

Attributes allow you to add custom, descriptive properties to individual hierarchy levels (nodes)—such as alert addresses, email lists, and timezones. When you apply an attribute to a hierarchy level, all members of that level (vehicles, drivers, landmarks and/or users) are automatically assigned to that attribute.

## EXAMPLE

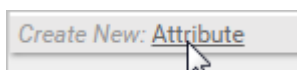
Company XYZ has several dispatch facilities in Arizona and Minnesota. XYZ's owner wants to specify an email list and a timezone for both facilities so that he can schedule reports that are formatted according to the proper timezone and are automatically sent to the email distribution list per facility.

### ► To create and assign a timezone hierarchy attribute:

1. From the portal, click the **Account** menu, click **Manage Hierarchy**, and click **Describe with attributes**.

The Manage Attributes page opens in a new browser tab.

1. At the bottom of the Attribute Definitions grid, click **Attribute** next to Create New.



The Add New Attribute screen window appears.

1. Set the different properties for the attribute:
  - **Attribute Name:** Enter the user-friendly identifier for the attribute (e.g., Timezone).
  - **Attribute Type:** Select the check box(es) for each type this attribute supports. In the Company XYZ example, we're using this attribute for hierarchy only.
  - **Value Type:** Choose the data type that is allowed for this attribute. In the Company XYZ example, we chose Timezone.
  - **Treat as Category:** The timezone type automatically is treated as a category that is conveniently formatted for you.
  - **Account Visibility:** Select the check box(es) if you want other portal users on your account to see and use this attribute and/or edit this attribute.

1. Click **Save Attribute**.

### Information on Attribute

**Attribute Name**

**Attribute Type**  
*What kinds of things does this attribute describe?*

☐ Users ☐ Vehicles ☐ Drivers  
☐ Landmarks ☒ Hierarchy

**Value Type**  
*What type of data will be used to describe things?*

☐ Alerts *Emails or text numbers*  
☐ Alphanumeric *Words or sentences*  
☐ Date *Date only*  
☐ Date+time *Specific date and time*  
☐ Decimal *Decimal numbers*  
☐ Emails *One or more emails*  
☐ Integer *Whole numbers*  
☒ Timezone *Timezone only*

☒ Values will all be from a pre-set list

**Treat as Category**  
*Enter each pre-set value separated with commas.*

US/Hawaii, US/Alaska,  
US/Pacific, US/Arizona,  
US/Mountain,  
US/Central, US/Eastern,

☐ Allow multiple selections from this list

**Account Visibility**

☐ Allow other users to see / use  
☐ Allow other users to edit

**Save Attribute**

1. From the Attribute Definitions grid, click the green check mark icon(s) (e.g., Hierarchy) to assign values.

Timezone	x	x	x	x	<input checked="" type="checkbox"/>	timezone		
Tow Capacity	x	✓	x	x	<input type="checkbox"/>	integer		

1. From the Assign Hierarchy Node Attributes grid, choose the Hierarchy Tree to which this attribute applies. In the Company XYZ example, we chose the “Company XYZ” hierarchy, which has levels for Arizona and Minnesota.
2. Click **Go**.
3. For each node in the selected hierarchy, choose the attribute value (e.g., Timezone) that you want to apply. Values are automatically saved when you either make a selection (for pre-defined lists) or click/tab outside of the field (for text entry).

### Assign Hierarchy Node Attributes: Timezone

Assign values (timezone) to hierarchy for the Timezone attribute.

Hierarchy Tree:

Company XYZ ▼

Node(optional):

Hierarchy Node	Timezone
Company XYZ	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Arizona	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Chandler	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Globe	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Mesa	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Phoenix	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Scottsdale	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Williamson	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input checked="" type="radio"/> US/Arizona <input type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Minnesota	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Brainard	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Mankato	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Minneapolis	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Roseville	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-St. Cloud	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific
-Waseca	<input type="radio"/> Canada/Atlantic <input type="radio"/> US/Alaska <input type="radio"/> US/Arizona <input checked="" type="radio"/> US/Central <input type="radio"/> US/Eastern <input type="radio"/> US/Pacific

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In the Company XYZ example, we also need to set up an Email attribute so that we can designate the email addresses per hierarchy node for where we want to send scheduled reports. Let's create another one in the next set of steps.

► **To create and assign an email hierarchy attribute:**

1. From the the Manage Attributes page at the bottom of the Attribute Definitions grid, click **Attribute** next to Create New.

The Add New Attribute screen window appears.

1. Set the different properties for the attribute:
  - **Attribute Name:** Enter the user-friendly identifier for the attribute (e.g., Email Distribution).
  - **Attribute Type:** Select the check box(es) for each type this attribute supports. In the Company XYZ example, we're setting up this attribute for hierarchy, but it might also apply to users.
  - **Value Type:** Choose the data type that is allowed for this attribute. In the Company XYZ example, we chose Emails.
  - **Treat as Category:** Although you can set up the email value type as a category if you had a few distribution lists from which to choose, it's most often used as free-form.
  - **Account Visibility:** Select the check box(es) if you want other portal users on your account to see and use this attribute and/or edit this attribute.

2. Click **Save Attribute**.

Information on Attribute

Attribute Name

Email Distribution

Attribute Type

What kinds of things does this attribute describe?

☒ Users

☐ Vehicles

☐ Drivers

☐ Landmarks

☒ Hierarchy

Value Type

What type of data will be used to describe things?

☐ Alerts Emails or text numbers

☐ Alphanumeric Words or sentences

☐ Date Date only

☐ Date+time Specific date and time

☐ Decimal Decimal numbers

☒ Emails One or more emails

☐ Integer Whole numbers

☐ Timezone Timezone only

Treat as Category

☐ Values will all be from a pre-set list

Account Visibility

☒ Allow other users to see / use

☐ Allow other users to edit

Save Attribute

1. From the Attribute Definitions grid, click the green check mark icon(s) (e.g., Hierarchy) to assign values.

Email Distribution	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	emails		
Emergency Supplies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	alphanumeric		

1. From the Assign Hierarchy Node Attributes grid, choose the Hierarchy Tree you want to use. In the Company XYZ example, we chose the "Company XYZ" hierarchy, which has levels for Arizona and Minnesota.
2. Click **Go**.
3. For each node in the selected hierarchy, choose the attribute value (e.g., email address) that you want to apply. You can specify one or more email addresses per entry (separated by commas). Values are automatically saved when you either make a selection (for pre-defined lists) or click/tab outside of the field (for text entry).

### Assign Hierarchy Node Attributes: Email Distribution

Assign values (emails) to hierarchy for the Email Distribution attribute.

Hierarchy Tree: Company XYZ ▾

Node(optional):

☐ Alphabetical Order ☐ Hierarchical View

Go

Hierarchy Node	Email Distribution
Company XYZ	charles@xyz.demo
-Arizona	rob@xyz.arizona.demo
-Chandler	shane@xyz.chandler.demo
-Globe	george@xyz.chandler.demo
-Mesa	mark@xyz.mesa.demo
-Phoenix	paul@xyz.phoenix.demo
-Scottsdale	sue@xyz.scottsdale.demo
-Williamson	will@xyz.williamson.demo
-Minnesota	maynard@xyz.minnesota.demo
-Brainard	bridgett@xyz.brainard.demo
-Mankato	millie@xyz.mankato.demo
-Minneapolis	matt@xyz.minneapolis.demo
-Roseville	rich@xyz.roseville.demo
-St. Cloud	steven@xyz.stcloud.demo
-Waseca	wally@xyz.waseca.demo

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Enter values for each Hierarchy Node in the 'Email Distribution' column.

Now you can use this attribute on a **scheduled report** or alert whenever you filter the vehicle list using one of the nodes in your hierarchy. In the following example, when scheduling a fleet utilization report based on Company XYZ vehicles, the timezones in the report will be formatted according to what was specified when applying the attribute, and the report will be sent to the email addresses set up in the hierarchy.

### Fleet Utilization Report

Utilization details on all fleet vehicles.

Vehicle

Company XYZ ▾

Schedule

Monthly ▾

Email Subject

Fleet Utilization Report

Email subject (i.e 'Weekly Speeding Report')

Addresses

Email Distribution ▾ [edit attributes](#)

Choose levels to send reports.

edit hierarchy

☒ base Company XYZ

☒ 1st e.g.Arizona

☒ 2nd e.g.Phoenix

Attributes ▾

Timezones from attr: Timezone ▾

Email hierarchy attributes can also be used when setting up alerts for automatic escalation:

Link: <https://help.nuvo.solutions/docs/about-attributes/using-hierarchy-attributes/> Last Updated: February 11th, 2016

Create new *Idle Time Alert*

Vehicle

Company XYZ

Alert Subject

IDLE ALERT

Addresses

Email Distribution

[edit attributes](#)

Notify Driver

☐ 15 min note:

to [current driver](#) or the [contact info](#) for the vehicle

In-Cab Notify

☒ None ☐ Buzzer ☐ Light ☐ Output1

Idle Limit

Minutes a vehicle must be idling before an alert is triggered

☒ 45 min. base Company XYZ

☒ 30 min. 1st e.g.Arizona

☒ 15 min. 2nd e.g.Phoenix

Alert will be sent once after this limit and not repeated