INTRODUCTION

Recently to support the VIPA-500 project, a large number of cases were directly imported from the UD-10 data into Vanessa. The UD-10 data included harmful event data comprised of both non-collision (e.g. “lost control”, “crossed centerline”) and collision (e.g. “collision with vehicle in transport”) events.

Accomodating this harmful event data required changes in both the Vanessa database structure and in the user interface. As soon as the changes to the database structure had been completed, data were imported and an initial set of changes were made at the user interface level so that the new data could be viewed within the web application. However, editing of the new harmful events had not yet been implemented in a streamlined manner in the web application.

This document provides an outline of how to create, edit, and delete harmful events within Vanessa now that the code refactoring has been substantially completed.

CREATING NON-COLLISION EVENTS

Suppose we have an incident where a woman on a bicycle loses control on a downhill stretch of road, which results in her colliding with the rear of a Ford Escort. The flustered driver of the Escort then runs into a fire hydrant. We begin by creating the incident entities as follows:

Now we want to add the harmful events. Begin by clicking on the “impact” icon next to the woman on the bicycle icon:
This will bring up the *Create New Harmful Event* form:

![Create New Harmful Event form](image)

Let’s add *lost control* as the first non-collision harmful event:

![Create New Harmful Event form](image)

Since this is a non-collision event, we will only fill in a *harmful event* but we will leave *Damaging Entity* empty. In fact, the software will automatically disable the *Damaging Entity* input box as soon as we have tabbed out of the harmful event box:

![Create New Harmful Event form](image)
Clicking on Save then creates the non-collision event as expected:

For the sake of example, we will add one additional non-collision event. Be sure to manually increment the sequence ordinal at the top of the form before saving, as these ordinals are not incremented automatically:

Now we have:
Now we will add the bicyclist running into the back of the Escort. Again, we start by clicking on the impact icon of the bicyclist. We then choose *collision with vehicle in transit* (code 17) and then we specify the Escort as the damaging entity:

Note that a *harmful event* code is now always required for collision and non-collision events alike. Also, it would be a good idea to change the sequence ordinal to 3.

Here is the result:
Finally, we can now click on the impact icon for the Ford Escort, specify collision with fire hydrant (code 43 results in the box), choose the fire hydrant as the damaging entity, and press save:

![Sequence](image)

And we now have this:

![Diagram](image)

If we now click at the center of the collision labels, we can enter the impact-on-pedestrian (IOP) or impact-on-vehicle (IOV) entries respectively. Once we have added the relevant data in the respective IOP or IOV forms, then the labels on the diagram will respect this more specific information:

![Updated Diagram](image)
EDITING ENTRIES

To edit entries at the entity level, for example to change the sequence order, to change the code for the harmful event, or to change the damaging entity, just click on the impact icon containing the sequence number on the labels on the left. For example, to change the downhill runaway event to something else, click on the 2 highlighted in the image shown here:

![Diagram showing editing entries](image)

This will bring up the same form we saw above, except now the title will say Edit Harmful Event instead of Create New Harmful Event.

DELETING ENTRIES

To delete an entry, just click on the small (X) on the right side of the labels. You will be asked to confirm the deletion twice:

![Diagram showing deleting entries](image)

*** fin ***