset RFC IT Closet - Unattached Rack Doors Sensor 6.
- Alert State**: Open
- Alert Severity**: Warning
- Alert Start Time**: 2013-11-11 09:16:11

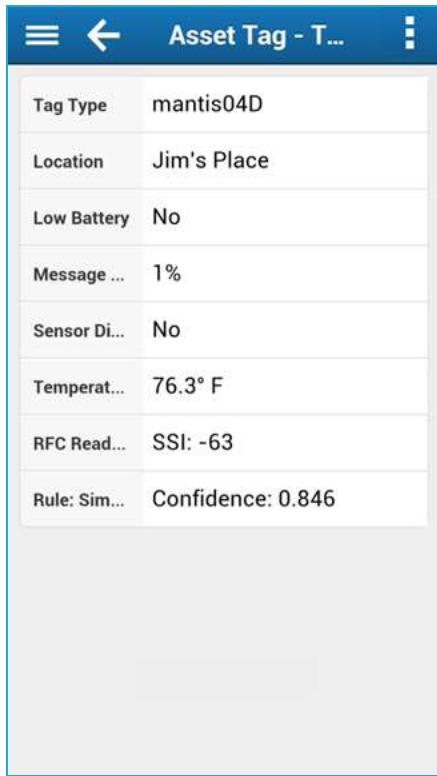
This also lets you drill down to the Asset by tapping on the Alert Source:



As mentioned in the **Basic Navigation** section, the tapping the **Context Menu** button gives you multiple options for the asset at this point as well:



And you can also tap on the **Asset Tag** itself to see its **Tag Details**, which will look similar to this screenshot:



Edit Assets – Barcode Icon

Selecting the **Edit** button for an Asset enables you to edit the Asset information, including the ability to use your smartphone or tablet as a barcode scanner so that you can add the barcode to the Asset's details.

Any field that has the Barcode icon  in the right side of it has the ability to use this feature.

There are two Barcode icons in this screenshot below from a tablet, and the Barcode icon to the right of the Serial Number field is highlighted:

The screenshot shows a mobile application interface for managing assets. At the top, there is a navigation bar with icons for back, search, filter, and add. Below the bar, the title "Assets by Locat..." is partially visible. The main content area displays a form for an asset named "Dell Server #128". The form fields include:

- Manufacturer: Acer
- Model: (Barcode icon with value 15397)
- Serial Number: (Barcode icon with value 15397)
- Asset Image: (Camera icon)
- Expected Service Lif...: (Text input field)
- DAYS_SINCE_SERVI...: 403.0
- Days since Service: 403

At the bottom right of the form are "Cancel" and "Save" buttons.

This is very similar to the screenshot of the smartphone version below, and the **Barcode** icon is identical:

The screenshot shows a smartphone application interface for managing assets. At the top, there is a navigation bar with icons for back, search, filter, and more. Below the bar, the title "IBM Server 12..." is partially visible. The main content area displays a form for an asset named "IBM Server 12...". The form fields include:

- Manufacturer: Acer
- Model: (Barcode icon with value 15397)
- Serial Number: (Barcode icon with value 15397)
- Asset Image: (Camera icon)
- Expected Service Life (Years): (Text input field)
- DAYS_SINCE_SERVICE_DATE: 402.0

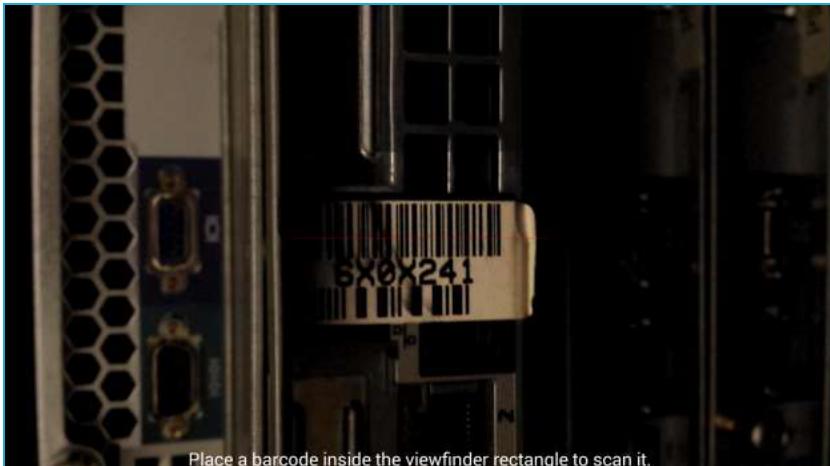
At the bottom right of the form are "Cancel" and "Save" buttons.

Both the smartphone and tablet versions are similar from here: Tap the **Barcode** icon, you will receive a screen similar to the screenshot below, that uses your device's camera with a red barcode scanner line that is inside a rectangle to be used as the target for the barcode you want to scan:



Place a barcode inside the viewfinder rectangle to scan it.

Lining up a barcode to be scanned may look similar to this example screenshot:



Place a barcode inside the viewfinder rectangle to scan it.

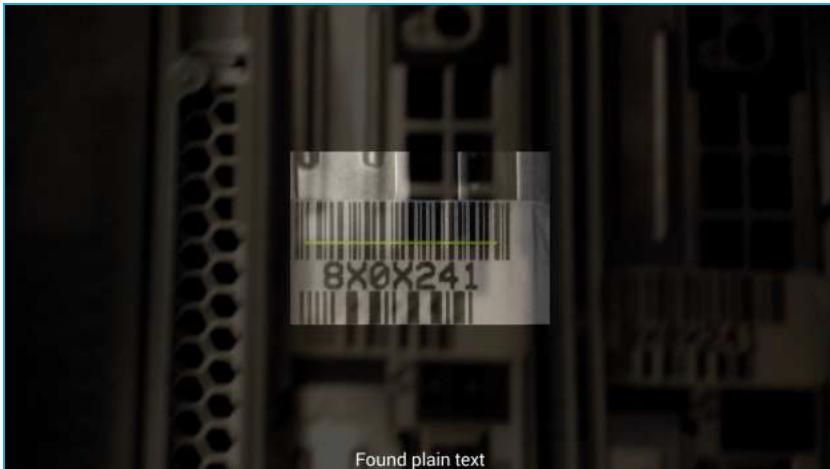
You will not need to hit any additional buttons, as the scan will depend on your device's camera focusing ability.

TIP: You may need to slowly move your smartphone or tablet a little closer or a little farther from the target barcode so that the camera re-focuses to get the image sharp enough to scan the barcode.

There will be two indications of a *successful* barcode scan:

1. An audible ***BEEP*** from your smartphone/tablet.
2. The red barcode scanner line will turn **GREEN**.

An example screenshot of a *successful* barcode scan is below:



After a successful barcode scan, you will be taken back to the **Edit Asset** screen, similar to the screenshot below, where the scanned serial number now populates the **Serial Number** field (**8X0X241** in this example):

A screenshot of a mobile application's "Edit Asset" screen. The title bar says "IBM Server 12...". The screen contains the following fields:

- Acer (dropdown menu under Model)
- Model (dropdown menu under Model)
- Barcode image (labeled 5397)
- Serial Number: 8X0X241 (with a small barcode icon next to it)
- Asset Image (with a camera icon)
- Expected Service Life (Years) (empty field)
- DAYS_SINCE_SERVICE_DATE: 403.0
- Days since Service (empty field)

At the top right are "Cancel" and "Save" buttons.

Then tap the green **Save** button in the top right corner to complete saving new barcode information for the asset.

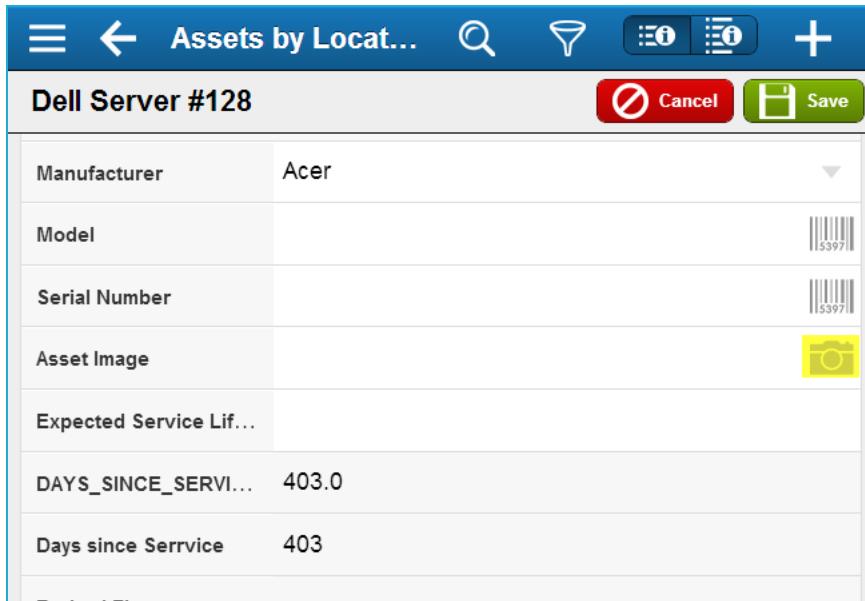
To clear the field, tap the  that is next to, or on top of (depending on your smartphone/tablet) the **Barcode Icon**.

Edit Assets – Camera Icon

Selecting the **Edit** button for an Asset also enables you to add photos, using the **Camera** icon, to the Asset information, including the ability to use your Smartphone's or tablet's camera so that you can add photos to the Asset's details.

Any field that has the Camera icon  in the right side of it has the ability to use this feature.

There is a Camera icon in the screenshot below from a tablet, and the Camera icon is highlighted to the right of the Asset Image field:



This is very similar to the screenshot of the smartphone version below, and the Camera icon is identical:

IBM Server 12...

Manufacturer: Acer

Model:

Serial Number:

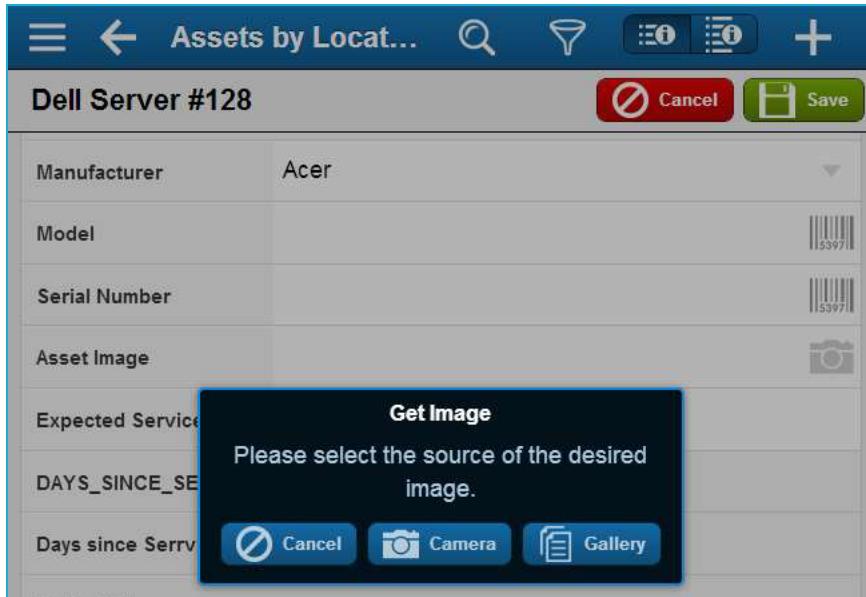
Asset Image:

Expected Service Life (Years):

DAYS_SINCE_SERVICE_DATE: 402.0

Cancel Save

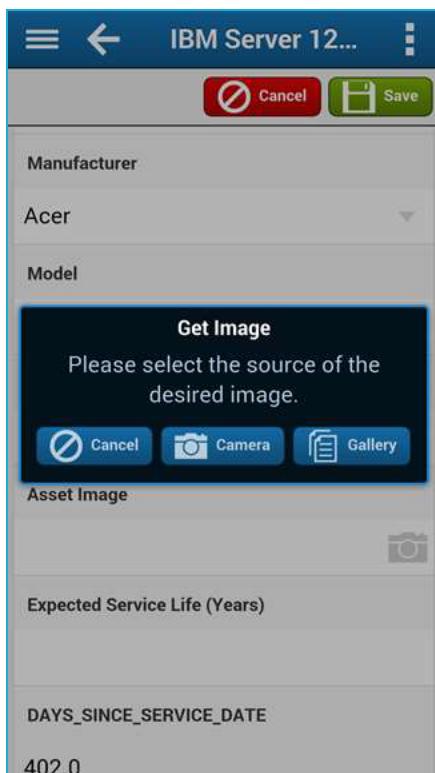
To take a photo, tap the **Camera** icon, and a **Get Image** dialog box will appear, similar to this screenshot below from a tablet:



You then will see three option buttons in the Get Image dialog box:

#	Icon	Name	Function
1	 Cancel	Cancel	Cancels taking a photo, and return to the Edit Asset screen.
2	 Camera	Camera	Takes you to your device's onboard Camera, where you take the picture as you normally do. Once a photo is taken, it will be attached to the field you are using, and you will automatically return to the Edit Asset screen.
3	 Gallery	Gallery	Takes you to your device's onboard photo Gallery, where you can choose a photo from your gallery to use. Once a photo is chosen, it will be attached to the field you are using, and you will automatically return to the Edit Asset screen.

This is very similar to the screenshot of the smartphone version below, and the **Get Image** dialog box and its three buttons and usage are similar to the tablet's version:



Once you have completed taking a photo with your smartphone's or tablet's camera or selecting a photo from your device's gallery, you will return to the **Edit Asset** screen, and the field that now has

the photo will contain the phrase **Image Selected** (in light gray font, in the **Asset Image** field and highlighted in this example) similar to the screenshot below:

The screenshot shows a mobile application interface titled "Assets by Location". At the top, there are navigation icons (three horizontal lines, back arrow, three dots) and a toolbar with "Cancel" and "Save" buttons. Below this, a section titled "Under Warranty" contains fields for "Manufacturer" (Acer), "Model" (with a barcode icon and value 15397), "Serial Number" (8X0X241, with a barcode icon and value 15397), and "Asset Image" (containing the text "Image Selected" in a light gray font, highlighted with a yellow box). There is also a camera icon. At the bottom, there is a section for "Expected Service Life (...)".

NOTE: Screenshot is landscape of the smartphone version.

To **Save** the photo you just added, tap the **Save** button at the top right of the screen.

To **Discard** the photo you just added, tap the **Cancel** button at the top right of the screen.

Acknowledging Alerts

For alerts that require acknowledgment, you can also Acknowledge Alerts. The Acknowledge Alert button (highlighted below) appears when you view an alert that was configured to require acknowledgment.

NOTE: Configuring alerts to require acknowledgment must be performed in CenterScape.

The screenshot shows the 'Alerts' page with a single alert entry. The alert details are as follows:

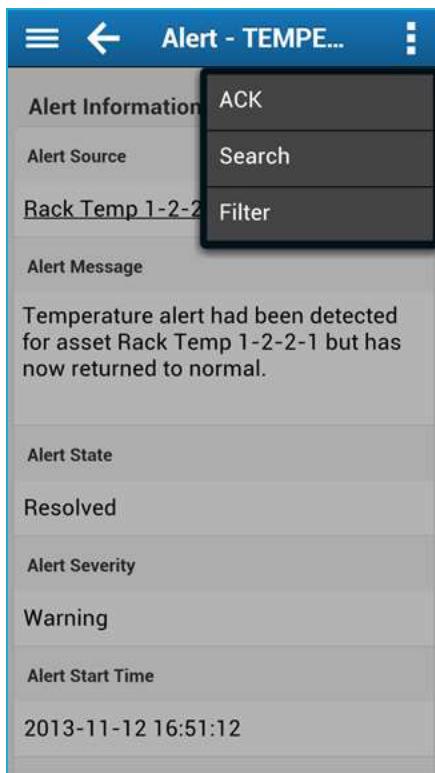
Alert Information	
Alert Source	Rack Temp 2-2-2-1
Alert Message	Temperature alert has been detected for asset Rack Temp 2-2-2-1.
Alert State	Open
Alert Severity	Warning
Alert Start Time	2013-11-04 15:46:06

Alert Criteria	
Alert Threshold Name	Temp Alert 60+
Alert Threshold Type	Temperature Alert Threshold

After tapping the **Acknowledge Alert** button to acknowledge the alert, it will gray out, as seen below:

The screenshot shows the 'Alerts' page with the same alert entry, but the 'ACK' button is now grayed out, indicating the alert has been acknowledged. The alert details remain the same as in the previous screenshot.

In the smartphone version, you have to tap the **Context Menu** button and then tap **ACK** in the drop-down menu in order to acknowledge an alert as there is no **Acknowledge** button in the smartphone version when you view an alert. An example of where the **ACK** is located in the smartphone version is shown in the screenshot below:



Bookmarks

Creating a **Bookmark** in CenterScape Mobile is a simple function that allows you to bookmark *any* screen in the CenterScape Mobile so that you can come back to it later.

TIP: Bookmarks created and used in CenterScape Mobile *do not affect and do not interact with* Bookmarks in the CenterScape main web interface – they are two separate sets of bookmarks.

Creating a Bookmark

Once at a place you want to Bookmark, select the **Main Menu** button, highlighted below:

BASIC INFORMATION

Name	BADGE TAG TEST - JIM
Asset Tag	IRFBDBG00000010
Previous Location	JIM_S_TEST_SSI_RULE
Days Since Service	134.0
Days since Service	134

ADDITIONAL ASSET ATTRIBUTES

Button #1	No
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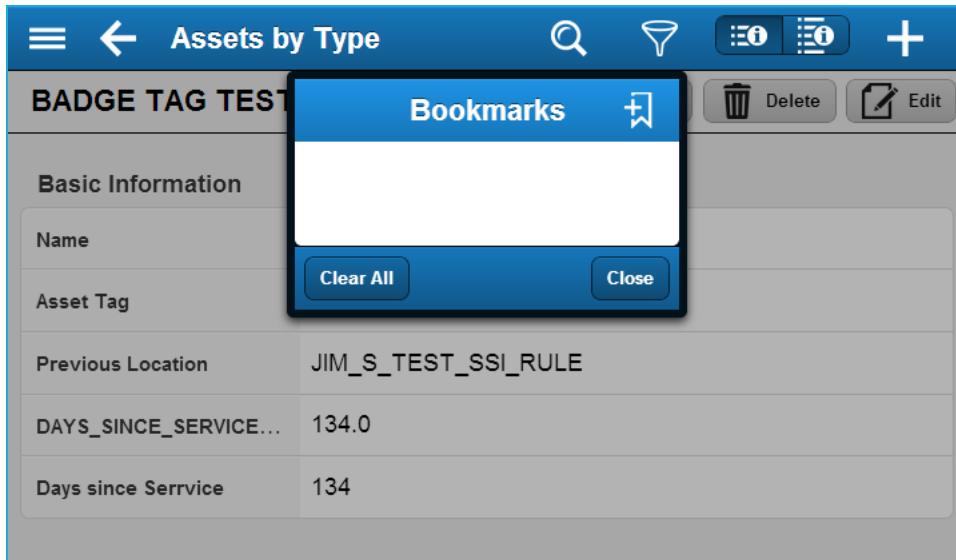
Then select the **Bookmarks...** button from the **Main Menu**:

MAIN MENU

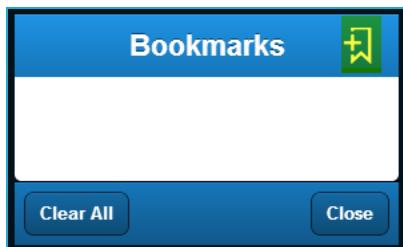
- CenterScape Mobile
- Asset Types
- 21372 Attribute
- Bookmarks ...**
- Logout

A **Bookmarks** dialog box will appear containing all of your stored Bookmarks like the one below.

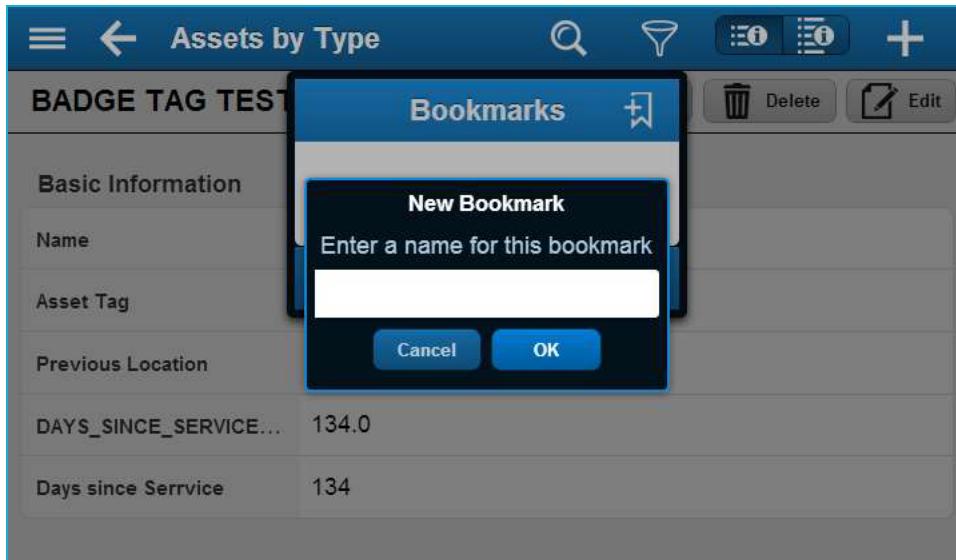
This box will be blank upon first use. This menu will allow you to navigate to your stored Bookmarks in CenterScape Mobile.



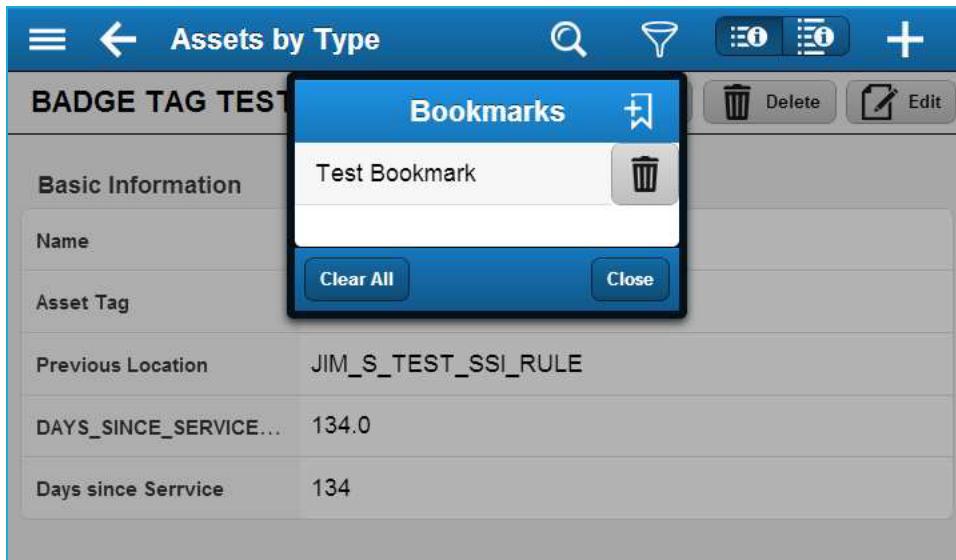
To **Create a Bookmark**, select the **Add Bookmark** button  (highlighted in the image below) at the top right corner of the **Bookmarks** dialog box:



Then the **New Bookmark** box will appear similar to as shown in the below screen, and you can then input your **Bookmark** name, and select the **OK** button to save your new Bookmark.



Below is what a created bookmark looks like when you bring up the Bookmarks window again after you have created a bookmark. In this example, it is called **Test Bookmark**.



In the smartphone version, after choosing **Bookmarks** from the **Main Menu**, will look similar to the screenshot below:



Bookmark creation follows a similar format as in the tablet version.

Global Search

At any point while using CenterScape Mobile, you can use the **Global Search** function to find an asset, tag, alert, etc. – basically any string in an alert or an asset/sensor in CenterScape.

To conduct a search, select the Global Search button (magnifying glass), found on the title bar of the CenterScape Mobile screen here:

Asset Alert	Asset Alert	282
Asset Offline Alert	Temperature alert has been detected for asset Rack Temp 2-1-1-1. 2013-11-06 09:16:32 Rack Temp 2-1-1-1	⚠
Asset Unexpected Location	Temperature alert has been detected for asset Rack Temp 1-1-2-1. 2013-11-06 09:13:22 Rack Temp 1-1-2-1	⚠
Custom Alert	Temperature alert has been detected for asset Low Battery 1. 2013-11-06 09:10:28 Low Battery 1	⚠
Differential Pressure Alert	Temperature alert has been detected for asset Rack Temp 2-2-2-1. 2013-11-06 09:04:02 Rack Temp 2-2-2-1	⚠
Door Close Alert	Temperature alert had been detected for asset Rack Temp 2-1-1-1 but has now returned to normal. 2013-11-06 09:01:51 Rack Temp 2-1-1-1	⚠
Door Open Alert		

Then a **Global Search** dialog box will appear like this:

Asset Alert	Asset Alert	283
Asset Offline Alert	Temperature alert has been detected for asset Rack Temp 2-1-1-1. 2013-11-06 09:20:33 Rack Temp 2-1-1-1	⚠
Asset Unexpected Location	Temperature alert has been detected for asset Rack Temp 2-1-1-1. 2013-11-06 09:13:22 Rack Temp 2-1-1-1	⚠
Custom Alert	Temperature alert has been detected for asset Low Battery 1. 2013-11-06 09:10:28 Low Battery 1	⚠
Differential Pressure Alert	Temperature alert has been detected for asset Rack Temp 2-2-2-1. 2013-11-06 09:04:02 Rack Temp 2-2-2-1	⚠
Door Close Alert	Temperature alert has been detected for asset Rack Temp 2-2-2-1. 2013-11-06 09:04:02 Rack Temp 2-2-2-1	⚠
Door Open Alert	Temperature alert had been detected for asset Rack Temp 2-1-1-1 but has now returned to normal. 2013-11-06 09:01:51 Rack Temp 2-1-1-1	⚠

Search

Search for	
Attribute	-- Attribute --
<input type="button" value="Cancel"/> <input type="button" value="Search"/>	

Then you can specify the string you want to search for in the **Search For** field, which contains a **Barcode** icon in the right of the field, so you have the option to scan a barcode to use in your search also.

Example: Say you want to search for a specific **Asset Tag ID**, like the “IRFBDG00000010” Asset Tag ID. You would type in that tag’s ID in the **Search For** field like below:

The screenshot shows the 'Assets by Type' page. On the left, a sidebar lists categories: Inventory, IT Equipment, Office Equipment, Other Equipment, Person, Training Type, and Vehicle. The main area displays a table of assets. A search dialog box is overlaid on the table. The dialog has a blue header 'Search'. In the 'Search for' field, the value 'IRFBGDG00000010' is entered, accompanied by a barcode icon. Below it, the 'Attribute' dropdown menu is open, showing the option '-- Attribute --'. At the bottom of the dialog are two buttons: 'Cancel' and 'Search'.

Inventory	Inventory	Asset Tag
[Asset]	061E33C	RCKIRC00495172
IT Equipment		RCKIRC00495209
Office Equipment		
Other Equipment		
Person		AGILIT00023711
Training Type		RFBDG00000010
Vehicle		RCKIRC00000015
		RCKIRC00001614
CME Server 2		
CME Server 3		IRCODE00060240

You can just hit the **Search** button now, but if you want to conduct a more targeted search to come back with quicker results, you can specify which **Attribute** you want to limit the search to so you are not performing a search on all assets (to save time in larger asset deployments).

NOTE: When performing an **Attribute**-specific search, the search string becomes **case-sensitive**.

When you select the **Attribute** drop-down menu, you will see a dialog box appear in front of the **Search** dialog box that allows you to search a specific attribute if you choose to.

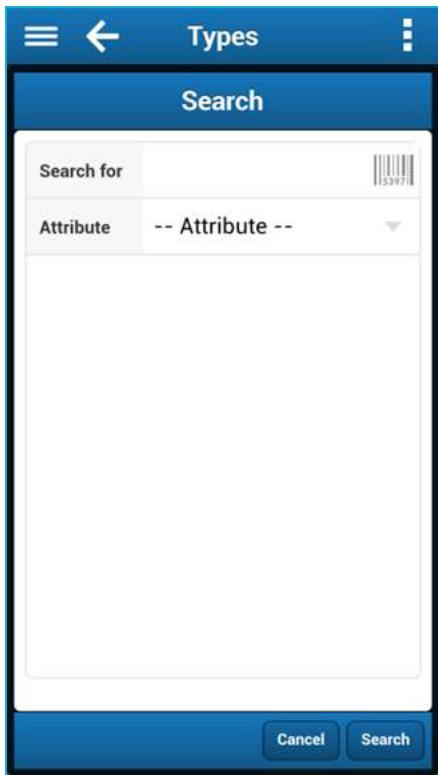
The screenshot shows the 'Assets by Type' interface. On the left, a sidebar lists categories: Inventory, IT Equipment, Office Equipment, Other Equipment, Person, Training Type, and Vehicle. The 'Inventory' category is selected, showing a table with two rows: [Asset] 061E33C and CME Server 3. A search dialog is open over the table. The dialog has a title 'Search' and fields 'Search for: IRFBGDG00000010' and 'Attribute: -- Attribute --'. Below these fields is a large blue button labeled 'CME Server 2'. To the right of the search dialog is a modal window titled '-- Attribute --' with a checkmark icon. This modal lists several attributes: Agent IP Address, Alert Message, Alert Threshold Name, Alert Value, Alert Acknowledged By, and Color. The letter 'C' is highlighted in blue at the top of the list.

In this example, an attribute was not chosen, but after clicking on the **Search** button, the desired result appeared below:

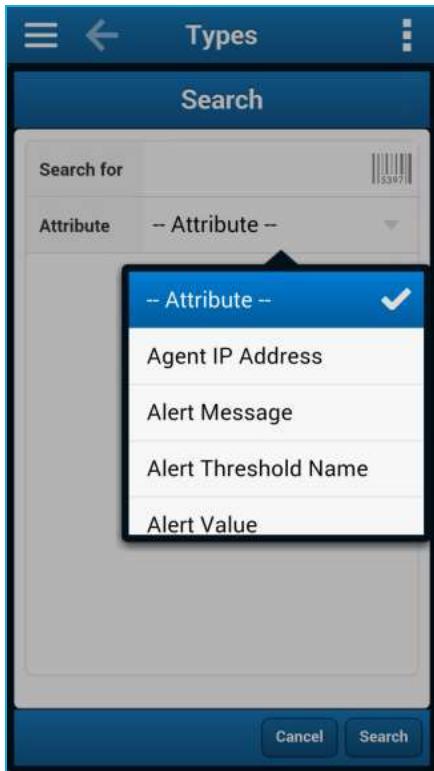
The screenshot shows the 'Assets by Type' interface with a search results panel. The search bar at the top contains the text 'Search "IRFBGDG00000010"'. Below the search bar, the message 'Name: BADGE TAG TEST - JIM • Asset Tag: IRFBGDG00000010' is displayed. At the bottom of the search results panel, there are three small circular icons.

Selecting that result (or a result from a list of search results) will take you to that asset, and you can then click on the **Asset Tag ID** to view its **Tag Details**.

In the smartphone version, selecting **Global Search** from the **Main Menu** will look similar to the screenshot below:



The screenshot below shows the kind of drop-down menu you will see when selecting **Attribute** in the **Global Search** function:



Otherwise the **Global Search** is similar to the tablet version.

Asset and Sensor Filtering

In order to filter assets/sensors to see the list that fits certain criteria, CenterScape Mobile allows **Asset/Sensor Filtering** with up to three filtering layers.

To filter assets/sensors, from any asset list, select the **Filter** button.

Assets by Type		
Inventory	Inventory	255 Asset Tag
[Asset]	061E33C	RCKIRC00495172
IT Equipment	061E34C	RCKIRC00495209
Office Equipment	AAAAAA	
Other Equipment	An Asset for Training	
Person	asdf	AGILIT00023711
Training Type	BADGE TAG TEST - JIM	IRFBDG00000010

Then the **Asset Filter** dialog box will appear, which looks like the screenshot below:

≡ ← Assets by Type 🔍 FILTER EDIT INFO +

Inventory Inventory 255 Asset Tag

Asset Filter

Type Filters

Asset (NAV)	Inventory
Universe	Any Universe

Filter Options

Status	Active Only
Sort	Default for Topic

Attribute Filters +

Reset Cancel Apply

Asset Filter Options

Type Filters

Asset (NAV) – This is the type of asset that you want to filter for. This variable is a function of, and is controlled by, what screen you are on in the application. To change the value, you must first navigate to the screen that you want to perform the filter on, and then select the **Filter** button.

If you were not sure where you are in the CenterScape Mobile application when you want to set up a Filter, you can get to the top three levels by selecting the **Main Menu** button  and choosing one of the top levels listed here:

Browse Assets by Type

Browse Assets by Location

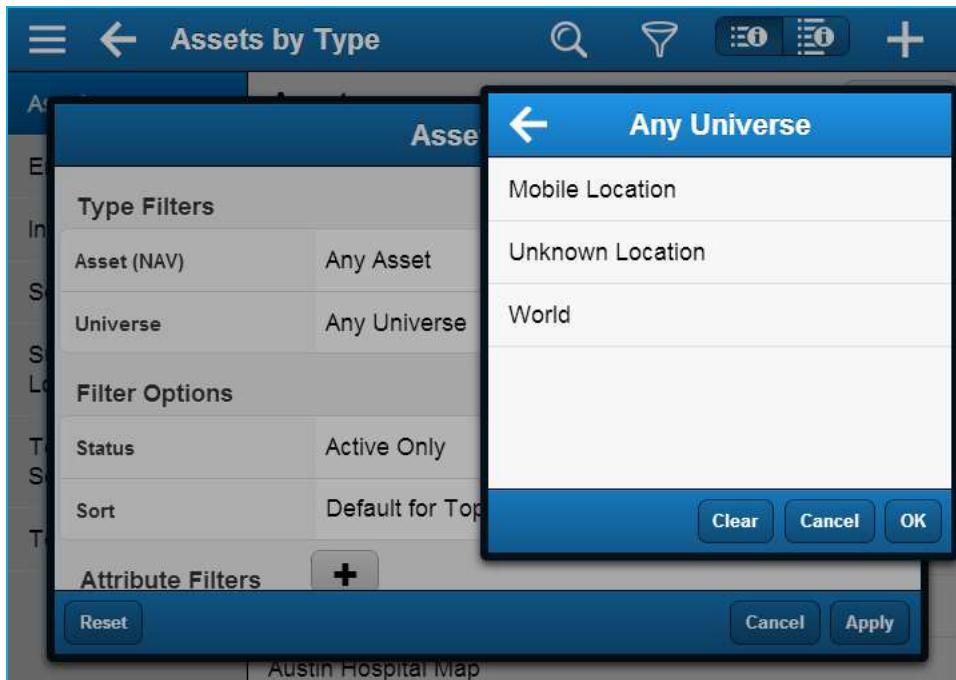
Browse Alerts

which are shown in the screenshot below:



Filtering for Assets or Sensors Only

Universe – This value allows you to select a **Location** to use in the filter. When you select this you will get a dialog box that is based on your **Location Tree** in your CenterScape similar to the screenshot below, which you can then navigate through to find the location you want.



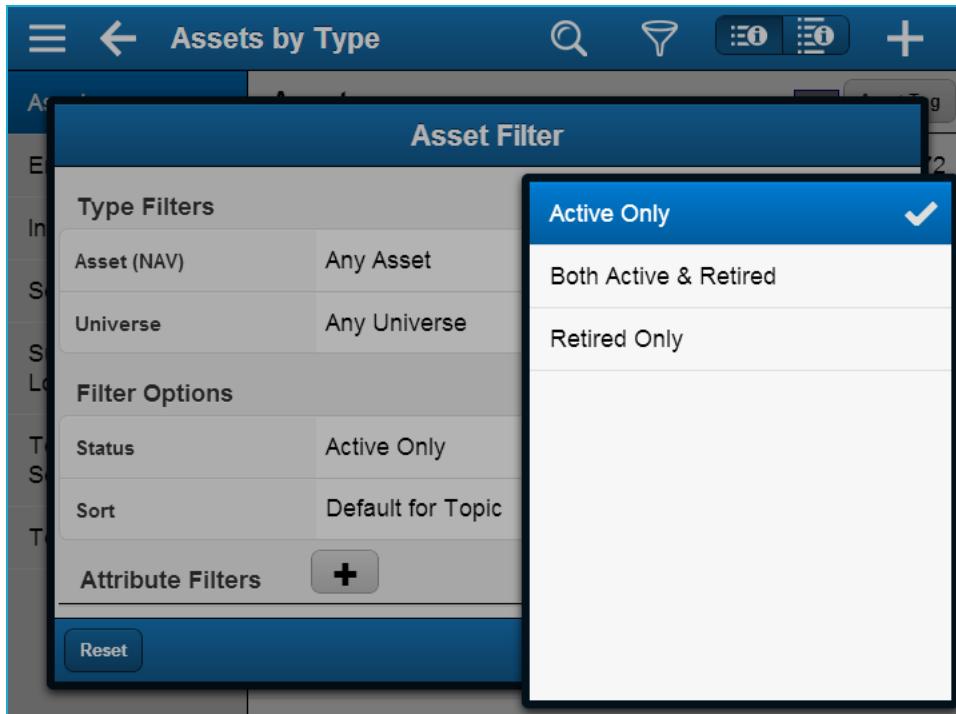
The current location choice is shown in the title bar of the dialog box, and the **Left Arrow/Back Arrow** button in the title bar of the dialog box allows you to navigate up one level.



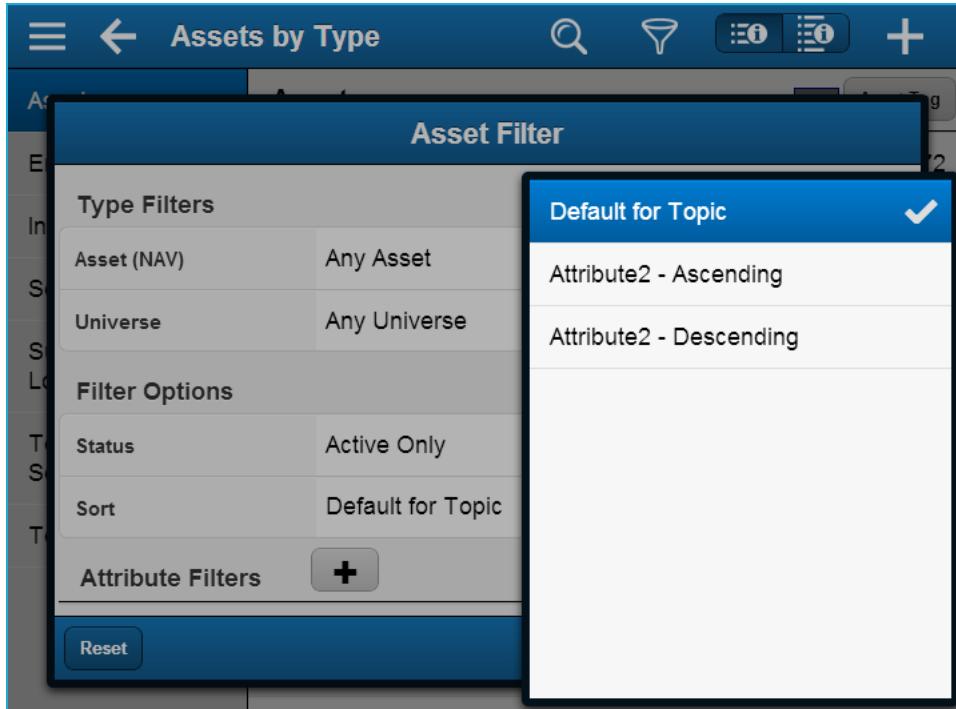
Once you find the location you want, you then can select the **OK** button to lock in your choice.

Filter Options

Status – This allows you to select whether you want to include assets/sensors that are **Active Only**, **Retired Only**, or **Both Active & Retired** statuses.

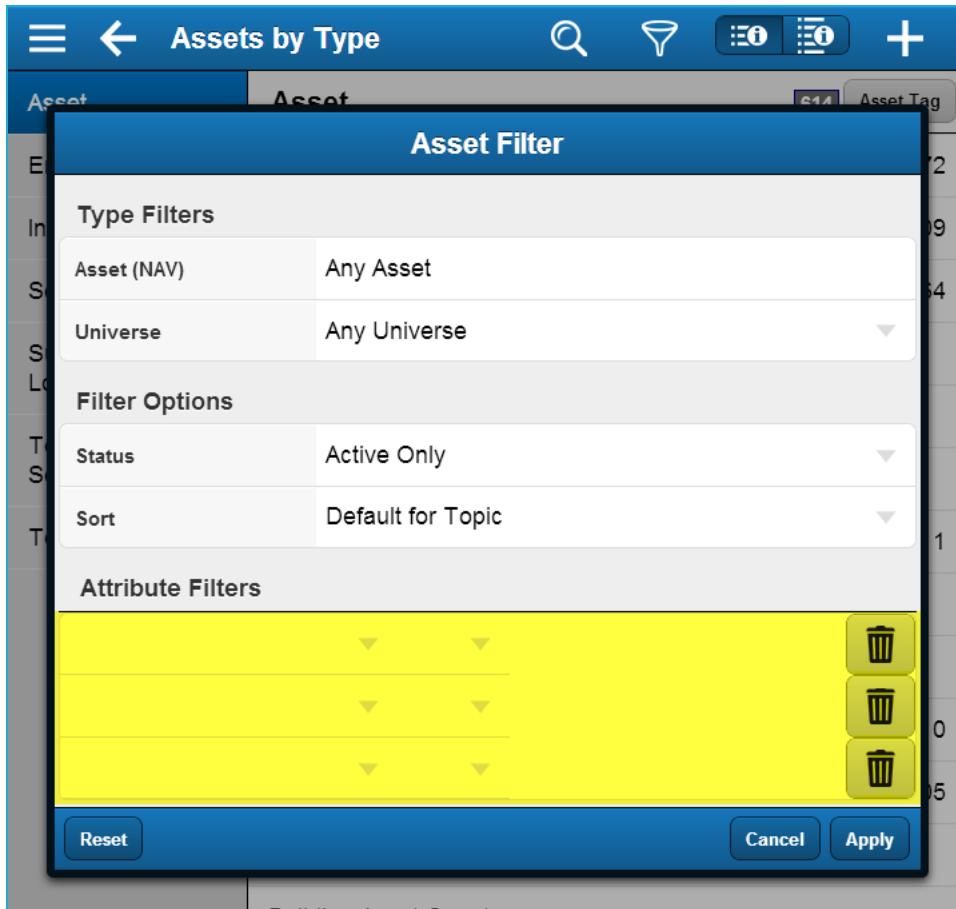


Sort – This is a generic sort value with three choices: **Default for Topic** (no sorting), **Ascending**, or **Descending**.

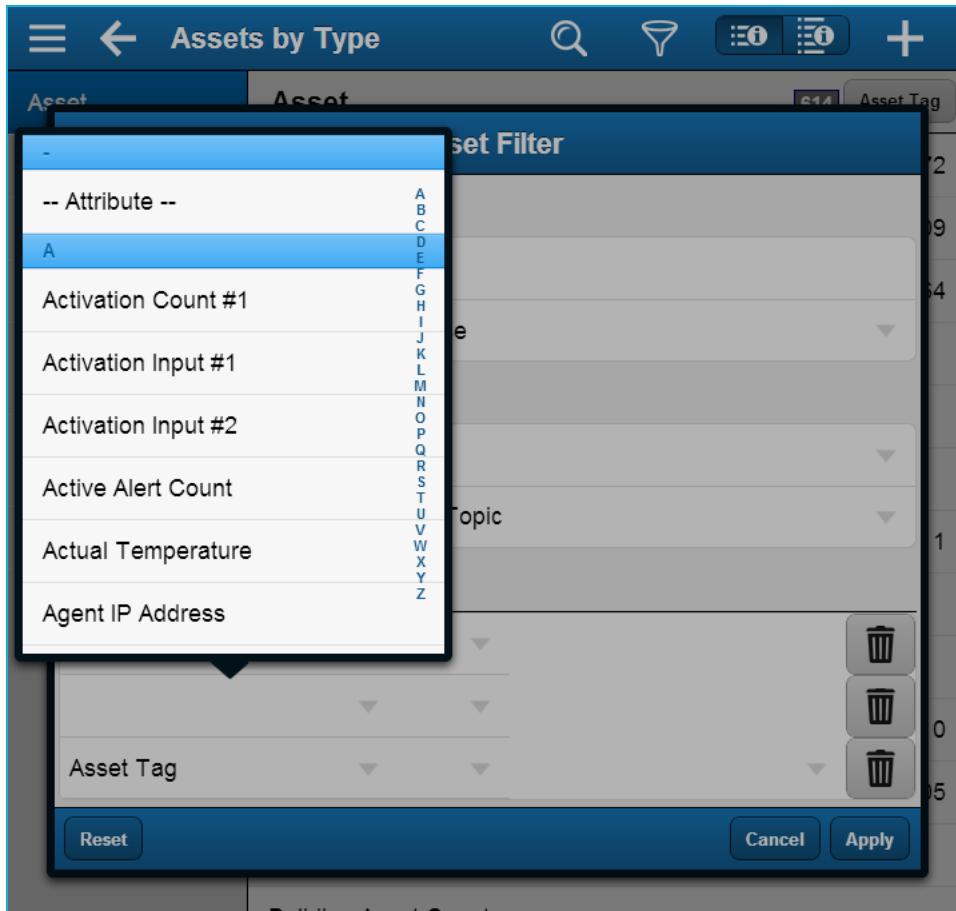


Attribute Filters – If you choose, selecting this **Attribute Filters** button  allows you to add up to three attribute filters so that you can narrow your filter results.

When you press the **Attribute Filters** button, you can get up to three lines added to the Asset Filter box similar to the ones highlighted below, each with a **Trash** button on the right of each **Attribute Filter** field to remove that particular attribute filter, if desired.

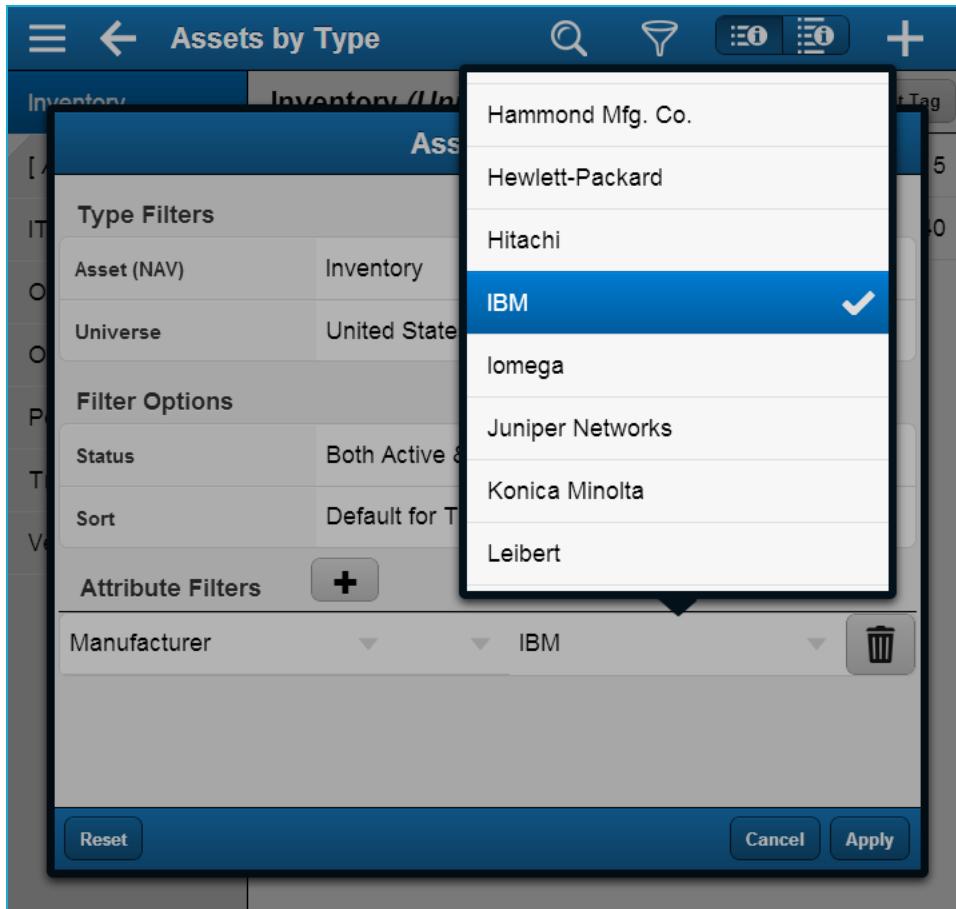


When you tap the left side (approximately underneath the words **Attribute Filters**) of each one of these **Attribute Filter** fields, an **Attribute** dialog box will appear, allowing you to select the desired attribute to add to the filter, similar to the screenshot below.



In the above screenshot, one **Attribute Filter** has already been created, and the **Attribute** dialog box is open for selecting a second attribute.

Once you have chosen an **Attribute**, you then need to specify its value. By tapping near the right part of each **Attribute Filter** field (but to the left of the **Trash** button), you will open an **Attribute Value** dialog box (similar to the screenshot below) that contains all of that particular attribute's possible values. The values shown in the dialog box vary depending on the attribute.



You can then proceed making up to three **Attribute Filters** in the same fashion.

After you finish making filters and click the **Apply** button, you will see the results of your filter displayed in a similar way to the screenshot below:

The screenshot shows the 'Assets by Type' screen in the CENTERscape application. The left sidebar lists categories: Inventory, [Asset], IT Equipment, Office Equipment, Other Equipment, Person, Training Type, and Vehicle. The main panel is titled 'Inventory (United States)' and shows two items: 'IBM X3350 - Mail Server 1' with asset tag 'IRCODE00060115' and 'IBM X3350 - Mail Server 3' with asset tag 'IRCODE00060040'. A small navigation bar at the top includes icons for search, filter, and add.

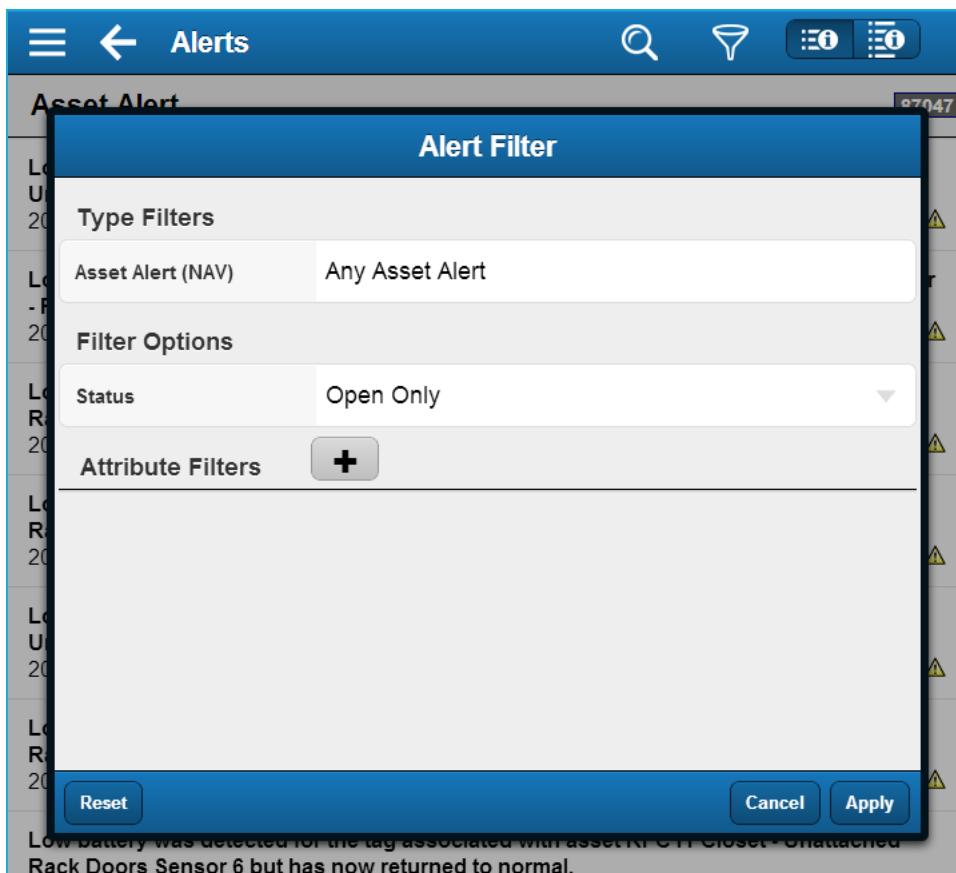
Inventory	Inventory (United States)	
[Asset]	IBM X3350 - Mail Server 1	IRCODE00060115
IT Equipment	IBM X3350 - Mail Server 3	IRCODE00060040
Office Equipment		● ● ●
Other Equipment		
Person		
Training Type		
Vehicle		

TIP: To clear a filter you have applied, tap the **Reset** button in the **Asset Filter** dialog box.

Filtering for Alerts Only

When you have chosen **Alerts** from the **Main Menu**, filtering works in a similar way as it does for assets: set the variables in the filter, then tap the **Apply** button.

When you select the **Filter** button when in **Alerts**, you get an **Alert Filter** dialog box similar to the one shown below.



The **Alert Filter** filters on fewer variables than the **Asset Filter**:

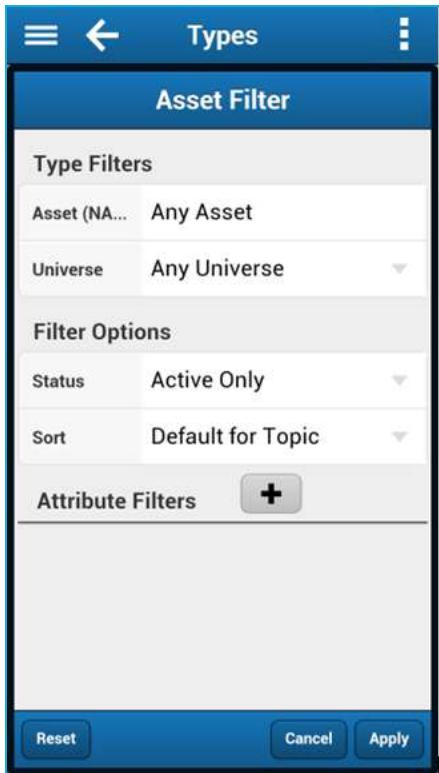
Status – The alert status variable can be **Open Only**, **Closed Only**, or **Both Open & Closed**.

Attribute Filters – These function in the same way as the **Asset Filter's Attribute Filters**, though you can only use a maximum of two **Attribute Filters** in an **Alert Filter**.

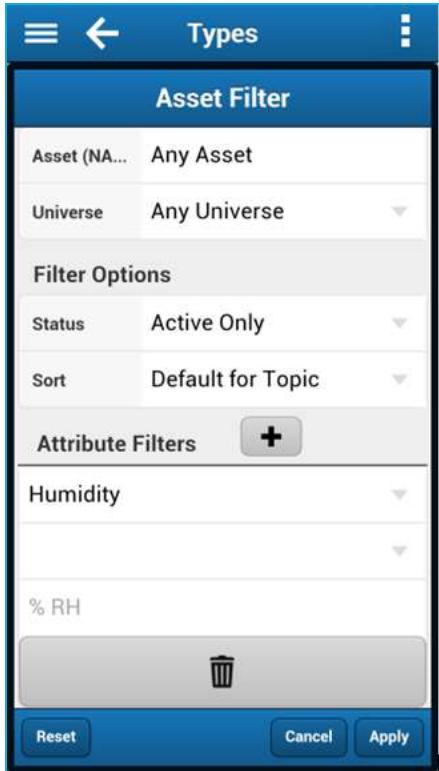
TIP: To clear a filter you have applied, tap the **Reset** button in the **Alert Filter** dialog box.

In the smartphone version, the **Filter** option appearance and functions are very similar to the tablet version.

An **Asset/Sensor Filter** screen looks similar to the screenshot below:



And below is a screenshot after you have chosen an **Attribute Filter** (Humidity, in this example):



Below is a screenshot from an **Alert Filter**, showing the drop-down box used for choosing an **Attribute Filter**:

