

# enlighten 5.0

## enCapture User Guide

### Geospatial Engineering Solutions



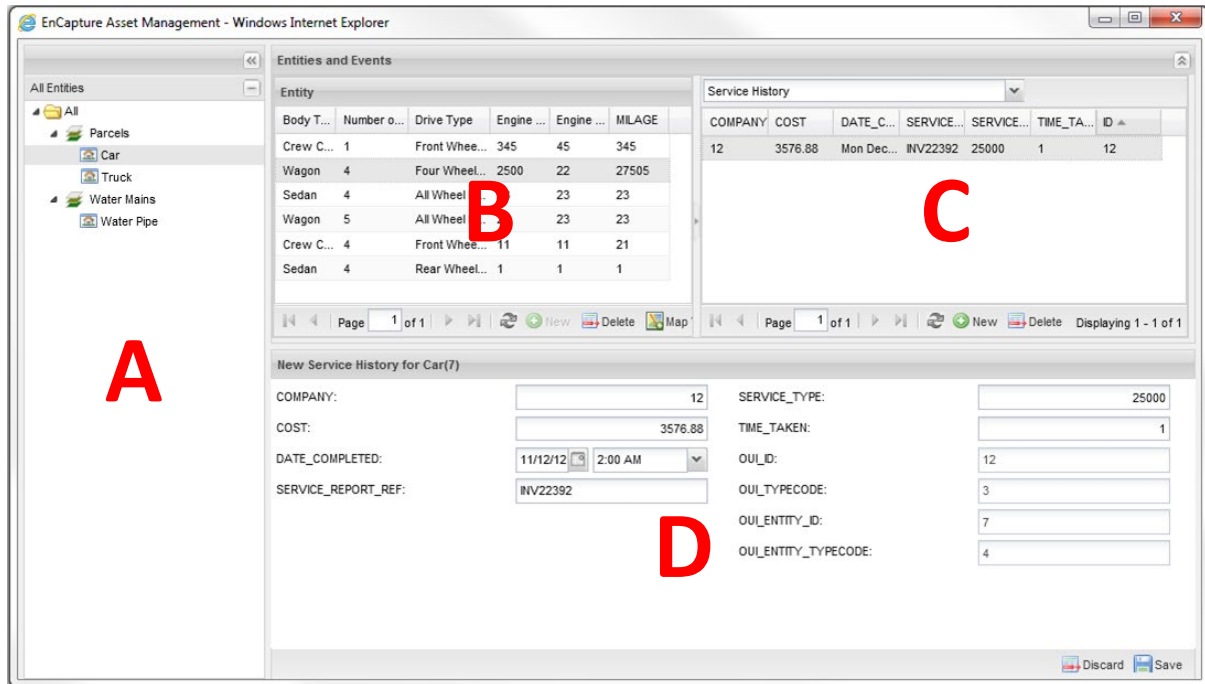
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## Key Terms

- **Entity:** Any object that is defined by attribute data. Examples of entities include water pipes, cars, and buildings.
- **Entity Instance:** A specific occurrence (record) of an entity.
- **Event:** An action that has or will occur to an entity. Examples of events include routine services, compliance tests, and inspections.
- **Event Instance:** A specific occurrence of a particular event (i.e. a single record in an event table).

The enCapture user environment is where entity and event attribute information is viewed, created and modified. An overview of the user environment is displayed below with definitions of each of the different sections and their purpose.



**Figure 1. enCapture User Environment**

The sections of the user environment shown above are:

- **A - Entity list:** Shows a list of the available entities.
- **B - Entity list view panel:** Shows an abbreviated view of the selected entity's records.
- **C - Event list view panel:** Shows an abbreviated view of the selected event's records for the current entity instance.
- **D - Detail view panel:** Shows a detailed view of the selected record's attributes. This is where users view and enter attribute information.

To access the enCapture user environment, log on to enlighten and select the enCapture button located on the enlighten toolbar.





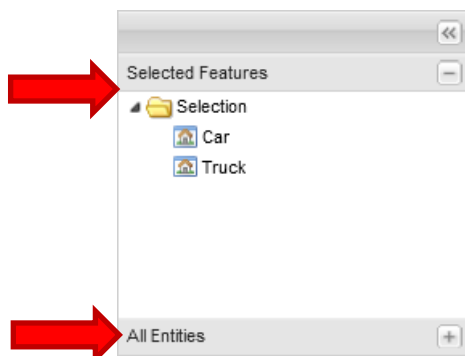
An entity is any object that is defined by attribute data. Examples of entities include water pipes, cars, buildings etc. They provide the interface between enCapture and your asset databases. Entity information is managed through sections A, B and D (*Figure 1*) of the enCapture user environment.

## Viewing Entity Instances

The entity list panel of the enCapture user environment (section A in *Figure 1*) contains a list of the entities available to the user. This panel is split into two sections: 'All Entities' and 'Selected Features'. The 'All Entities' section shows a list of ALL the enCapture entities under each of the layers they are related to. The 'Selected Features' section displays a list of entities related to the features currently selected in the enlighten map.

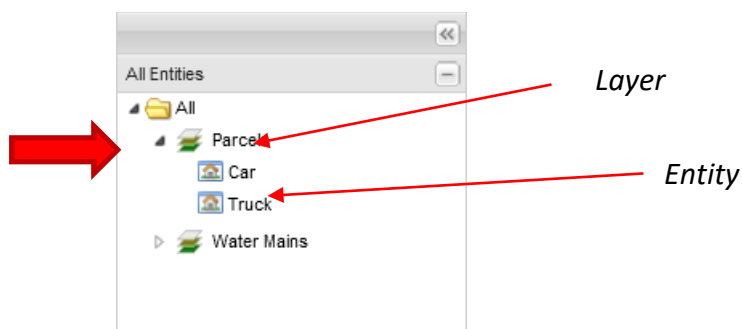
To view entity instances, follow the steps listed below.

1. Press the enCapture button  located on the Advanced Toolbar. This will open the enCapture user environment (*Figure 1*). If you had features selected in your enlighten map, the entity list panel (section A in *Figure 1*) will display both the 'Selected Features' and 'All Entities' sections. If you did not have any features selected, only the 'All Entities' section will display in the entity list panel.



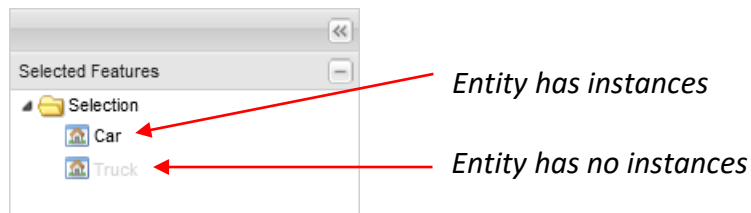
**Figure 2. Entity List**

2. In either the 'Selected Features' section or the 'All Entities' section, select the entity that you wish to view instances of.
  - If doing this through the 'All Entities' section, you will have to expand the layer that the entity is related to before you will be able to select the entity.



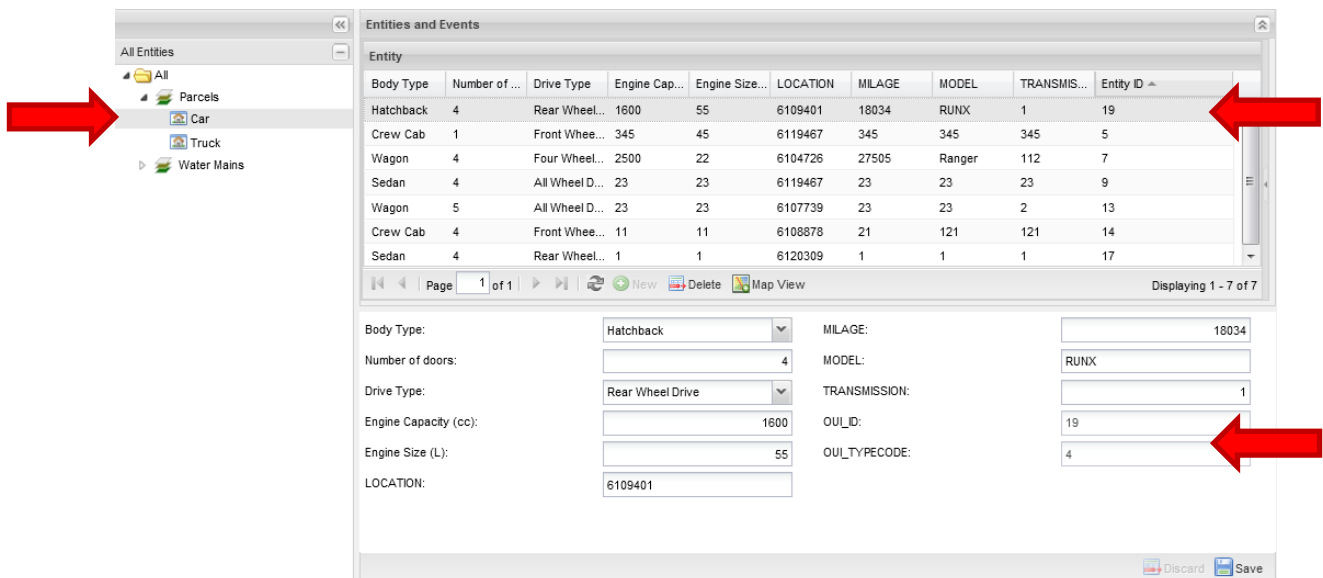
**Figure 3. All Entities in Entity List**

- If going through the 'Selected Features' section, the entity name may appear with grey text or black text. Grey text means that there are no instances of that entity in the current selection. Black text means that there are instances of that entity in the current selection.



**Figure 4. Selected Features in Entity List**

- When you select the required entity in the entity list panel, the entity's instances will appear in the list view panel (section B of *Figure 1*), the first of which will have its details displayed in the detail view panel (section D of *Figure 1*).
  - If you have selected the entity in the 'Selected Features' section of the entity list panel, only those instances related to the currently selected items in the enlighten map will appear in the list view panel. If you have selected the entity in the 'All Entities' section of the entity list panel, ALL of the entity's instances will load in the list view panel.
3. In the entity list view panel, select the entity instance you wish to view. This will load the details of the selected instance into the detail view panel (section D of *Figure 1*).



**Figure 5. Selected Entity Information**

- If you require more information about any attribute, hover your cursor over the attribute value and a further description will be displayed.

|                       |                                              |               |
|-----------------------|----------------------------------------------|---------------|
| Body Type:            | <input type="text" value="Wagon"/>           | MILAGE:       |
| Number of doors:      | <input type="text" value="5"/>               | MODEL:        |
| Drive Type:           | <input type="text" value="All Wheel Drive"/> | TRANSMISSION: |
| Engine Capacity (cc): | <input type="text"/>                         | ID:           |
| Engine Size (L):      | <input type="text" value="23"/>              | OUI_TYPECODE: |
| LOCATION:             | <input type="text" value="6107739"/>         |               |

Drive type of the vehicle

**Figure 6. Cursor Display**

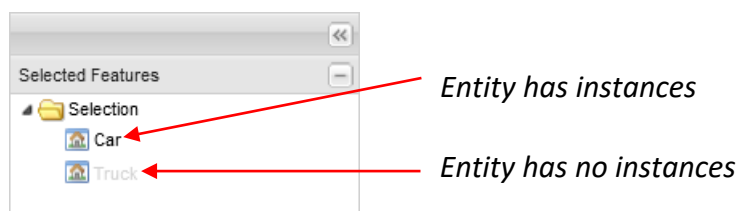
## Creating Entity Instances

The entity list panel of the enCapture user environment (section A in *Figure 1*) contains a list of the entities available to the user. Users with the appropriate permission levels can create instances of entities.

Entity instances can only be created through the 'Selected Features' section of the user environment, so the feature you wish to create an instance on must be selected in the enlighten map before running enCapture.

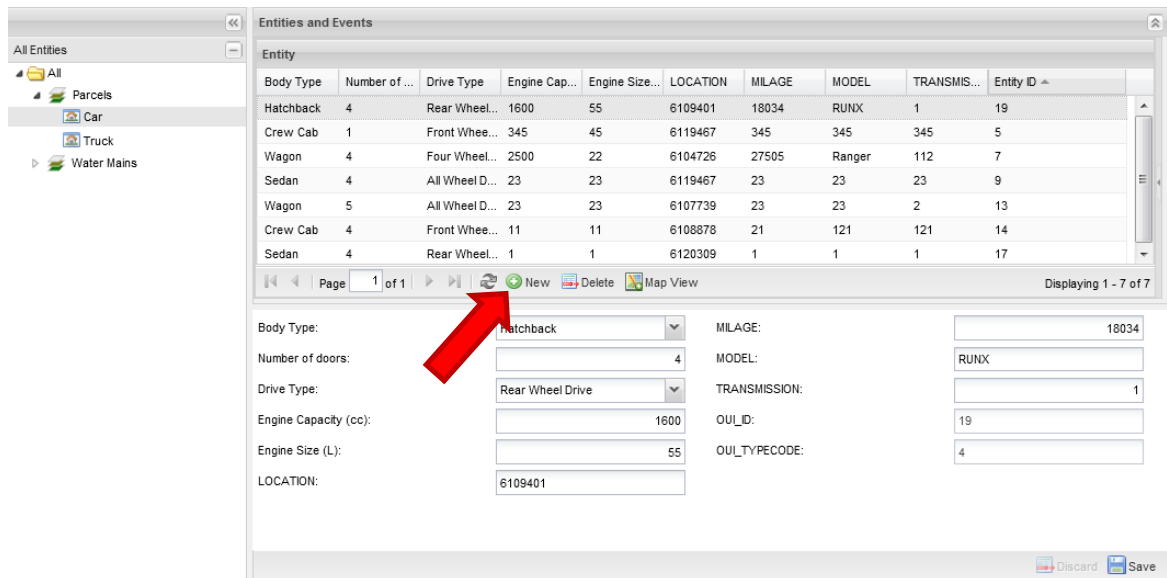
Complete the steps listed below to create a new entity instance.

1. Select the feature you wish to link to an entity instance in the enlighten map.
2. Press the enCapture button  located on the Advanced Toolbar. This will open the enCapture user environment (*Figure 1*).
3. In the 'Selected Features' section of the entity list panel (section A in *Figure 1*), select the entity that you wish to create an instances of.
  - The entity names may appear with grey text or black text. Grey text means that there are no instances of that entity on the current selection. Black text means that there are instances of that entity in the current selection.



**Figure 7. Selected Features**

4. With the required entity type selected in the 'Selected Features' section, press the 'New'  button located at the bottom of the entity list view panel. This will present you with the 'New Entity' dialog.

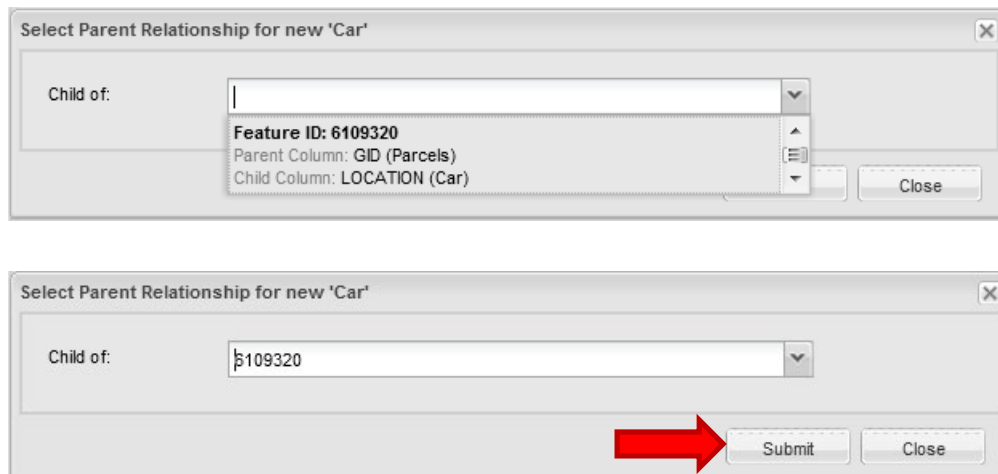


**Figure 8. Creating New Entity Features**

- The 'New Entity' dialog requires that you define the spatial feature to which the new entity instance belongs. To do this, press the arrow button at the end of the dropdown box and you will be presented with a list of the ID's of the features that are currently selected in the map.

Below each feature ID (bold) are the details of the relationship between the layer and the entity. The 'Parent Column' lists the column from the layer's underlying data table that the 'Feature ID' value (bold) is coming from. The 'Child Column' lists the entity column to which the displayed 'Feature ID' value will be written. This defines how the entity and the layer are related.

- Select the 'Feature ID' of the required map feature and press the 'Submit' button.



**Figure 9. Selecting Parent Relationships**

7. You will now be presented with a new entity form in the detail view panel (section D of *Figure 1*) of the enCapture user environment. This form will contain any default values set up by your enCapture administrator, plus the ID of the map feature selected in the previous step.

If you require more information about any attribute, hover your cursor over the attribute value and a further description will be displayed.

|                       |                  |               |
|-----------------------|------------------|---------------|
| Body Type:            | Hatchback        | MILAGE:       |
| Number of doors:      | 4                | MODEL:        |
| Drive Type:           | Rear Wheel Drive | TRANSMISSION: |
| Engine Capacity (cc): | 1600             | OUI_ID:       |
| Engine Size (L):      | 55               | OUI_TYPECODE: |
| LOCATION:             | 6109401          |               |

Engine capacity in cubic centimetres

**Figure 10. Curser Display**

8. Enter the required attribute information and press the 'Save'  Save button located in the lower right corner of the detail view panel.

|                       |                 |               |       |
|-----------------------|-----------------|---------------|-------|
| Body Type:            | Wagon           | MILAGE:       | 23443 |
| Number of doors:      | 4               | MODEL:        | 2     |
| Drive Type:           | All Wheel Drive | TRANSMISSION: | 3     |
| Engine Capacity (cc): | 1800            | OUI_ID:       |       |
| Engine Size (L):      | 65              | OUI_TYPECODE: | 4     |
| LOCATION:             | 6109401         |               |       |

 Save

**Figure 11. Entity Attribute Information**

- If the instance saves successfully, you will be presented with a green 'Save Successful' message in the detail view panel (section D of *Figure 1*) of the enCapture user environment. If the instance does not save, a message will display giving the reason for the failure.

## Modifying Entity Instances

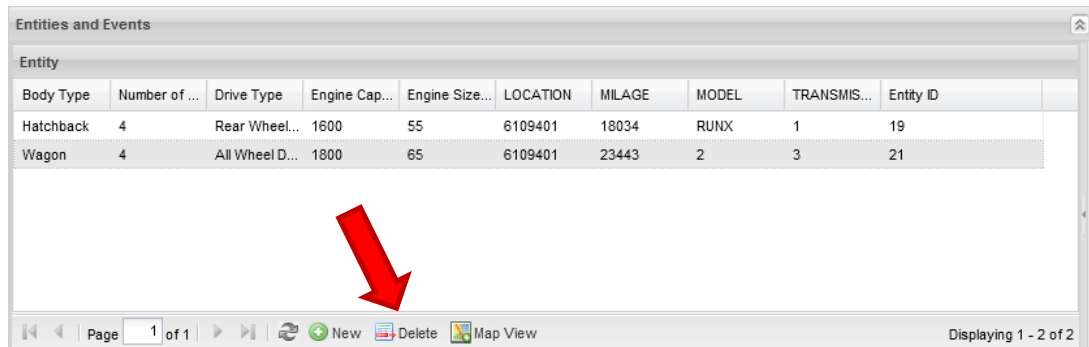
To modify the attribute values of an existing entity instance, follow the steps outlined in the 'Viewing Entity Instances' section of this document, with the following additional step:

1. With the instance you wish to modify in the detail view panel (section D of *Figure 1*), modify the required attribute values and press the 'Save'  Save button located in the lower right corner of the detail view panel. If the instance saves successfully, you will be presented with a 'Save Successful' message in the task bar of the enCapture user environment. If the instance does not save, a message will display giving the reason for the failure.

## Deleting Entity Instances

To delete an entity instance, follow the steps outlined in the 'Viewing Entity Instances' section of this document, with the following additional step:

1. With the instance you wish to delete selected in the list view panel, press the 'Delete'  button located at the bottom of the entity list view panel. This will delete the entity instance from your database(s) and remove it from the entity list view panel of enCapture.



**Figure 12. Deleting Entities**

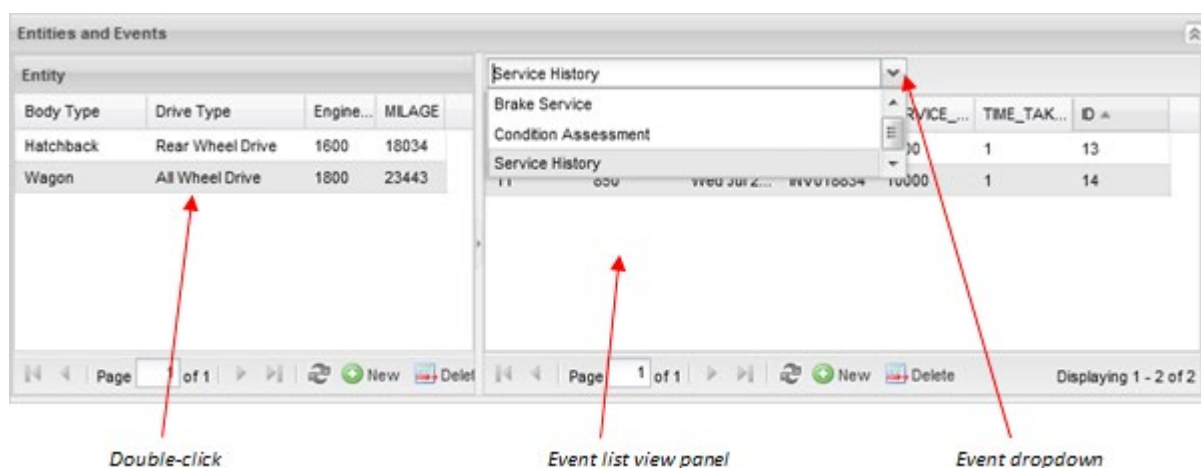


An event is an action that has or will occur on an entity. Examples of events include routine services, compliance tests, and inspections. Events are managed through sections C and D (*Figure 1*) of the enCapture user environment.

## Viewing Event Instances

To view the record of events that have occurred on a specific entity instance, follow the steps listed below.

1. Select the required entity instance by completing the steps outlined in the 'Viewing Entity Instances' section of this document.
2. Double-click on the required entity instance in the entity list view panel. This will open the event list view panel (section C of *Figure 1*).



**Figure 13. Event List View Panel**

3. Select the applicable event from the dropdown list at the top of the event list view panel. This will populate the event list view panel with all the events of the selected type that apply to the selected entity instance.
4. To view the details of a particular event instance, select the applicable record in the event list view panel. This will load the event instance details into the detail view panel (section D of *Figure 1*).

Entities and Events

Entity

| Body Type | Drive Type       | Engine... | MILAGE |
|-----------|------------------|-----------|--------|
| Hatchback | Rear Wheel Drive | 1600      | 18034  |
| Wagon     | All Wheel Drive  | 1800      | 23443  |

Service History

| COMPANY | COST | DATE_CO...   | SERVICE_... | SERVICE_... | TIME_TAK... | ID ▲ |
|---------|------|--------------|-------------|-------------|-------------|------|
| 11      | 390  | Mon May ...  | INV003449   | 5000        | 1           | 13   |
| 11      | 850  | Wed Jul 2... | INV018834   | 10000       | 1           |      |

Page 1 of 1

New

Delete

Page 1 of 1

New

Delete

Displaying 1 - 2 of 2

Service History(14) for Car(21)

COMPANY:

11

SERVICE\_TYPE:

10000

COST:

850

TIME\_TAKEN:

1

DATE\_COMPLETED:

29/07/10 5:22 AM

OUL\_ID:

14

SERVICE\_REPORT\_REF:

INV018834

OUL\_TYPECODE:

3

OUL\_ENTITY\_ID:

21

OUL\_ENTITY\_TYPECODE:

4

Discard

Save

**Figure 14. View Event Instance**

- If you require more information about any attribute, hover your cursor over the attribute value and a further description will be displayed.

New Service History for Car(21)

COMPANY:

COMPANY NAME

COST:

DATE\_COMPLETED:

SERVICE\_REPORT\_REF:

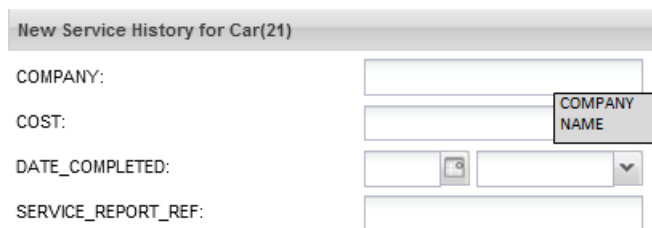
**Figure 15. Cursor Display**

## Creating Event Instances

Users with appropriate permission levels can create instances of events. The process for doing this is detailed below.

To create an instance of an event, complete the first three steps of the 'Viewing Event Instances' section, then carry out the additional steps listed below.

1. With the required entity instance and event type selected, press the 'New'  button located at the bottom of the event list view panel. This will present you with a new event instance form in the detail view panel (section D of *Figure 1*) of the enCapture user environment. This form will contain any default values set up by your enCapture administrator.
  - If you require more information about any attribute, hover your cursor over the attribute value and a further description will be displayed.

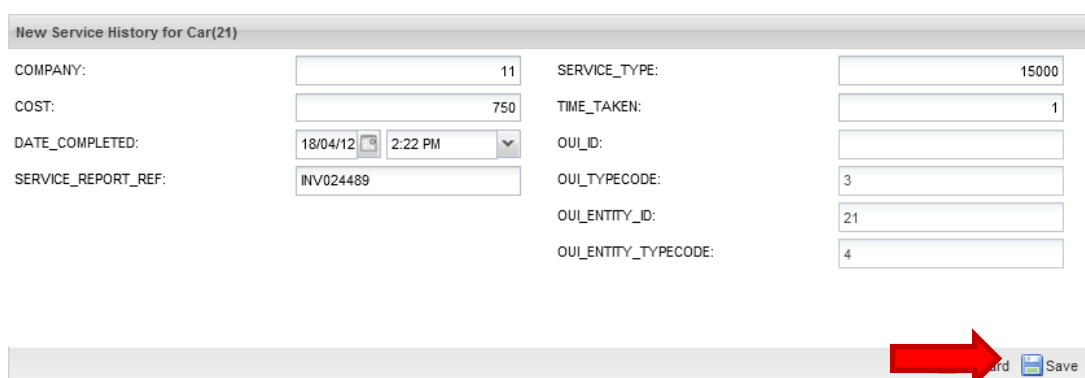


New Service History for Car(21)

|                     |                      |                      |
|---------------------|----------------------|----------------------|
| COMPANY:            | <input type="text"/> |                      |
| COST:               | <input type="text"/> | COMPANY NAME         |
| DATE_COMPLETED:     | <input type="text"/> | <input type="text"/> |
| SERVICE_REPORT_REF: | <input type="text"/> |                      |

**Figure 16. Cursor Display**

2. Enter the required attribute information and press the 'Save'  button located in the lower right corner of the detail view panel.



New Service History for Car(21)

|                     |                                                                            |                      |                                    |
|---------------------|----------------------------------------------------------------------------|----------------------|------------------------------------|
| COMPANY:            | <input type="text" value="11"/>                                            | SERVICE_TYPE:        | <input type="text" value="15000"/> |
| COST:               | <input type="text" value="750"/>                                           | TIME_TAKEN:          | <input type="text" value="1"/>     |
| DATE_COMPLETED:     | <input type="text" value="18/04/12"/> <input type="text" value="2:22 PM"/> | OUI_ID:              | <input type="text"/>               |
| SERVICE_REPORT_REF: | <input type="text" value="INV024489"/>                                     | OUI_TYPECODE:        | <input type="text" value="3"/>     |
|                     |                                                                            | OUI_ENTITY_ID:       | <input type="text" value="21"/>    |
|                     |                                                                            | OUI_ENTITY_TYPECODE: | <input type="text" value="4"/>     |

**Figure 17. Saving Attribute Information**

- If the instance saves successfully, you will be presented with a 'Save Successful' message in the task bar of the enCapture user environment. If the instance does not save, a message will display giving the reason for the failure.

## Modifying Event Instances

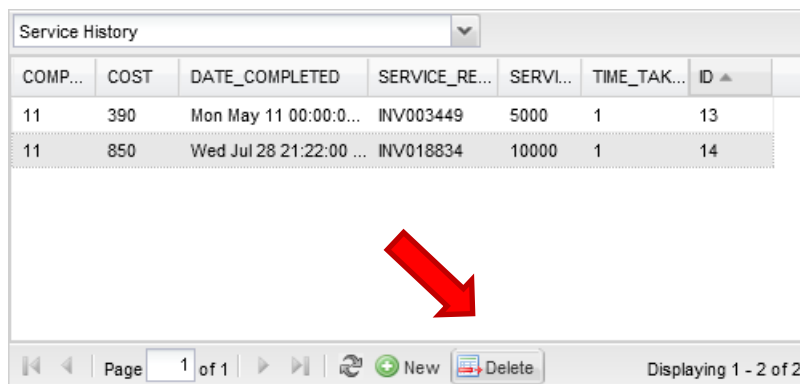
To modify the attribute values of an existing event instance, complete the steps outlined in the 'Viewing Event Instances' section of this document, with the following additional step:

1. With the instance you wish to modify in the detail view panel (section D of *Figure 1*), modify the required attribute values and press the 'Save'  Save button located in the lower right corner of the detail view panel. If the instance saves successfully, you will be presented with a 'Save Successful' message in the task bar of the enCapture user environment. If the instance does not save, a message will display giving the reason for the failure.

## Deleting Event Instances

To delete an event instance, follow the steps outlined in the 'Viewing Event Instances' section of this document, with the following additional step:

1. With the instance you wish to delete selected in the list view panel, press the 'Delete'  Delete button located at the bottom of the event list view panel. This will delete the event instance from your database and remove it from the list view panel of enCapture.



**Figure 18. Deleting Event Instances**

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