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Health Santé
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Message ReMixer User Manual

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1 Introduction

1.1 User Guide Purpose

The purpose of this document is to provide users with information to understand and use the Message ReMixer features as well as to provide step-by-step guidelines for users to constrain and annotate messages.



The screenshots for this user guide have been produced using Mozilla Firefox 15.0.1 as the web browser on a Windows 7 machine. In some cases, the screens may look slightly different than for other browsers and operating systems.

1.2 Target Audience and Users

The target audience of this document is the business and technical users responsible for administering the use of the Message ReMixer as well as those users who are constraining and annotating static models that use pan-Canadian standards.

1.3 Scope of User Guide

The scope of the activities described in this document is limited to the administration of the Message ReMixer and to its use for constraining and annotating static models.

Deployment of the Message ReMixer is out of scope for this document.



Deployment of the Message ReMixer is described in Redmine.

1.4 Purpose of Message ReMixer

The purpose of the Message ReMixer is to constrain or annotate message components such as classes, associations or attributes within messages or interactions. The tool can also be used to maintain existing constraints or annotations.

Messages and interactions are typically constrained and annotated for the purposes of publishing information to stakeholders such as vendors. The output from the constraints and annotations are used to generate jurisdictional specifications and other artifacts that can be used with other tools. For example, the MIFs generated can be used in the HL7 V3 Instance editor to create valid jurisdictional instance messages.

In the context of pan-Canadian specifications, these constraints and annotations are further constraints on the pan-Canadian specifications as these specifications are already constraints on the HL7 International (or Universal) Standard.

Message constraint rules need to be taken into account when creating test messages and validating message instances.

1.5 Relationship to other Infoway tools

The Message ReMixer is one of a suite of tools developed by Canada Health Infoway.

This tool uses XML files generated from the Message Builder Generator tool as the input for loaded Message Sets.

The Delta Set output from the Message ReMixer is an XML file that is converted via an xslt transformation to a “vmif” file that can be processed by the HL7 Generator tool to produce the artifacts published in pan-Canadian specifications.

1.6 Definitions

Term	Icon	Definition
Administrator		Is a user who has privileges within the application to: • Load Message Sets • Populate mappings • Configure the Login options • Create delta sets • Add Deltas • Download Delta Sets • Run reports
Annotation		Changes to the descriptions or notes attached to elements
Constraint		Changes to properties such as conformance strengths (optional, populated and mandatory), cardinality, business names of data elements such as attributes and associations.
Define		Allows a user to change for attributes and associations: • Cardinality • Conformance level • Datatype • Domain source • Domain type • Vocabulary strength • Fixed value • Default value • Length • Update mode values
Delta		A change (constraint or annotation) applied to an element in a message.

Term	Icon	Definition
Delta Set		A collection of changes (or deltas) applied to a message set.
Document		Allows a user to add or change: • Business Name • Annotations
Message Set		A collection of artifacts of interest to which constraints and annotations will be added. For example, a message set may include all artifacts related to a specific pan-Canadian specification (i.e. R02.04.00) or may include all (or a subset of) artifacts related to a domain within a pan-Canadian specification (i.e. Pharmacy within R01.04.3)
Remove		Allows a user to: • Remove a data element
User		Is a user who has privileges within the application to: • Create delta sets • Add Deltas • Download Delta Sets • Run reports

2 Starting Message ReMixer

2.1 Login

To use the Message ReMixer

1. Open the URL (<https://infoapp.infoway-inforoute.ca/remixer/>) in a Web Browser



Users should use Internet Explorer 8, Firefox, Chrome or Safari as browsers.

2. Enter your User ID and password
3. Click "Login"

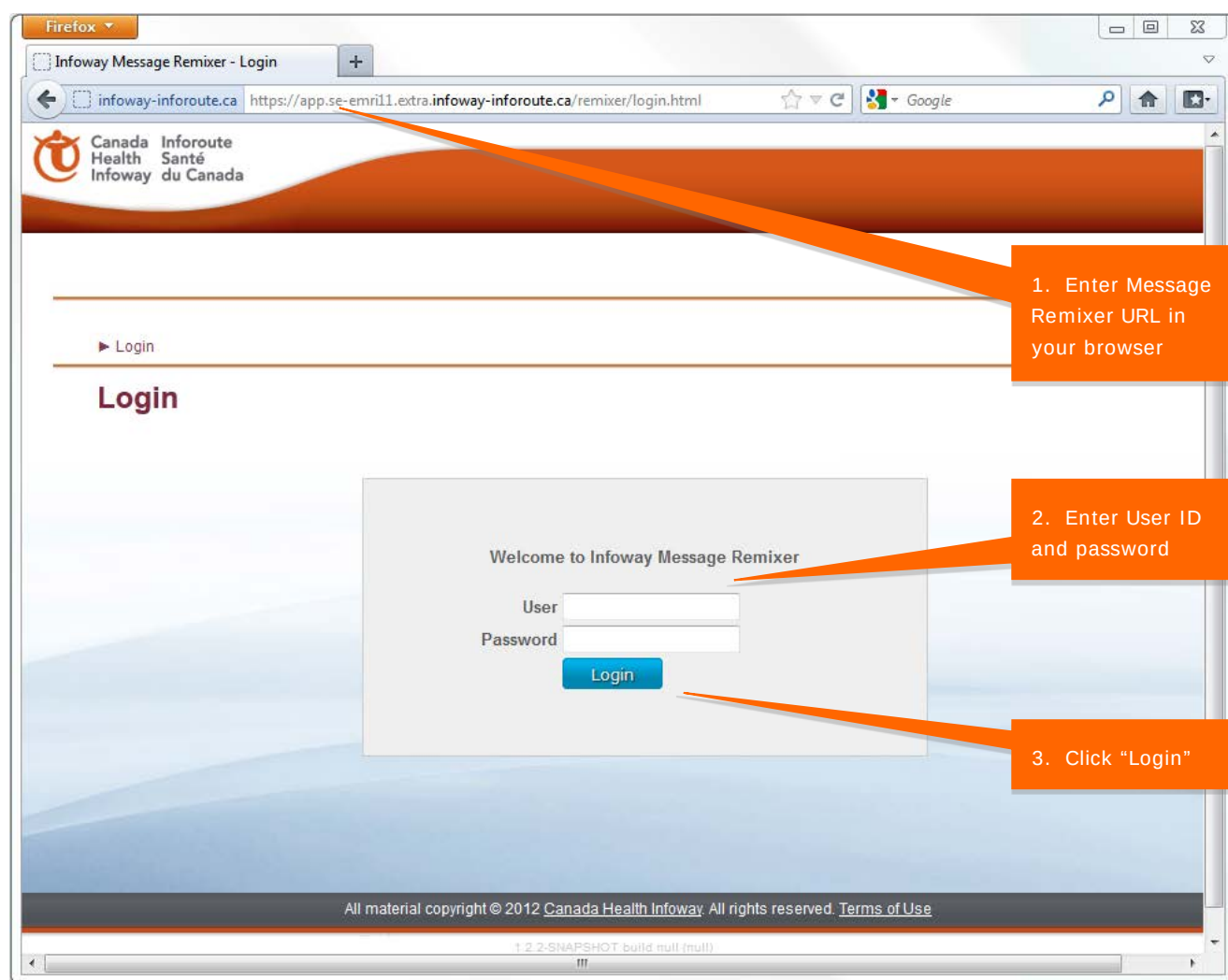


Figure 1 – Message ReMixer Login Page

3 Message ReMixer Administration



This section is intended to be used by Infoway administrative members only. General users will not be given access to the administrative functions and can safely skip this section of the document.

3.1 Description

Within Message ReMixer, the administrator can:

- Create Delta Sets
- Perform Admin functions

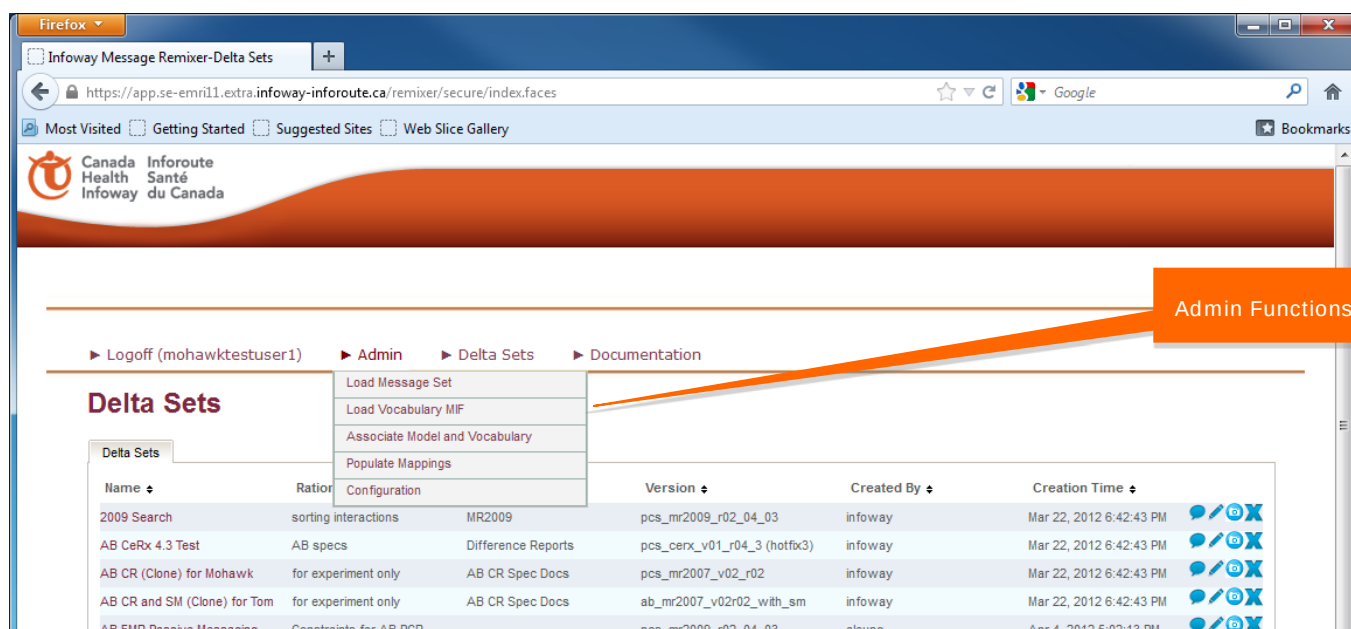


Figure 2 – Administrative Menu

3.2 To Create Delta Sets

See Section 4 Create or Edit a Delta Set for user guidelines to create Delta Sets.

3.3 To Perform Administrative Functions

The administrative functions include:

- Load Message Set
- Load Vocabulary MIF
- Associate Model and Vocabulary
- Populate Mappings
- Configuration

3.3.1 To Load Messages Sets and Images

An initial setup is required to load or refresh the pan-Canadian HL7 message sets of interest. From this menu the administrator can Upload Message Set and Attach Images.

- Load Message Set – allows the user to load pan-Canadian specifications files of interest or to refresh existing files. The Message Set is an XML file that is generated from the Infoway Message Builder Generator tool. Attach Images – allows the user to attach images such as pan-Canadian Visio Model images.
- Attach Images – allows the user to attach images such as pan-Canadian Visio Model images.

1. Click on “Load Message Set”
2. To load message set:
 - a. Click Browse to select the location of the message set files to be loaded.
 - b. Select the <drive>\<directory> location. An XML file will be selected.
 - c. Click Load Message Set button.
3. To attach images:
 - a. From the drop-down, select the version of the Message Set the images relate to.
 - b. Click Browse to locate the images to be loaded.
 - c. Select the <drive>\<directory>\<file> location. The images to be loaded will be loaded as a “zip” file. The names of the images within this file will be in the format <artifact identifier.jpeg> (for example, PORX_MT060130CA.jpeg).
 - d. Click Attach Images.

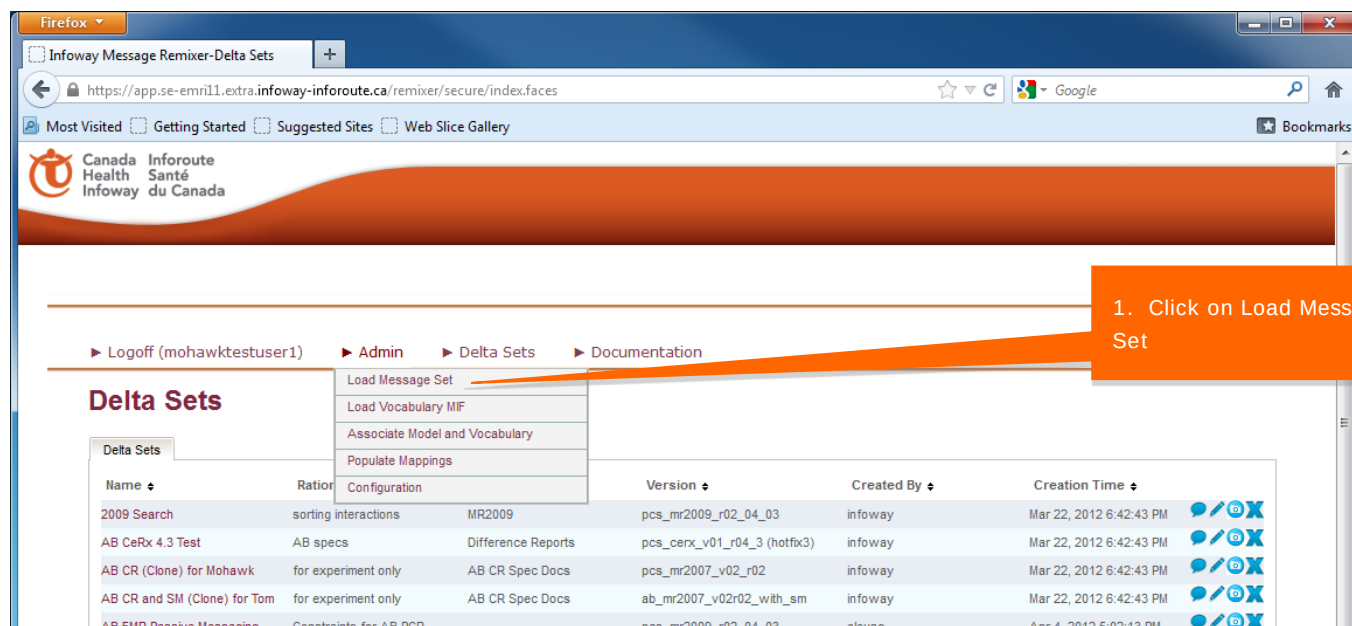


Figure 3 - Load Message Set

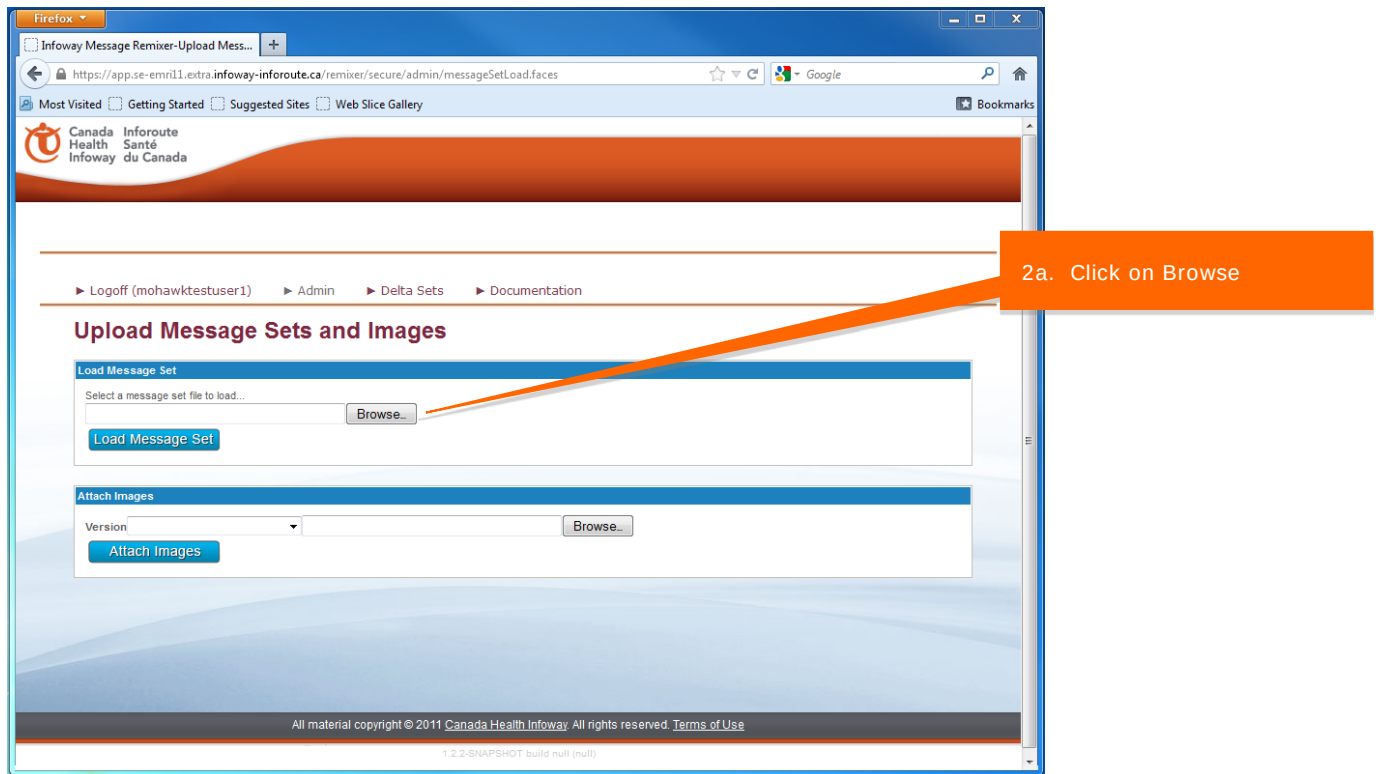


Figure 4 - Choose File for Message Set

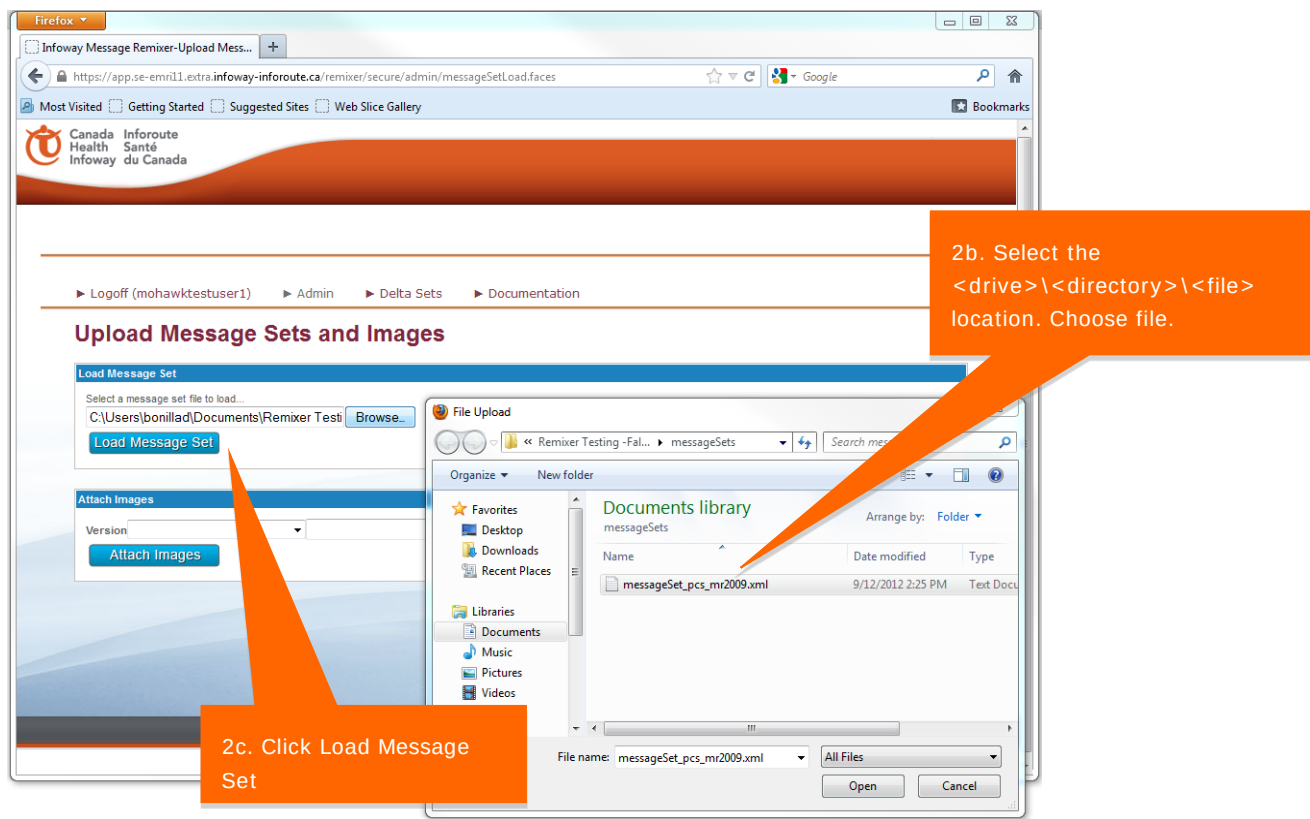


Figure 5 – Select XML file to be loaded

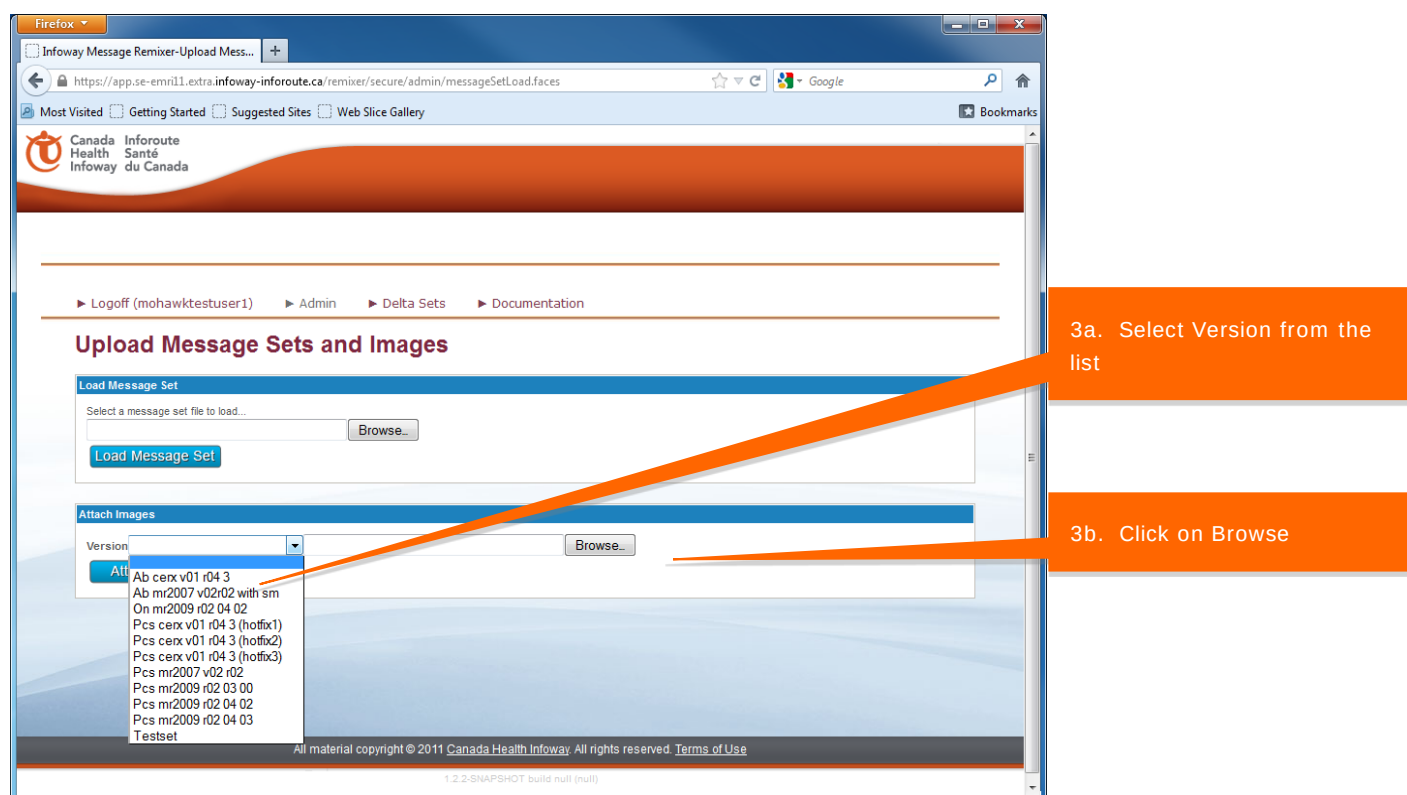


Figure 6 – Attach Images

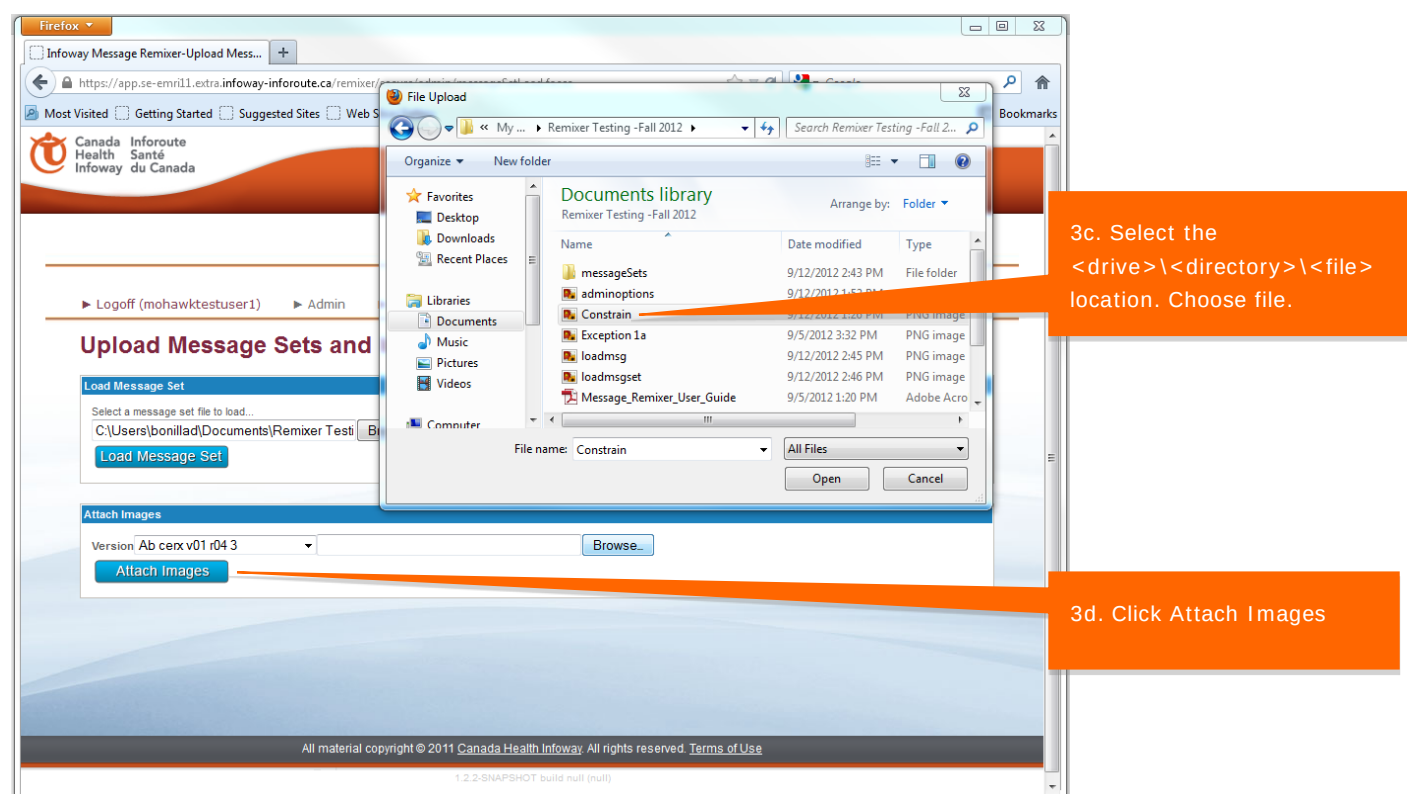


Figure 7 – Select File

3.3.2 To Load Vocabulary MIF

From this menu the administrator can upload Vocabulary MIFs.

1. Click on Load Vocabulary MIF option from the Admin list.
2. Click Browse to select the file.
3. Select the <drive>\<directory>\<file> location. Choose file.
4. Click Load Vocabulary button.

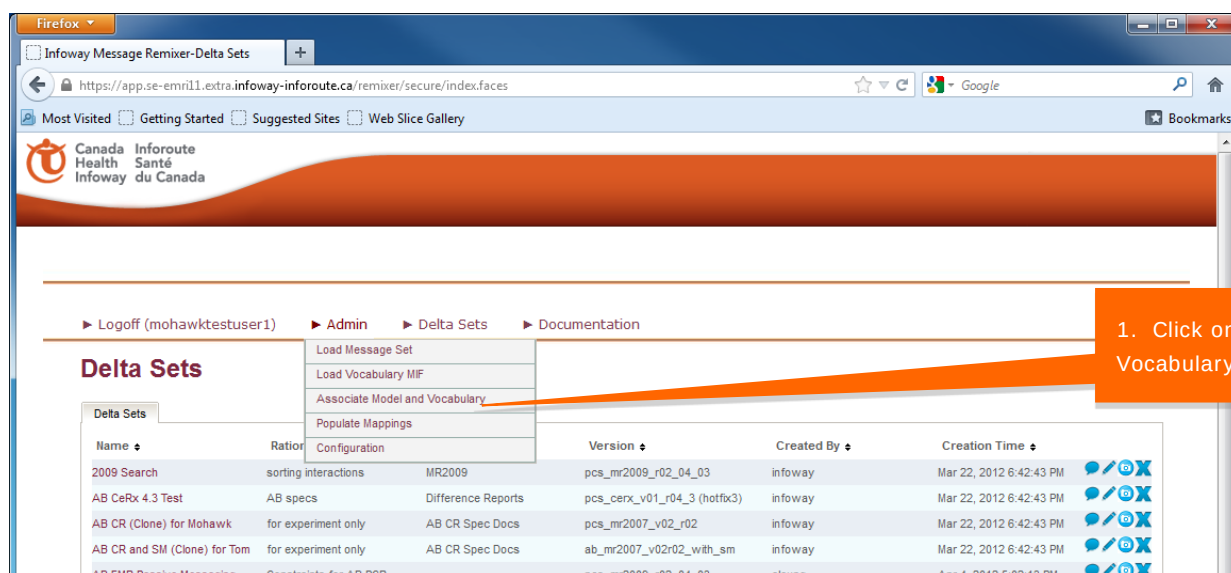


Figure 8 – Load Vocabulary MIF

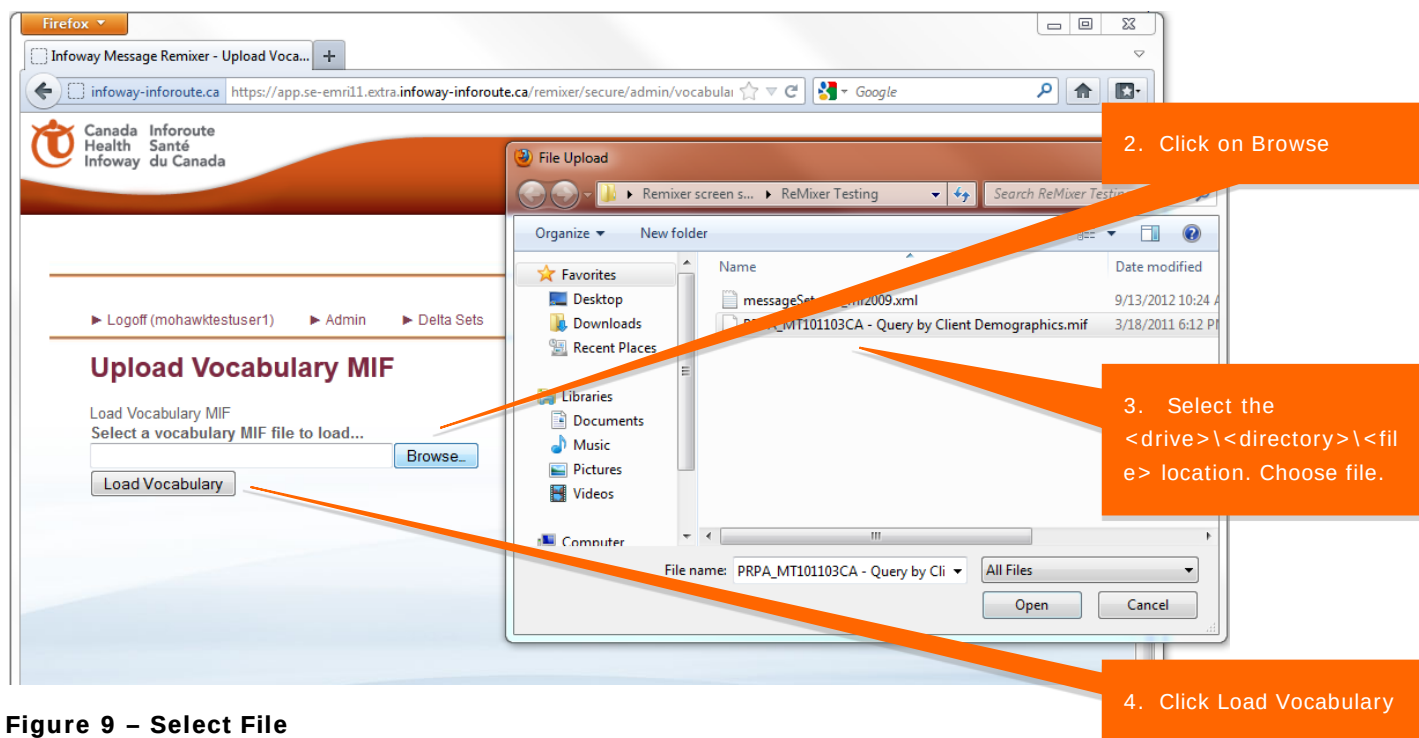


Figure 9 – Select File

3.3.3 Associate Model and Vocabulary

1. Click on Associate Model and Vocabulary.
2. Select Message Set from the drop down list.
3. Select Vocabulary from the drop down list.
4. Click Save.

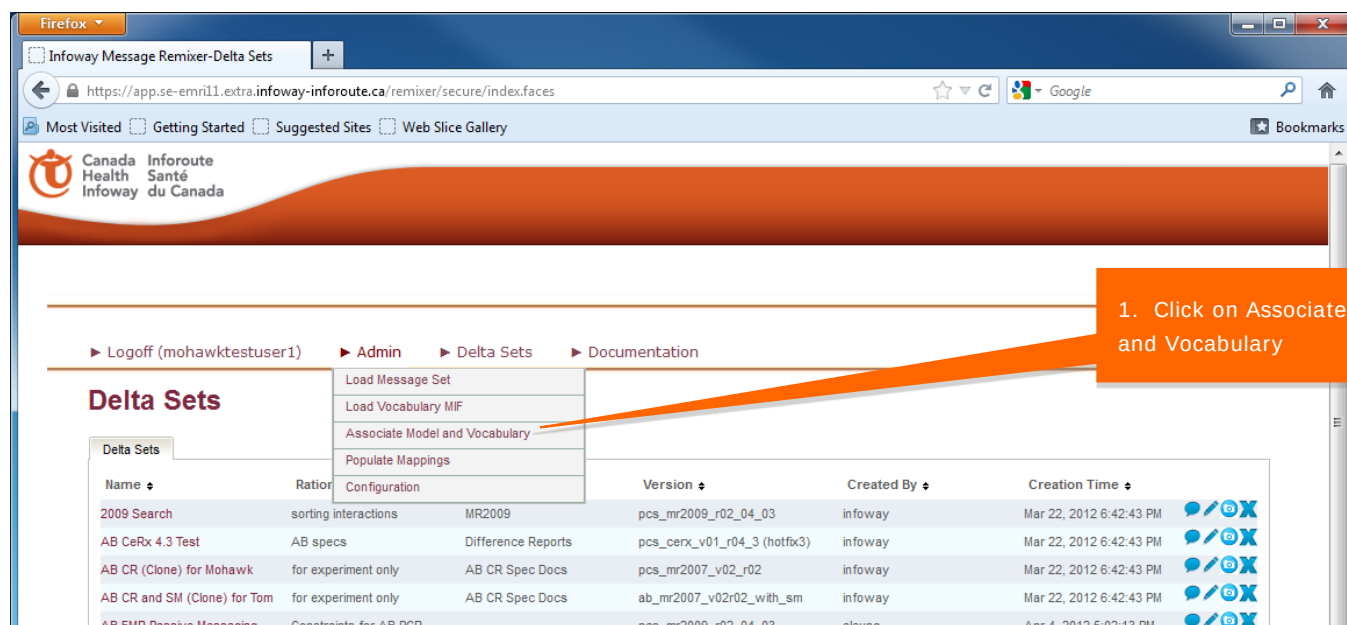


Figure 10 – Associate Model and Vocabulary

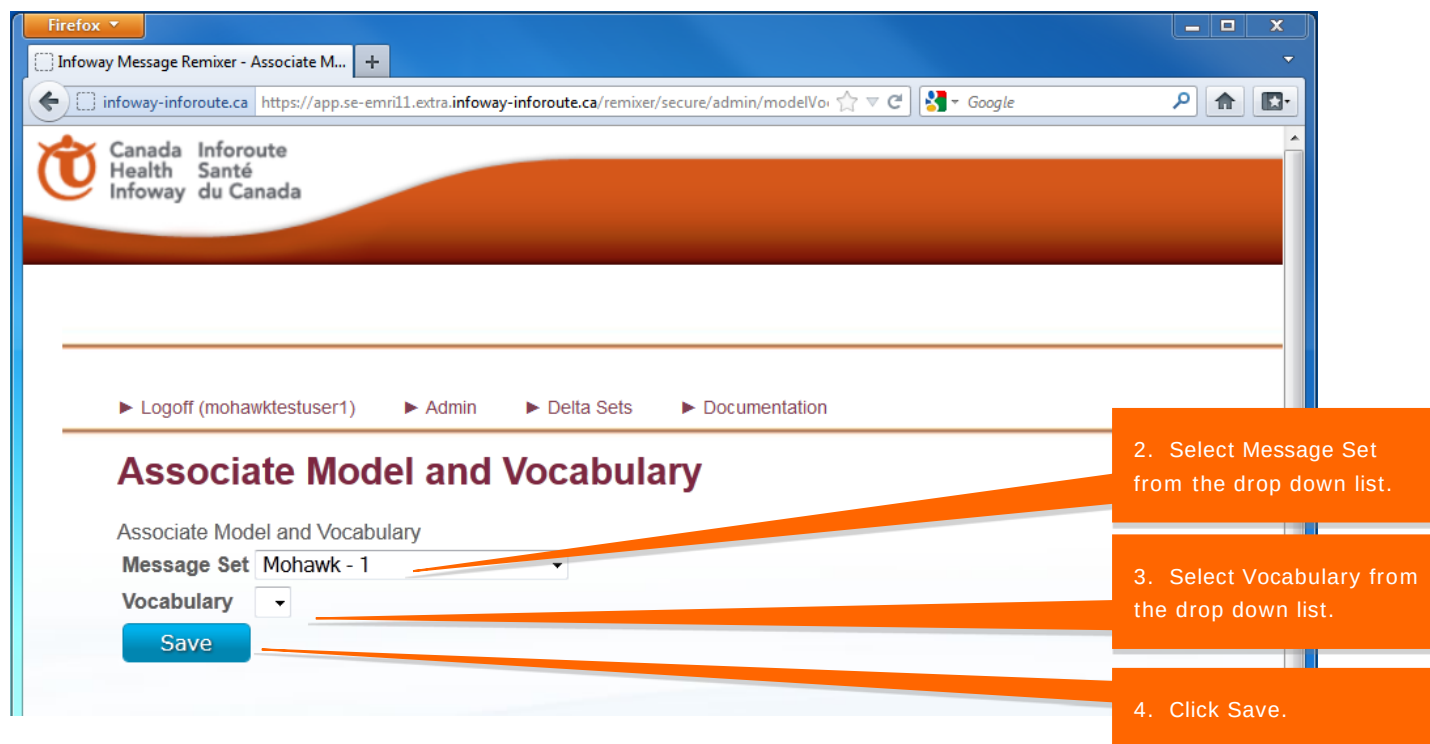


Figure 11 – Select Associate Model and Vocabulary

3.3.4 Populate Mappings

The mappings allow the application to validate the constraints and annotations that are added to the Delta Sets. Within this functionality the administrator can define mappings for different element types. These mappings will be used to define valid constraints and types for:

- CMET substitutions
- Values
- Datatypes
- Annotations
- CodeSystems
- ValueSets
- Domains

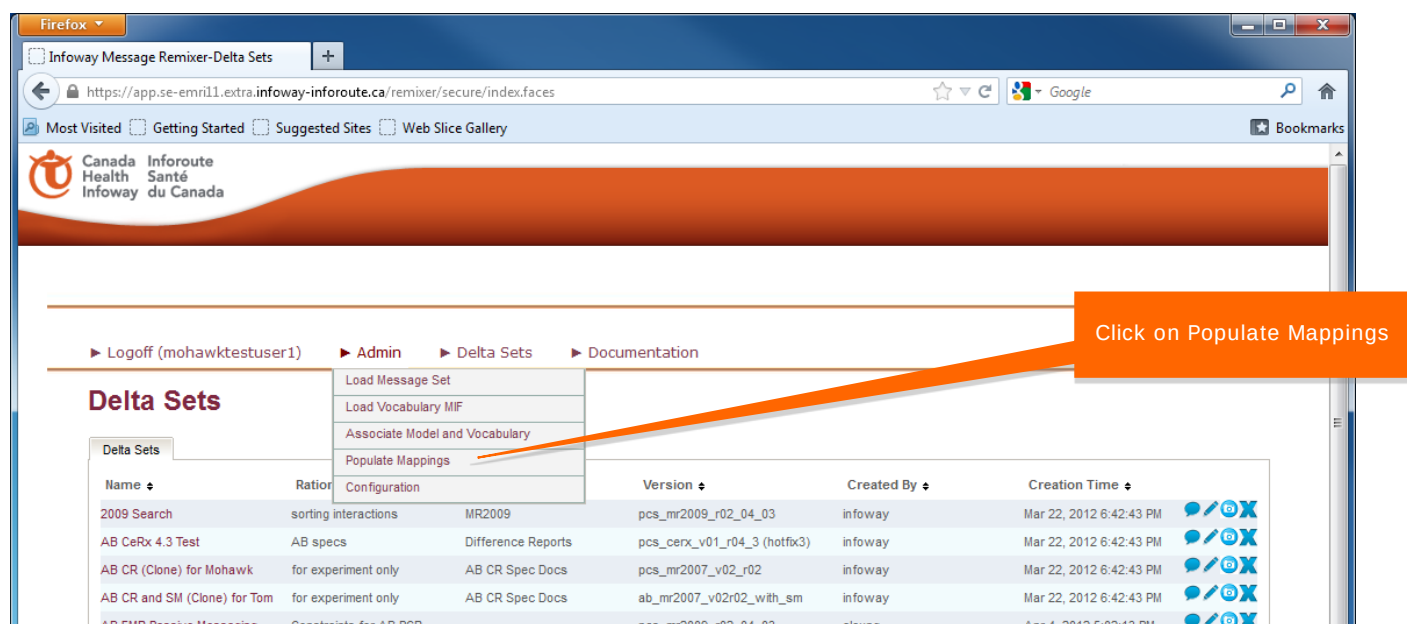


Figure 12 - Populate Mappings

3.3.4.1 To populate mappings:

1. Select the Mapping Type by clicking in the “bullet”
2. Click “Choose File” and browse to the location of the mapping file to be loaded
3. Select the <drive>\<directory>\<file> location. The mappings to be loaded will be loaded as an “xls” file.
4. Select “Load Message Set”

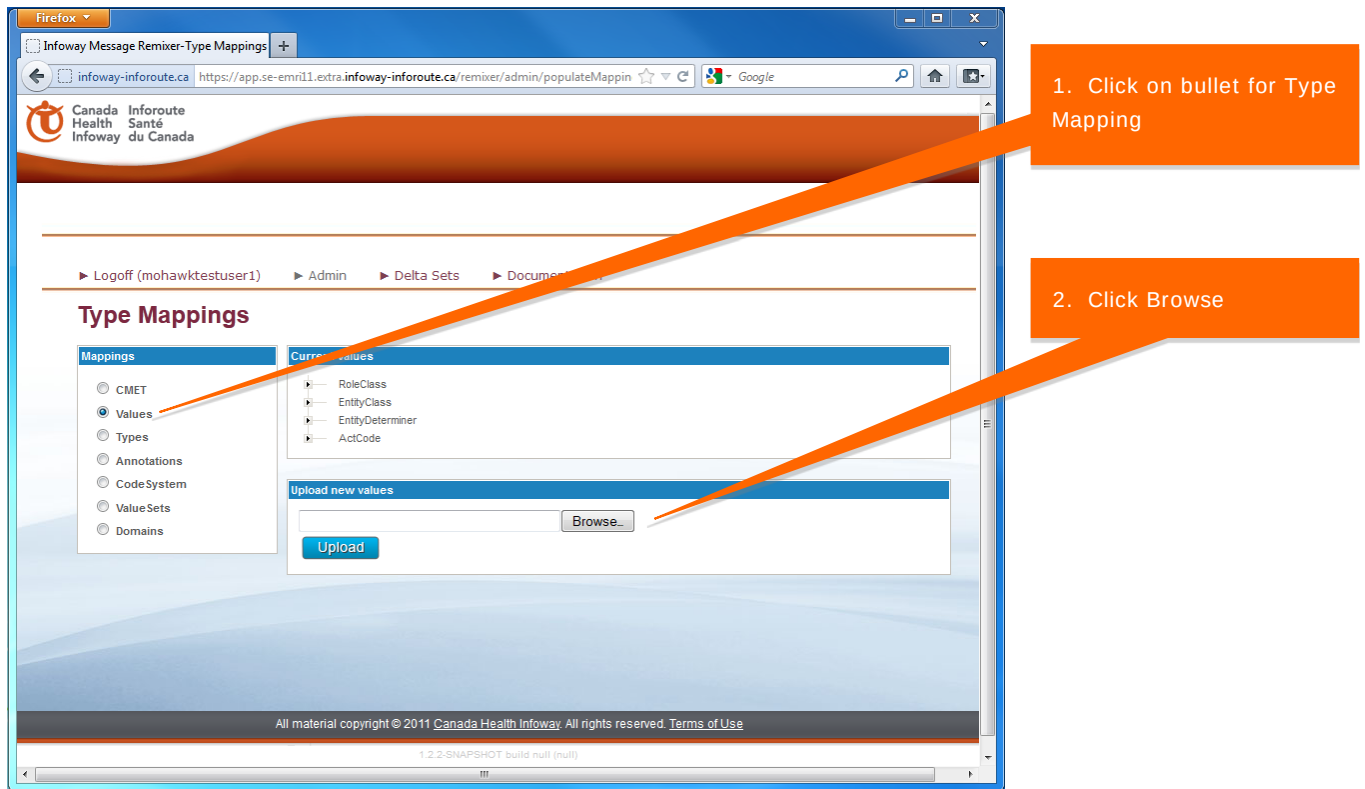


Figure 13 – Select mapping type and choose file

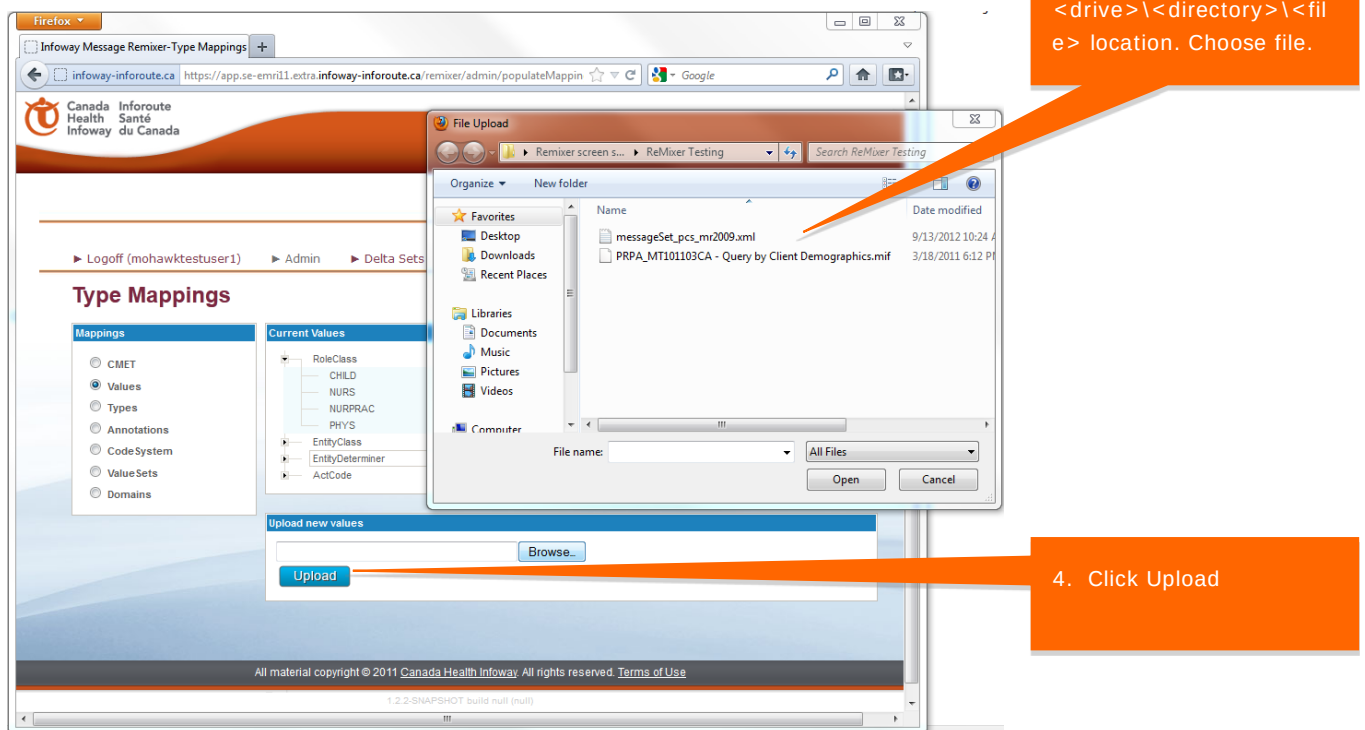


Figure 14 – Select the mapping file

3.3.5 Configuration

The administrator can configure the following login options:

- Authentication Source
- LDAP server url
- Distinguished name template
- User Role
- Admin role

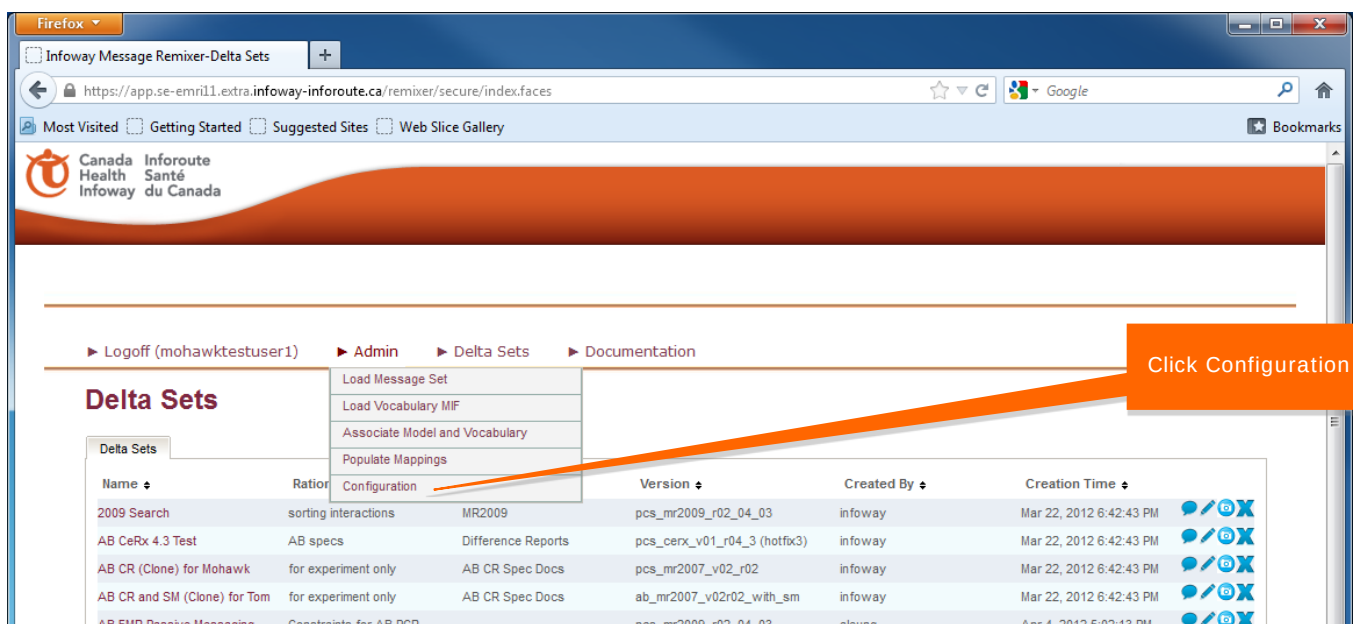


Figure 15 - Configuration

3.3.5.1 To configure Login options

1. Select "Authentication source" from drop-down list. Options are:
 - a. Trivial
 - b. LDAP
2. Enter valid LDAP server URL
3. Enter Distinguished name template
4. Enter User Role
5. Enter Admin Role
6. Click "Save"

The screenshot shows the 'Configuration' page of the Infoway Message Remixer. The 'Login Options' tab is active. The form contains the following fields and instructions:

- 1. Select "authentication source" from drop-down list:** Points to the 'Authentication source' dropdown menu, which currently shows 'Ldap'.
- 2. Enter valid LDAP server URL:** Points to the 'LDAP server url' text input field, which contains 'ldaps://ldap.emri.infoway-inforoute.ca:636'.
- 3. Enter distinguished name template:** Points to the 'Distinguished name template' text input field, which contains 'uid={0},ou=people,dc=emri,dc=infoway-inforoute,dc=ca'.
- 4. Enter User Role:** Points to the 'User role' text input field, which contains 'cn=Message Remixer (stage) User,ou=group,dc=emri,dc=infoway-inforoute,dc=ca'.
- 5. Enter Admin Role:** Points to the 'Admin role' text input field, which contains 'cn=Message Remixer (stage) Admin,ou=group,dc=emri,dc=infoway-inforoute,dc=ca'.
- 6. Click "Save":** Points to the 'Save' button at the bottom of the form.

The page footer includes the copyright notice: 'All material copyright © 2012 Canada Health Infoway. All rights reserved. Terms of Use' and the version information: '1.2.2-SNAPSHOT build null (null)'.

Figure 16 – Login Configuration

	For valid values for each field, see Redmine.
--	---

4 Create or Edit a Delta Set

A Delta Set has the following properties:

Attribute	Description	Conformance
Description	Description of the Delta Set	Mandatory
Rationale	Description of the rationale for the Delta Set	Optional
Source	The source of the constraints and annotations in the Delta Set	Optional
Realm code	A two character code to distinguish the message set from the pan-Canadian specification. For example, a realm could relate to a jurisdictional set of deltas or could relate to a project set of deltas.	Optional
Version	The version of the pan-Canadian specifications to which the constraints and annotations are being applied	Mandatory
Import Constraints From	An existing Delta Set from which constraints are imported	Optional

4.1 To Create a Delta Set

1. Open the Message ReMixer to create a Delta Set. See Section 2 for information on how to open the application.
2. Select "Delta Sets"
3. Select "Create Delta Set"
4. Enter "Description" (mandatory)
5. Enter "Rationale" (optional)
6. Enter "Source" (optional)
7. Enter "Realm code" (optional)
8. Select "Version" from drop-down list (mandatory)
9. Select Import Constraints From from the drop-down list (optional)
10. Click "Save" to save Delta Set

OR

11. Click "Cancel" to close window and do not save Delta Set

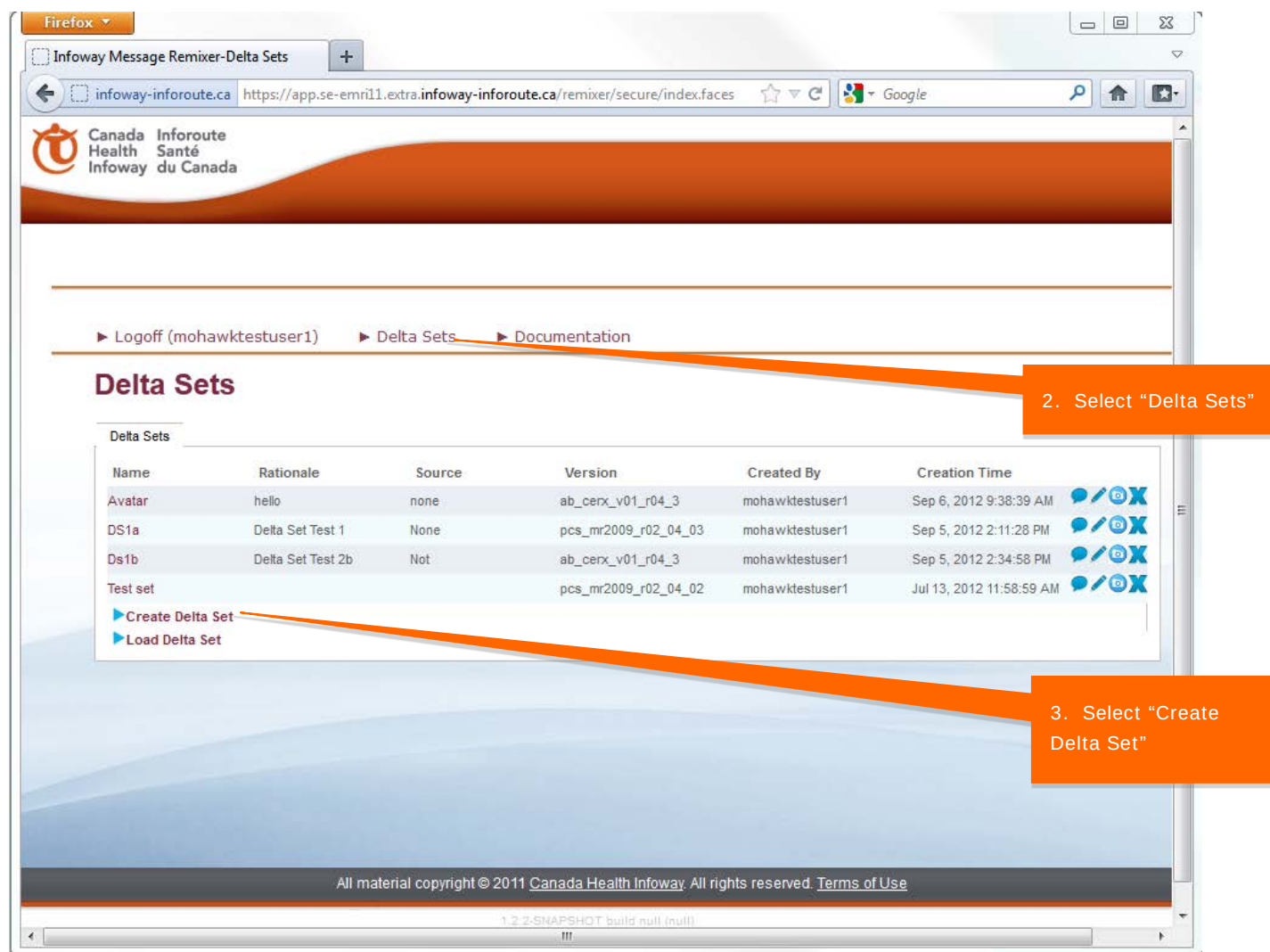


Figure 17 – Select Create Delta Set

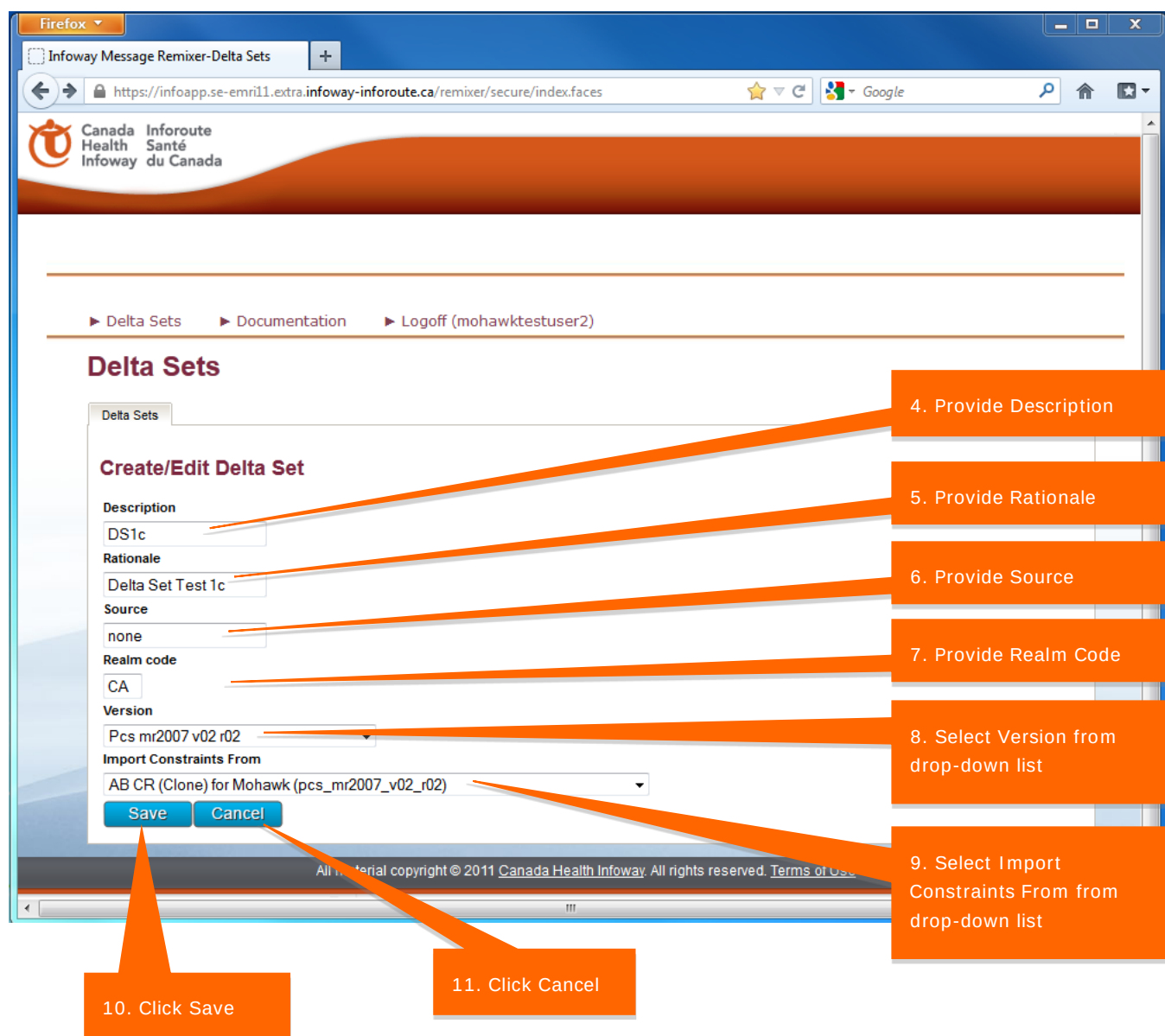


Figure 18 - Describe Delta Set

4.2 Edit Delta Set

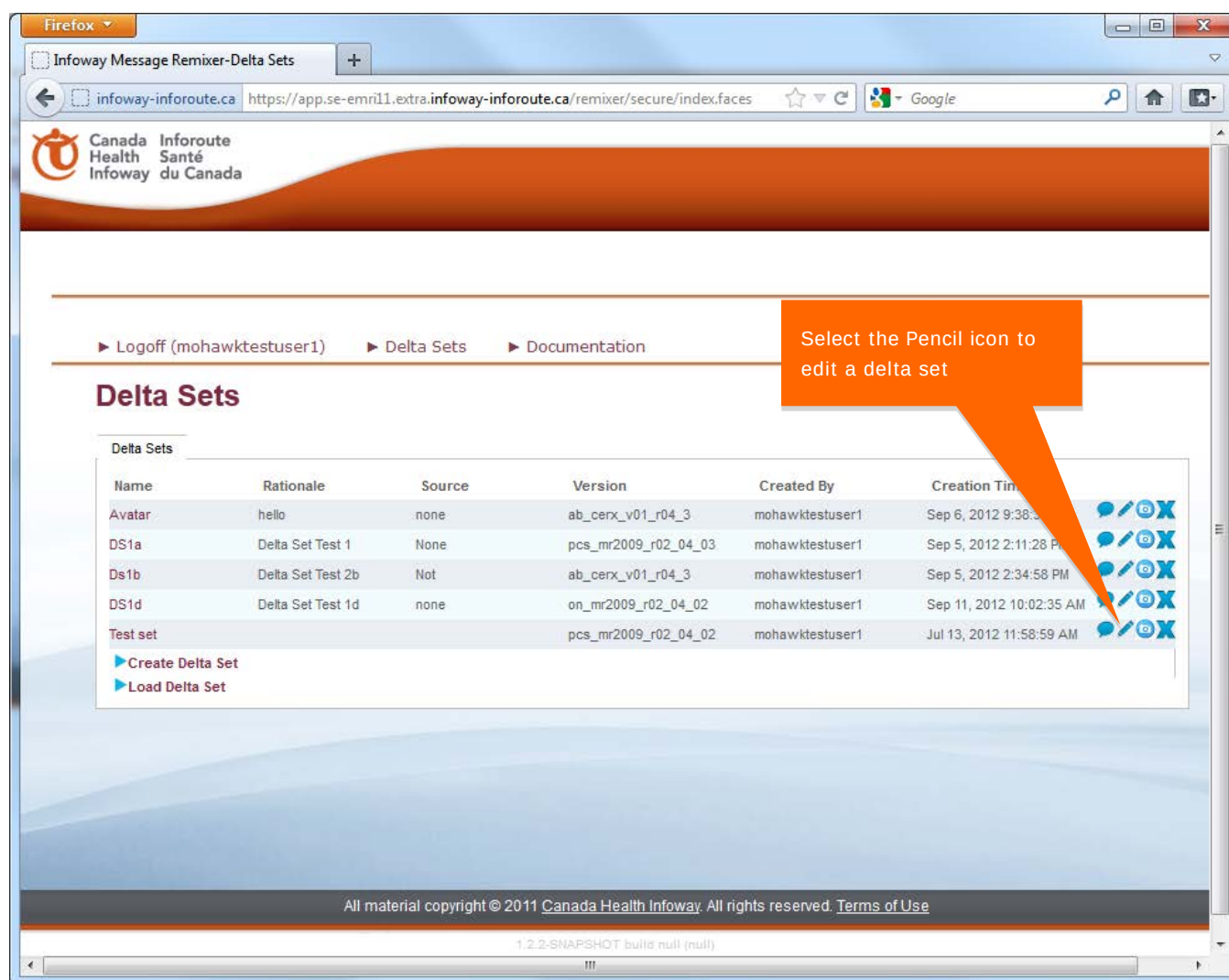


Figure 19 – Edit Delta Set Icon

The following actions are permitted for a Delta Set:

- Share Delta Set 
- Update properties 
- Create Snapshot 
- Delete Delta Set 

4.2.1 Share Delta Set

Delta Sets created by one user can be shared with other users.

1. Select  for the Delta Set to be shared
2. Enter the user id
3. Click “Add User”
4. Click “Back” once all users are added

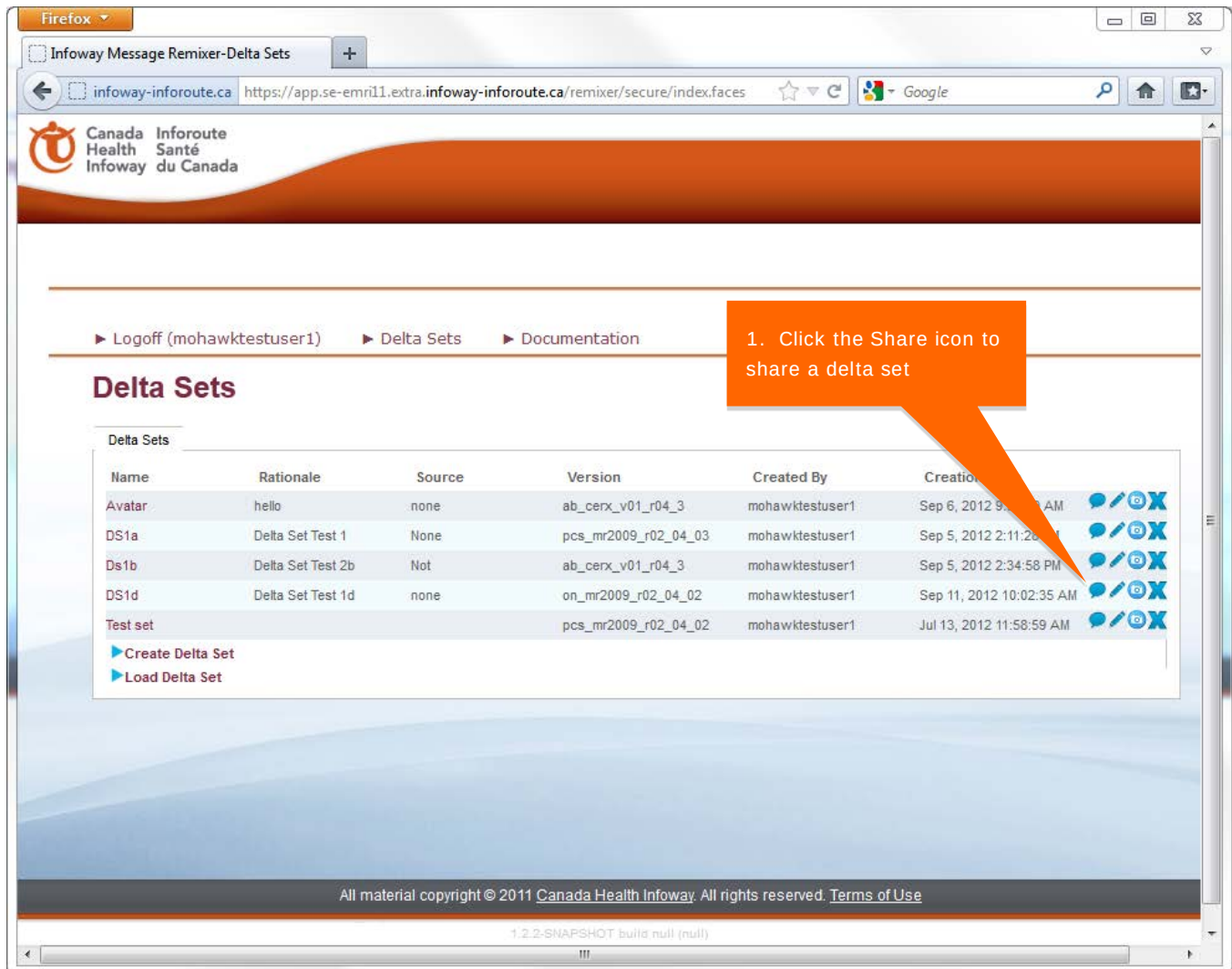


Figure 20 – Click to Share Delta Set

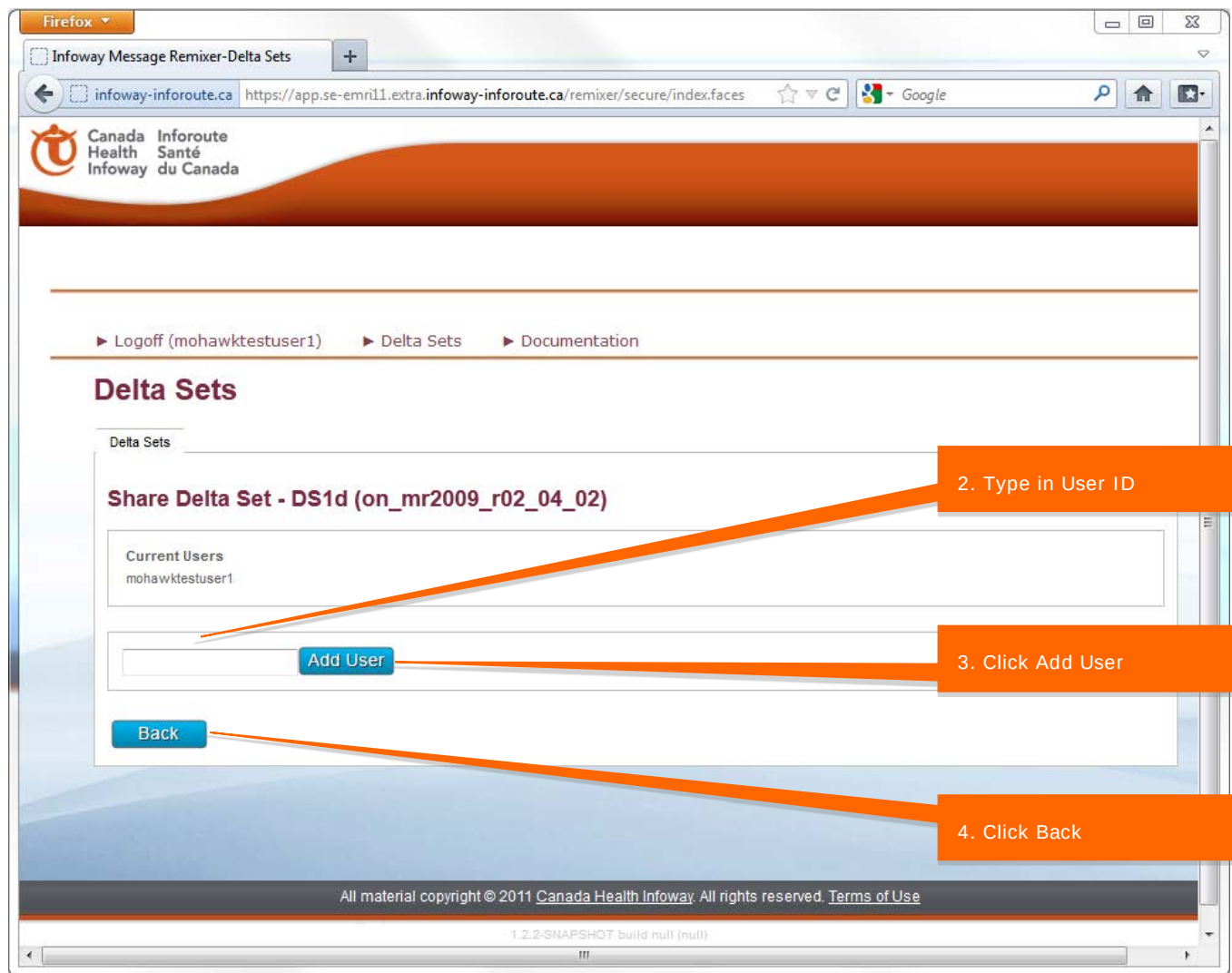


Figure 21 – Share Delta Set

4.2.2 Update Properties

The properties of a delta set can be updated. If the version of the Delta Set is changed, there are reports that should be run to validate that existing deltas are applicable or appropriate.

1. Select  for the Delta Set to be edited
2. See Section 4.1 - To Create a Delta Set for instructions on Delta Set properties

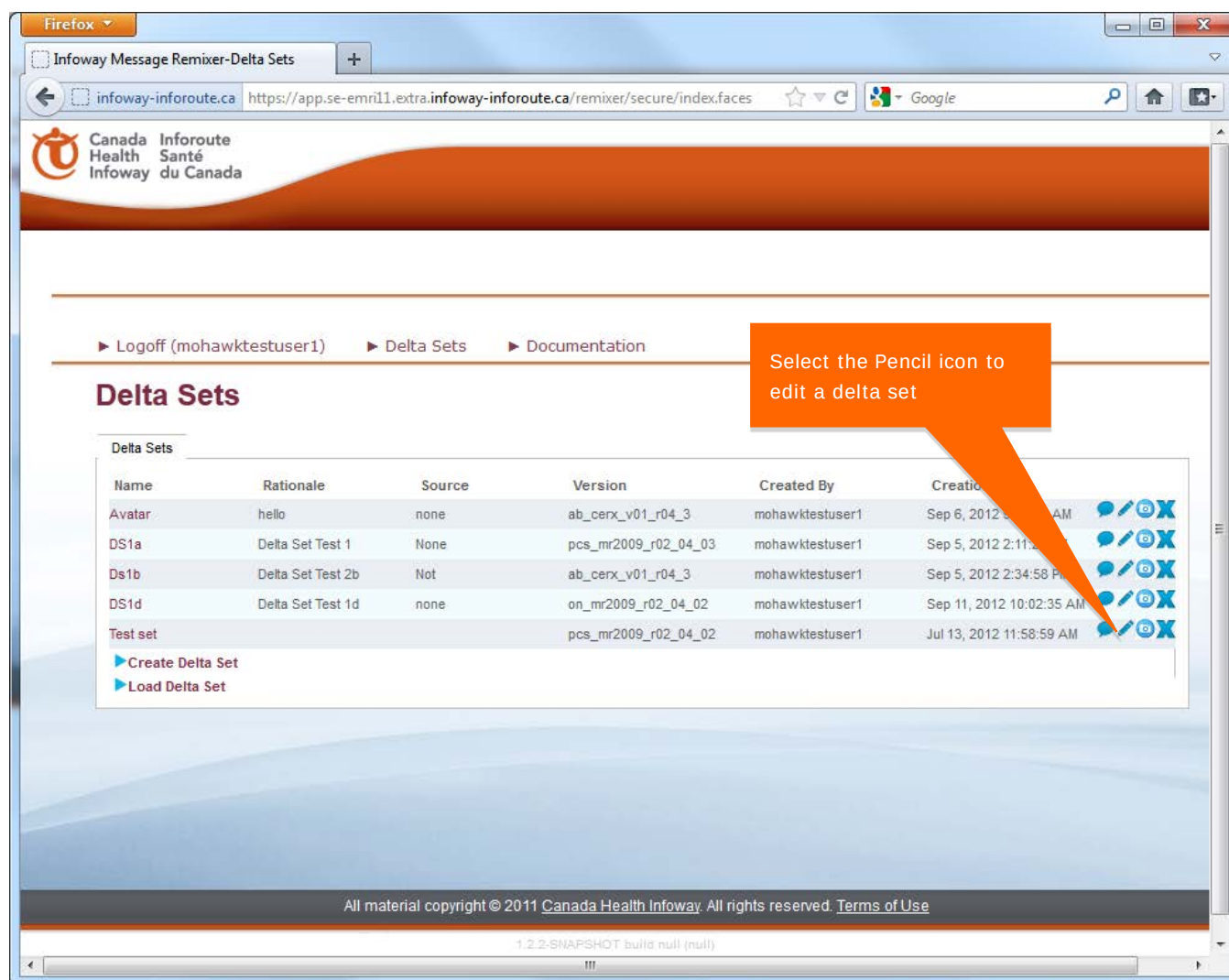


Figure 22 – Edit properties of a Delta Set

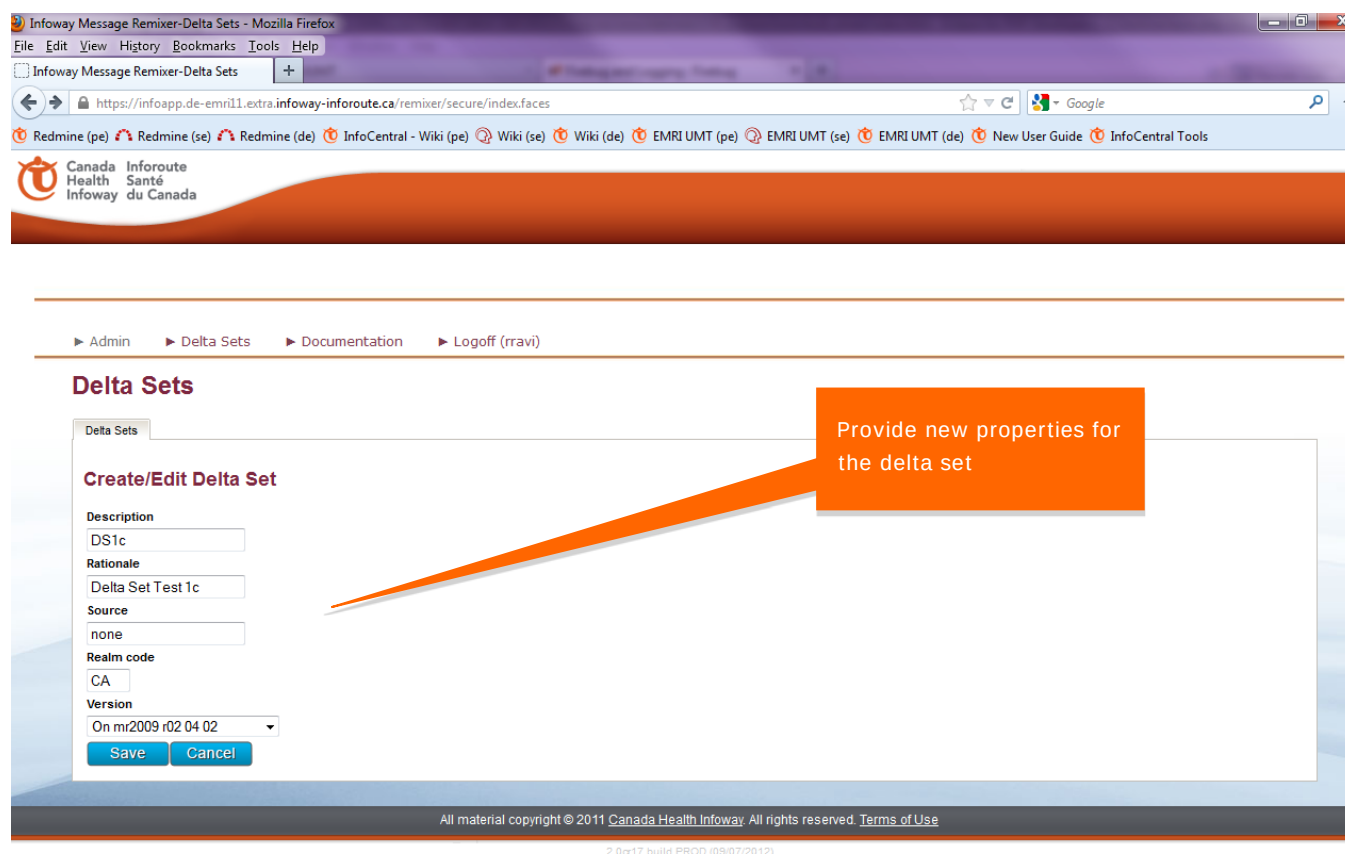


Figure 23 – Update properties of a Delta Set

4.2.3 Create Snapshot of a Delta Set

A snapshot of a Delta Set can be created.

1. Select  for the Delta Set to be shot
2. Notice a SNAPSHOT delta with timestamp is added in the list

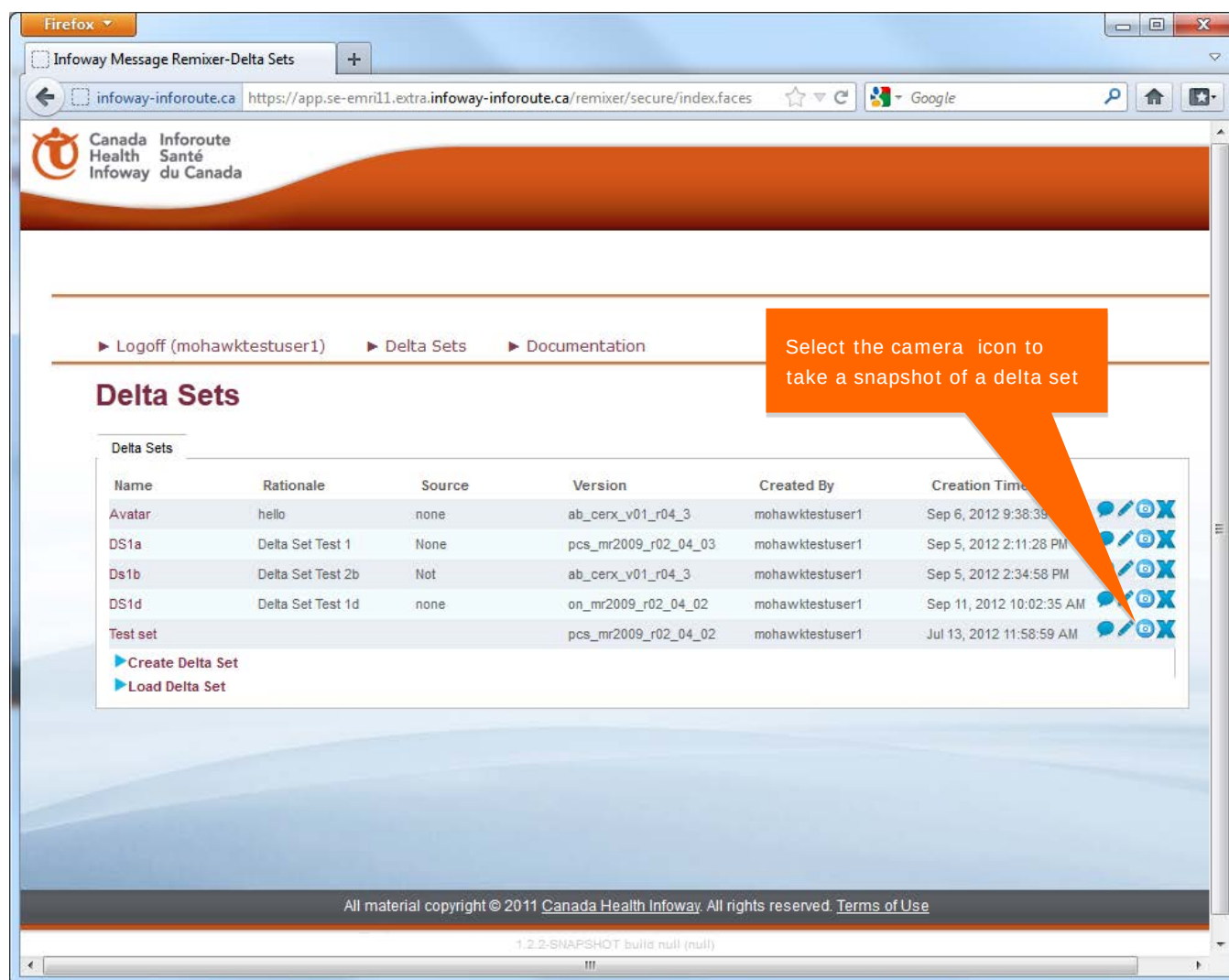


Figure 24 – Create a Snapshot of a Delta Set

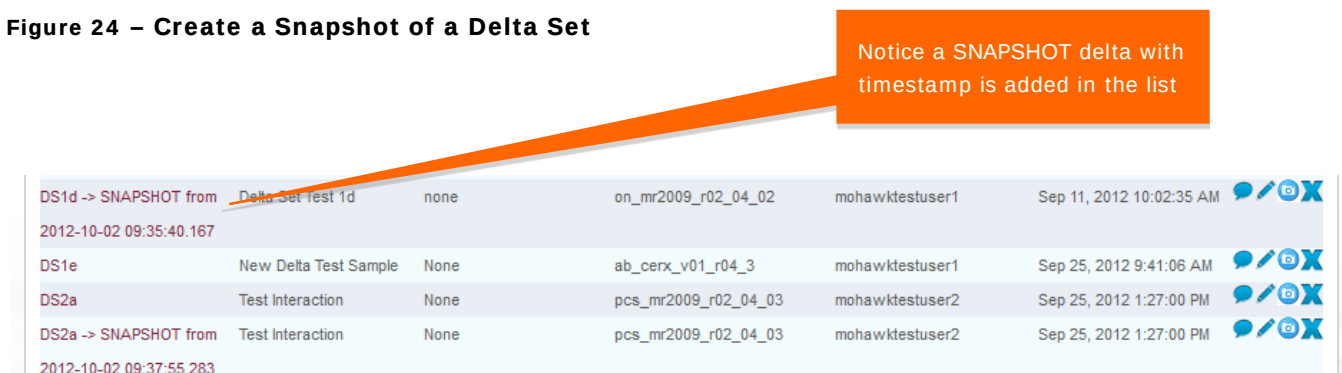


Figure 25 - Snapshot Added

4.2.4 Delete Delta Set

A Delta Set can be deleted. Once deleted, all deltas applied to the delta set are lost.

1. Select  for the Delta Set to be deleted.
2. Click "Delete" to delete Delta Set

or

3. "Cancel" to cancel deletion

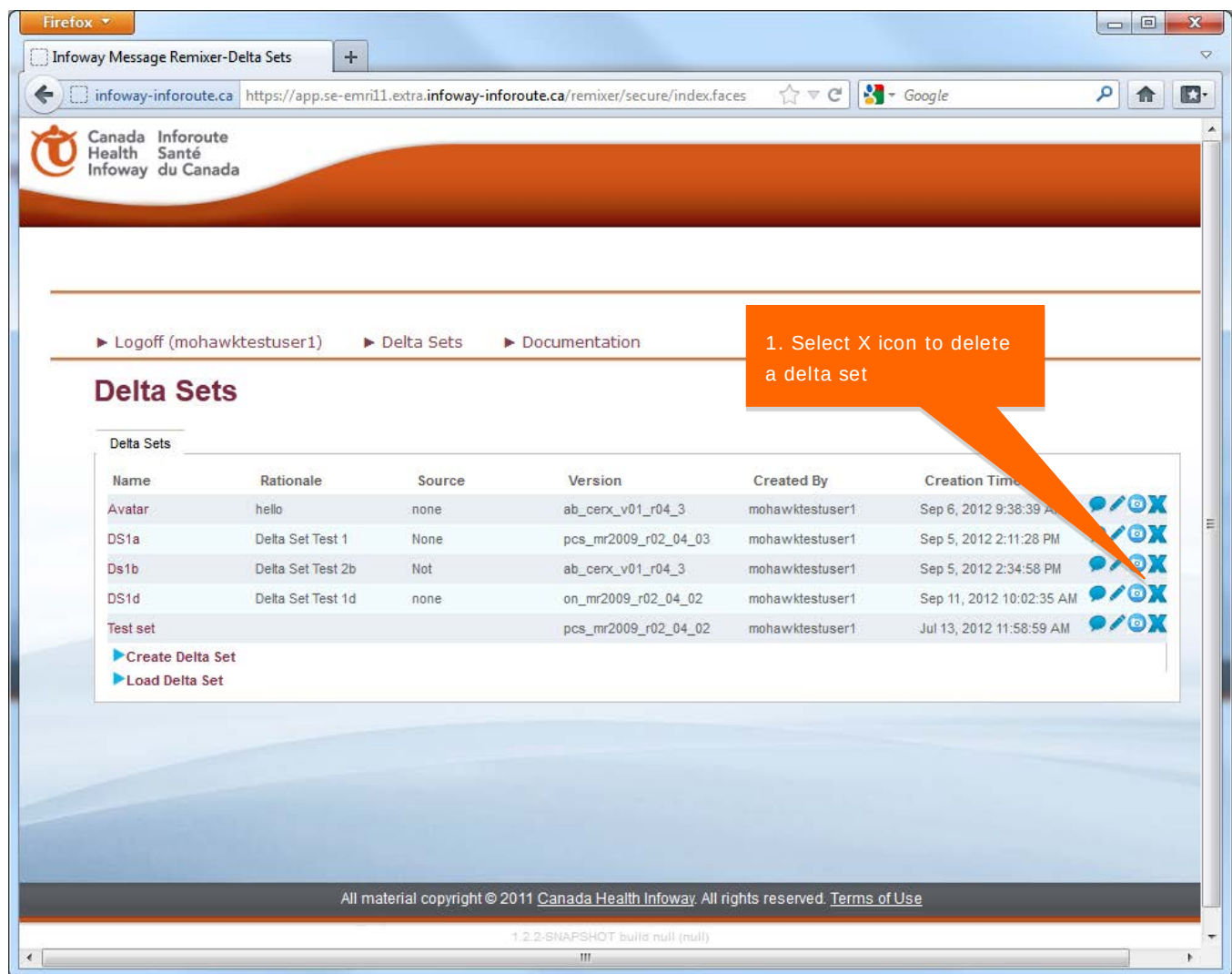


Figure 26 – Delete a Delta Set

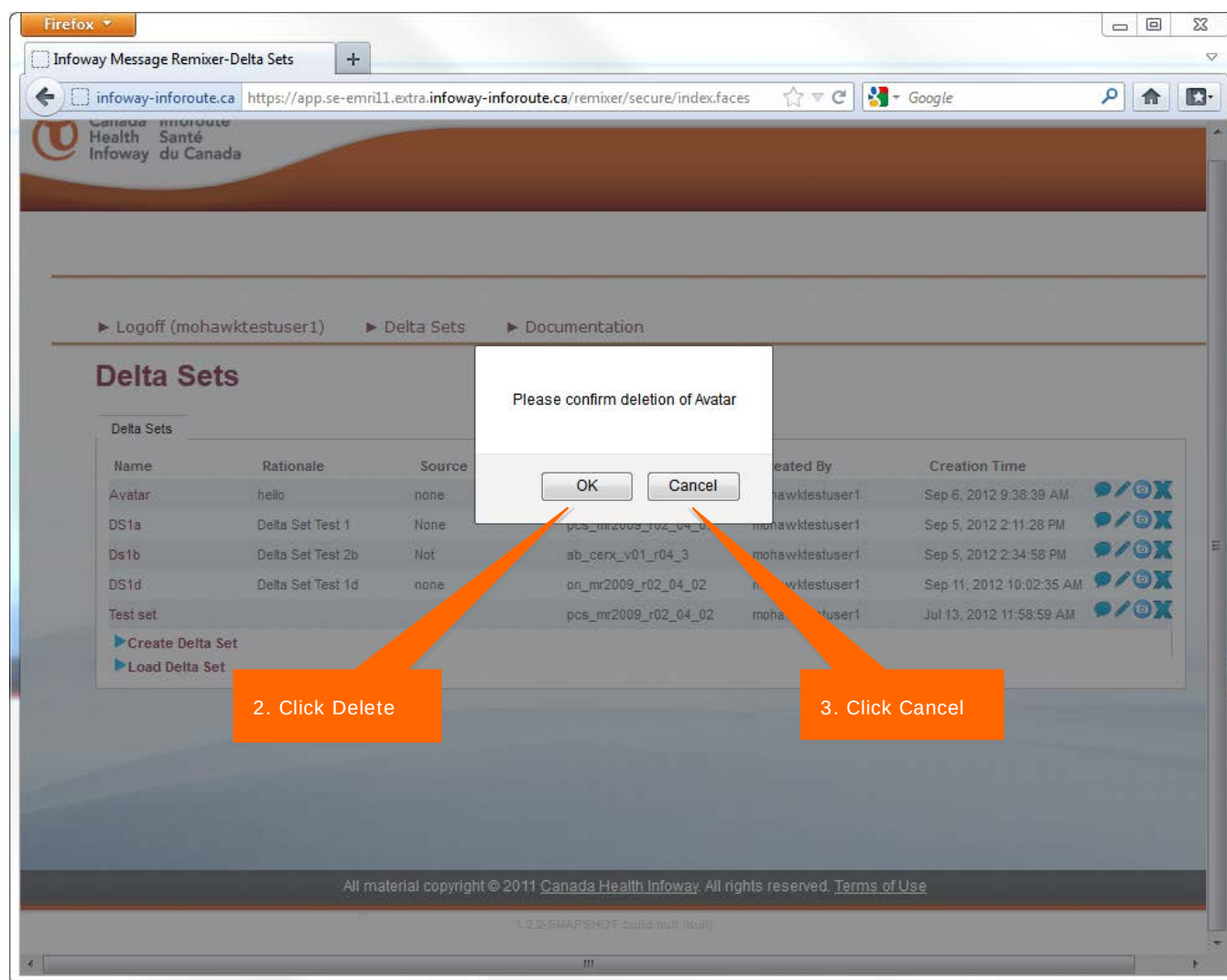


Figure 27 – Delete or Cancel from Deletion of a Delta Set

5 Tree View

5.1 Create a New Object

A delta is a change (constraint or annotation) that is made to an element or component within a message part or interaction.

5.1.1 Create a New Message Part in Delta Set

1. Select Delta Set Name.
2. Tree View tab will show Interactions and Message Parts. Click on “Add”.
3. In the Create a new Object page, select Message Part tab. See Section 5.2 to create a new Interaction.
4. From the list, select the Package or interaction.
5. Provide the Class Name (Mandatory)
6. Select RIM Class from the drop down list
7. Check the box for abstract option
8. Click Save or Cancel



Where changes are made to existing deltas, the previous delta is replaced by the new value.

It is important to note that changes that are made to an element that exists across multiple interactions, those changes are applied to all instances of its' use.

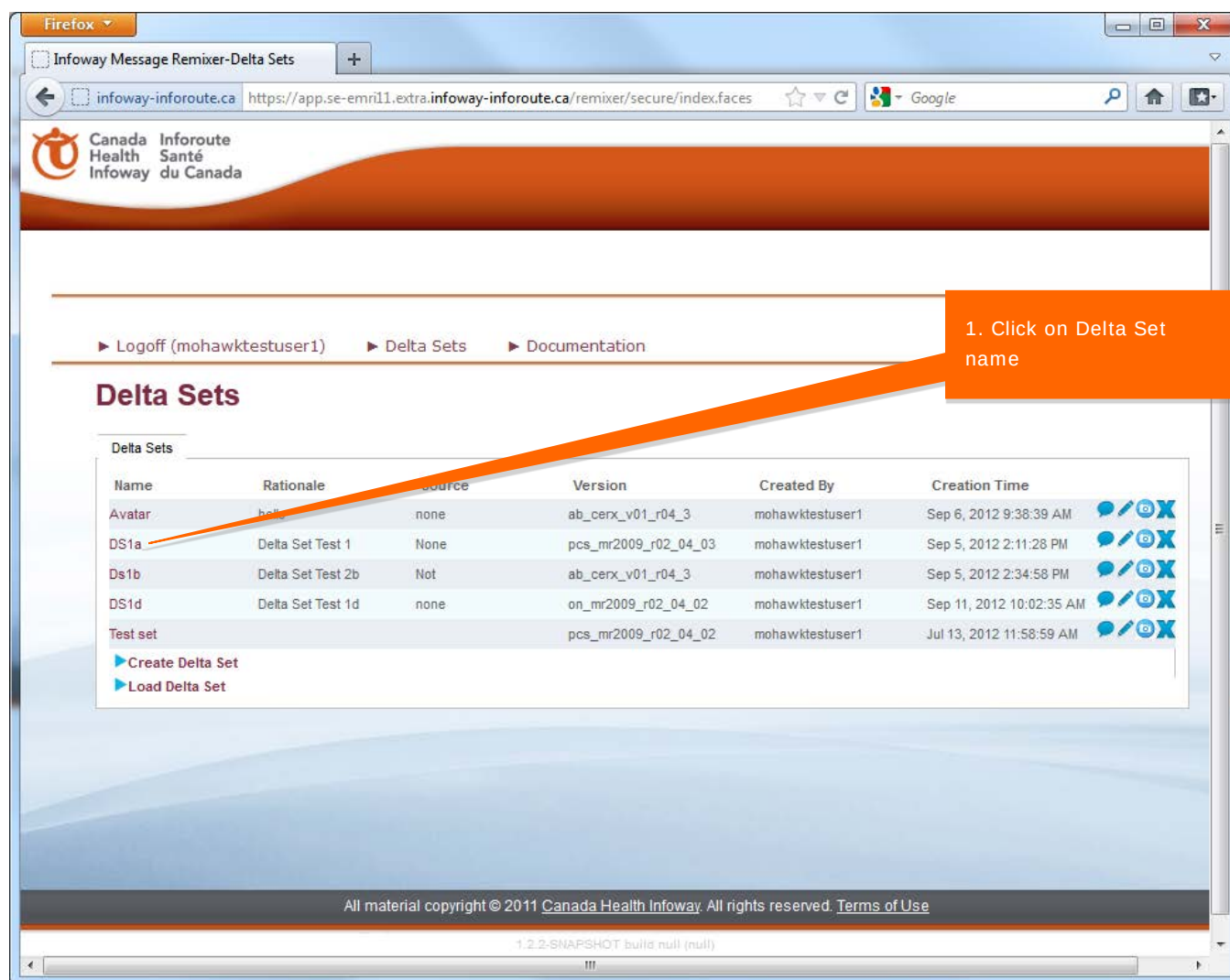


Figure 28 – Select name of Delta Set

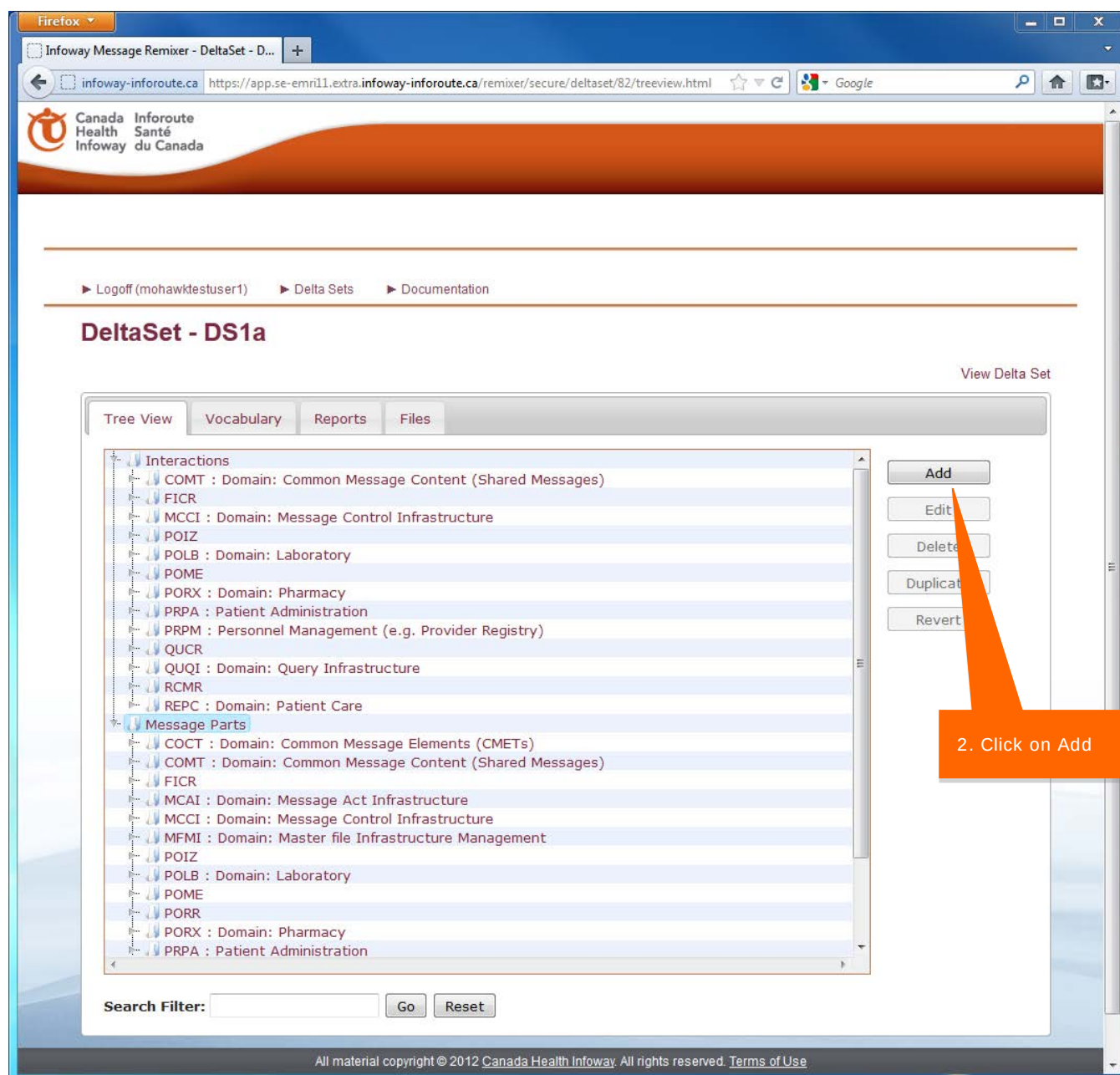


Figure 29 – Add Delta

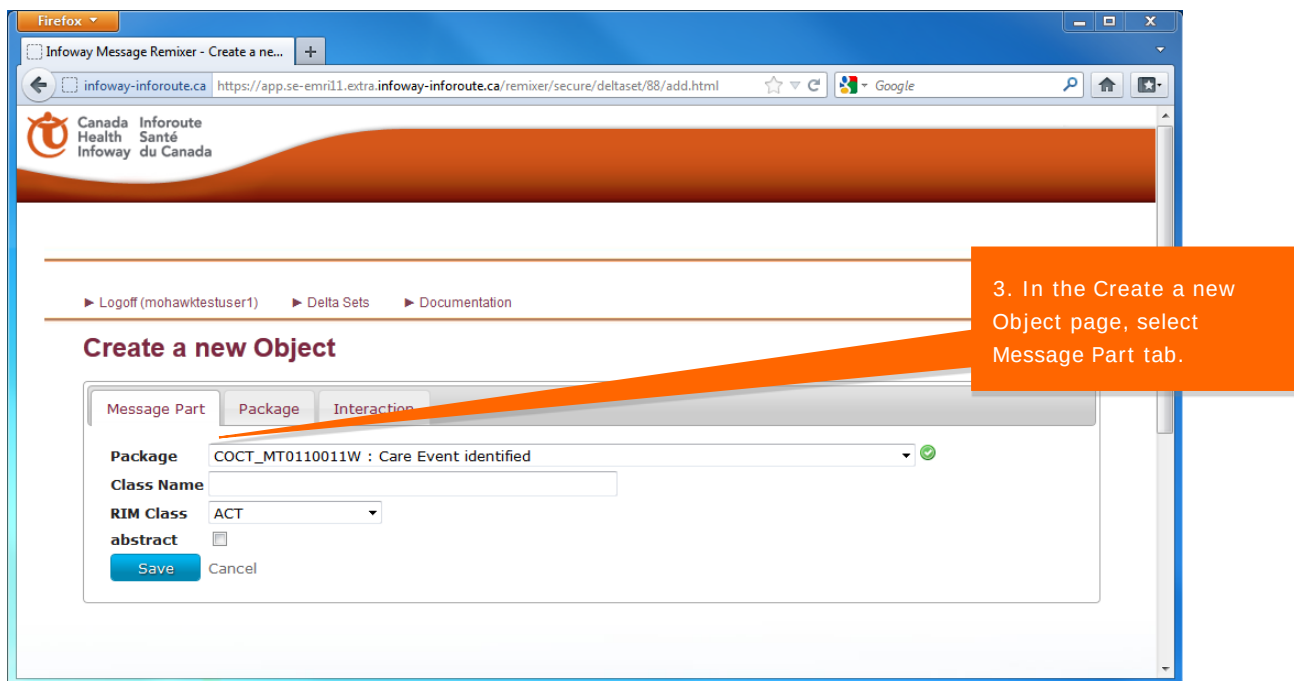


Figure 30 – Create a New Object

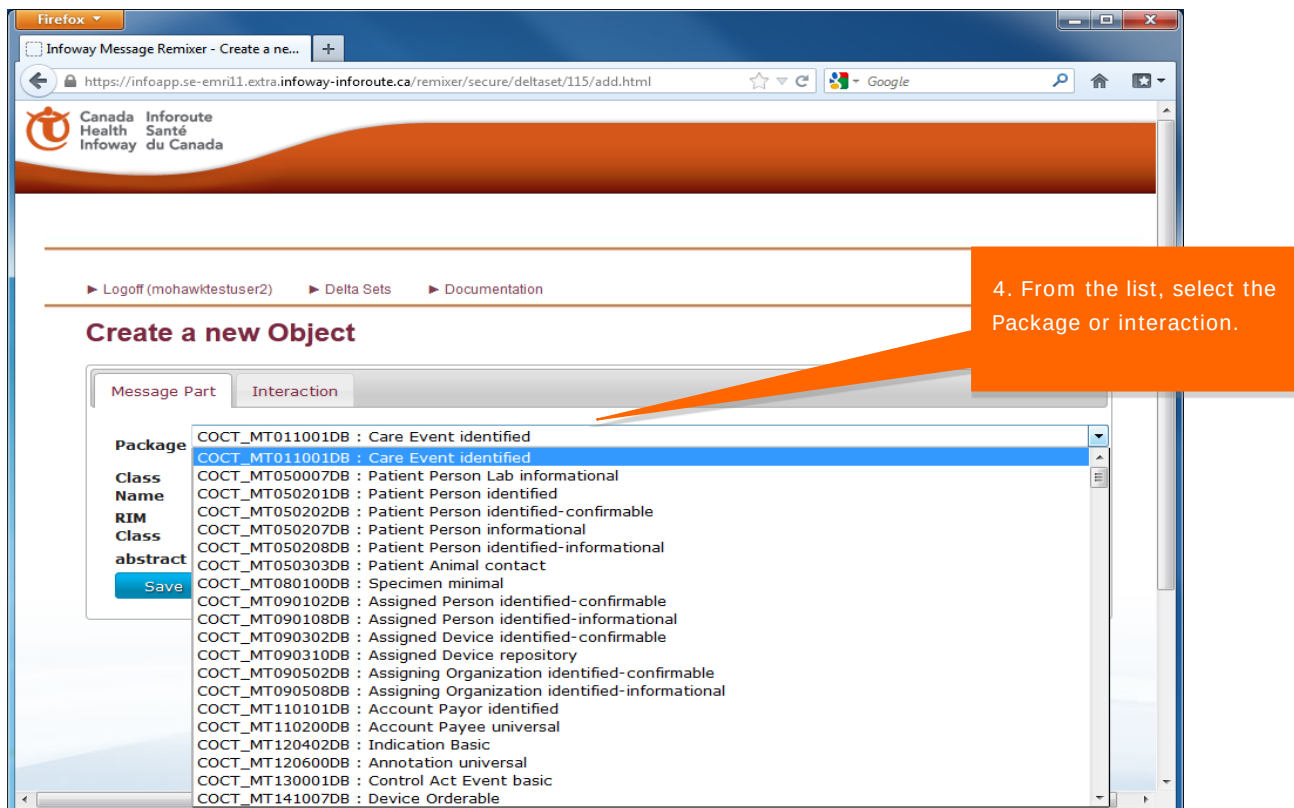


Figure 31 – List of Packages or Interactions

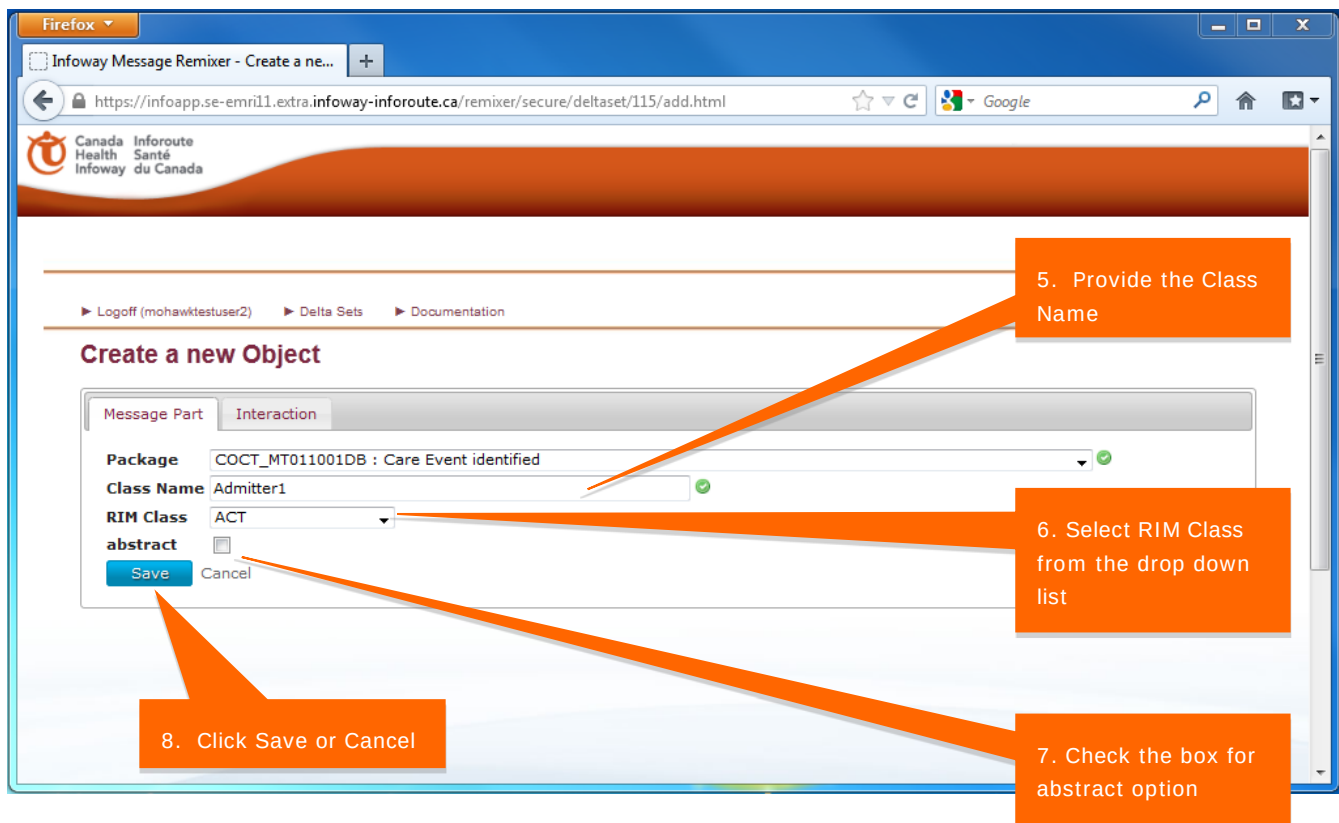


Figure 32– Save a new Object

5.1.2 Create a New Interaction in Delta Set

1. In the Create a new Object page, select Interaction tab.
2. Provide a valid Interaction name in this format: XXXX_INDDDDDDXX where X is any letter and D is any number.
3. Select Base Message from the drop down list.
4. Select Control Act Event from the drop down list.
5. Provide a Traversal Name.
6. Additional fields will be shown and requires your input.
7. Click Save or Cancel.

Firefox

Infoway Message Remixer - Create a ne...

https://infoapp.se-emri11.extra.infoway-inforoute.ca/remixer/secure/deltaset/115/add.html

Canada Inforoute
Health Santé
Infoway du Canada

Logoff (mohawktuser2) Delta Sets Documentation

Create a new Object

Message Part Interaction

Interaction Name COCT_IN000000DB

Base Message MCCI_MT002100DB.Message : Request Transport Wrapper

Control Act Event COCT_MT130001DB.ControlActEvent : Control Act Event basic

Traversal Name controlActEvent

Save Cancel

2 Provide the Interaction Name

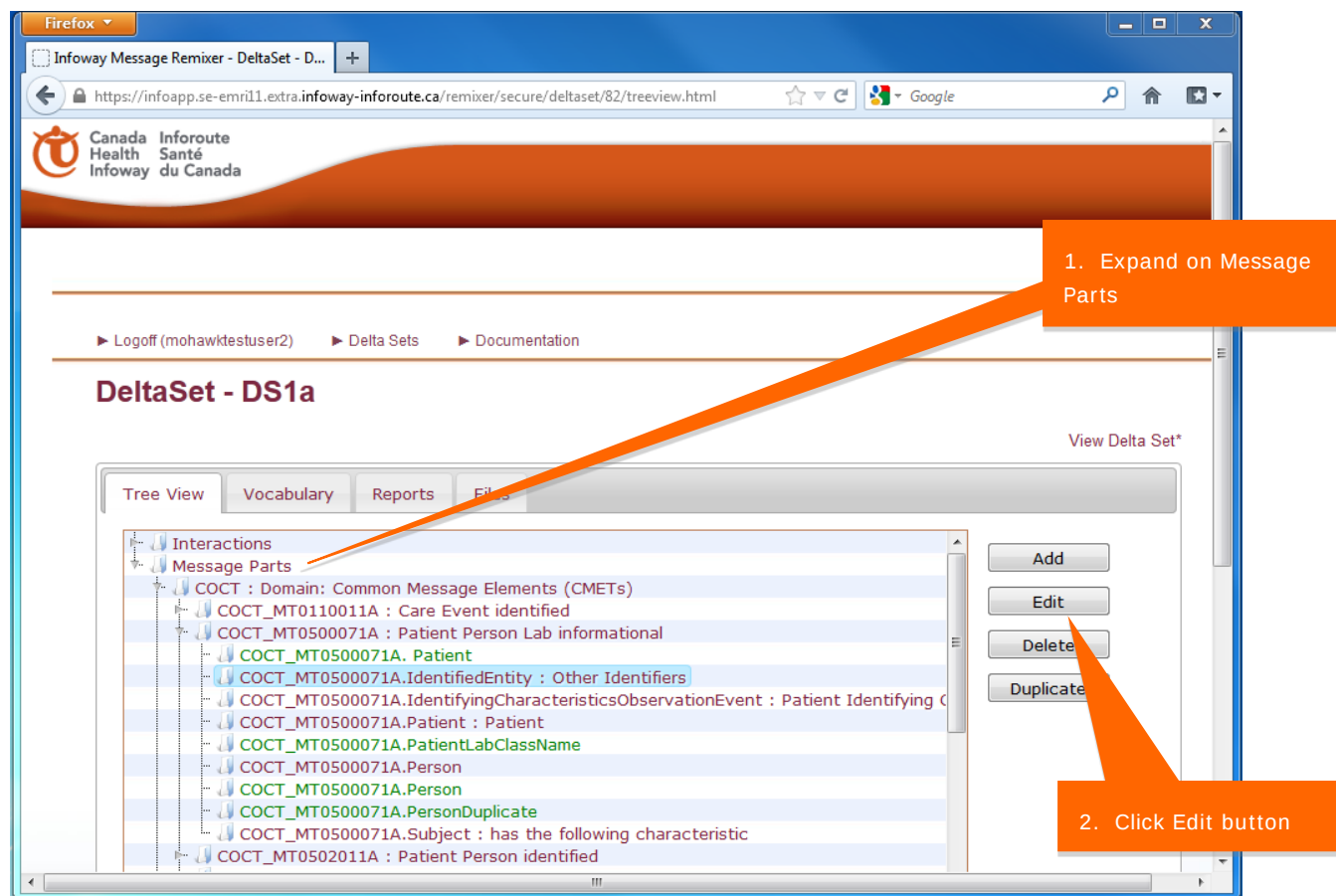
3. Select Base Message and Control Act Event

6. Click Save or Cancel

Figure 33 - Create a New Interaction

5.2 Edit a Message Part in Delta Set

1. Expand on Message Parts.
2. Click on Edit button once it's activated.
3. A Relationships tab will show containing the Message part details.
4. Click Add to define a new relationship. Refer to Section 5.3.1 for a detailed guide.
5. Click Edit to change existing relationship. Refer to Section 5.3.2 for a detailed guide.
6. Click Delete to remove an existing relationship. Refer to Section 5.3.4 for a detailed guide.
7. Click Back to go back to the previous page.

**Figure 34 - Edit a Message Part**

3. Click the Relationships tab

4. Click Add to add a new relationship

5. Click Edit a relationship

6. Click Delete to delete a part

Edit Message Part - COCT_MT0500071A.PersonDuplicate

Relationships Documentation

```

classCode : CS [1] (MANDATORY) {CNE:EntityClass} , fixedValue = "PSN"
determinerCode : CS [1] (MANDATORY) {CNE:EntityDeterminer} , fixedValue = "INSTANCE"
name : PN.BASIC [1] (POPULATED)
administrativeGenderCode : CV [1] (POPULATED) {CNE:AdministrativeGender}
birthTime : TS.DATETIME [1] (POPULATED)
deceasedInd : BL [0-1] (REQUIRED)
deceasedTime : TS.DATETIME [0-1] (REQUIRED)
asIdentifiedEntity : COCT_MT0500071A.IdentifiedEntity [0-4] (REQUIRED)
    
```

Add Edit Delete Back

Figure 35 - Edit Relationships

5.2.1 Add Relationships to a Delta

Add relationships to a newly created or to an existing Delta.

1. Select the new object created from the tree view.
2. Click Edit.
3. In the Edit Message Part panel and in the Relationships tab: click Add to add a new relationship.
See Section 5.3.4 for the Documentation tab.
See Section 5.3.5 for the Children tab.
4. Click on Association tab to add new associations.
 - a. Fill in Name field
 - b. Provide a valid Type
 - c. Select Conformance Level from the drop-down list
 - d. Select Cardinality that corresponds to the Conformance Level
 - e. Click Save or Cancel
5. Click on Attributes tab to add new attributes.
 - a. Provide a Name (mandatory)
 - b. Select a Type from the list
 - c. Depending on the Type selected, additional fields are populated.
 - i. Select Coding Strength from the list.
 - ii. Select Domain Source
 - iii. Provide Domain Type (optional)
 - d. Select Conformance Level
 - e. Select Cardinality based on the Conformance Level selected
 - f. Select between Default and Fixed Value
 - g. Click Show Advanced Options to select between Normal and Immutable
 - h. Select Update Modes (multiple modes can be selected)
 - i. Select a Default Update Modes from the drop down list.
 - j. Click Save or Cancel.
6. The new associations and attributes are now added to the list.

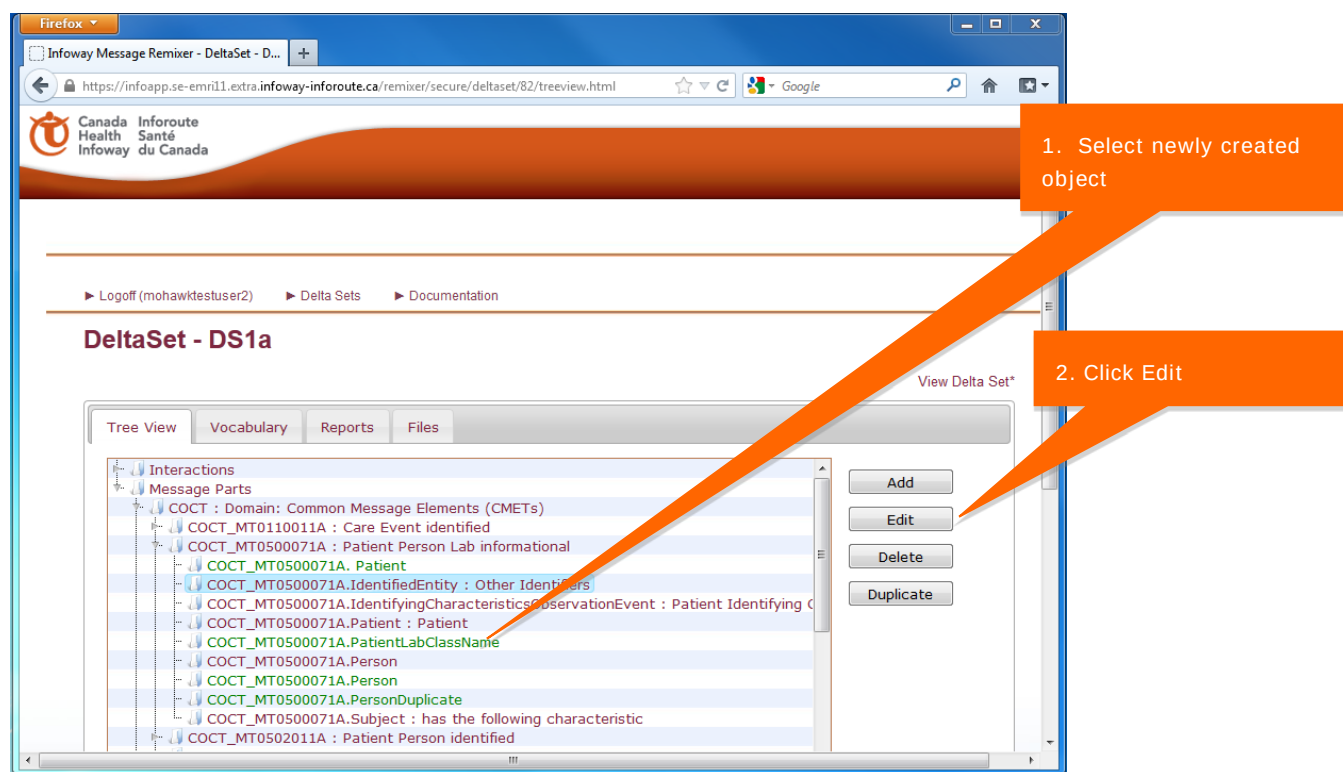


Figure 36 - Edit a Message Part

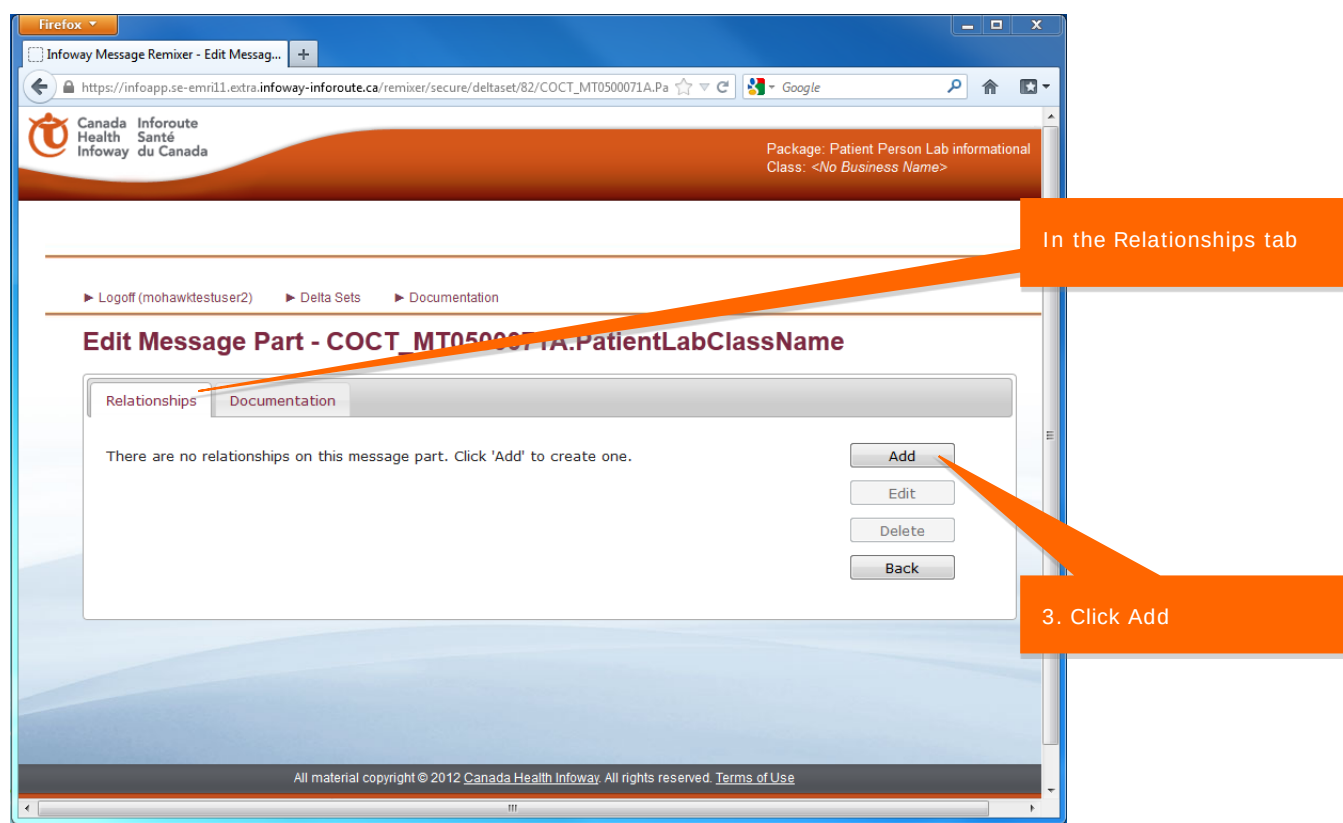


Figure 37 - Add Relationships

The screenshot shows a web browser window titled "Infoway Message Remixer - Add Relationship". The address bar shows the URL: `https://infoapp.se-emri11.extra.infoway-inforoute.ca/remixer/secure/deltaset/88/COCT_`. The page header includes the Infoway logo and the text "Canada Health Inforoute Santé Infoway du Canada". A package identifier "Package: Care Event identified Class: <No Business Name>" is visible in the top right.

The main heading is "Add Relationship - COCT_MT0110011W.Admitter1". Below this are two tabs: "Association" (selected) and "Attribute".

The form contains the following fields and controls:

- Name:** Text input field containing "admitter1".
- Type:** Text input field containing "COCT_MT0110011W.Admitter1".
- Conformance Level:** Dropdown menu set to "Optional".
- Cardinality:** Text input field containing "0-1".
- Buttons:** "Save" (blue) and "Cancel" (grey).

Five numbered callouts point to specific elements:

4. In the Association tab
- 4a. Provide Name
- 4b. Provide Type
- 4c. Select Conformance Level
- 4d. Select Cardinality

4e. Click Save or Cancel

Figure 38 - Add Association Values



Figure 39 - Add Attribute Values

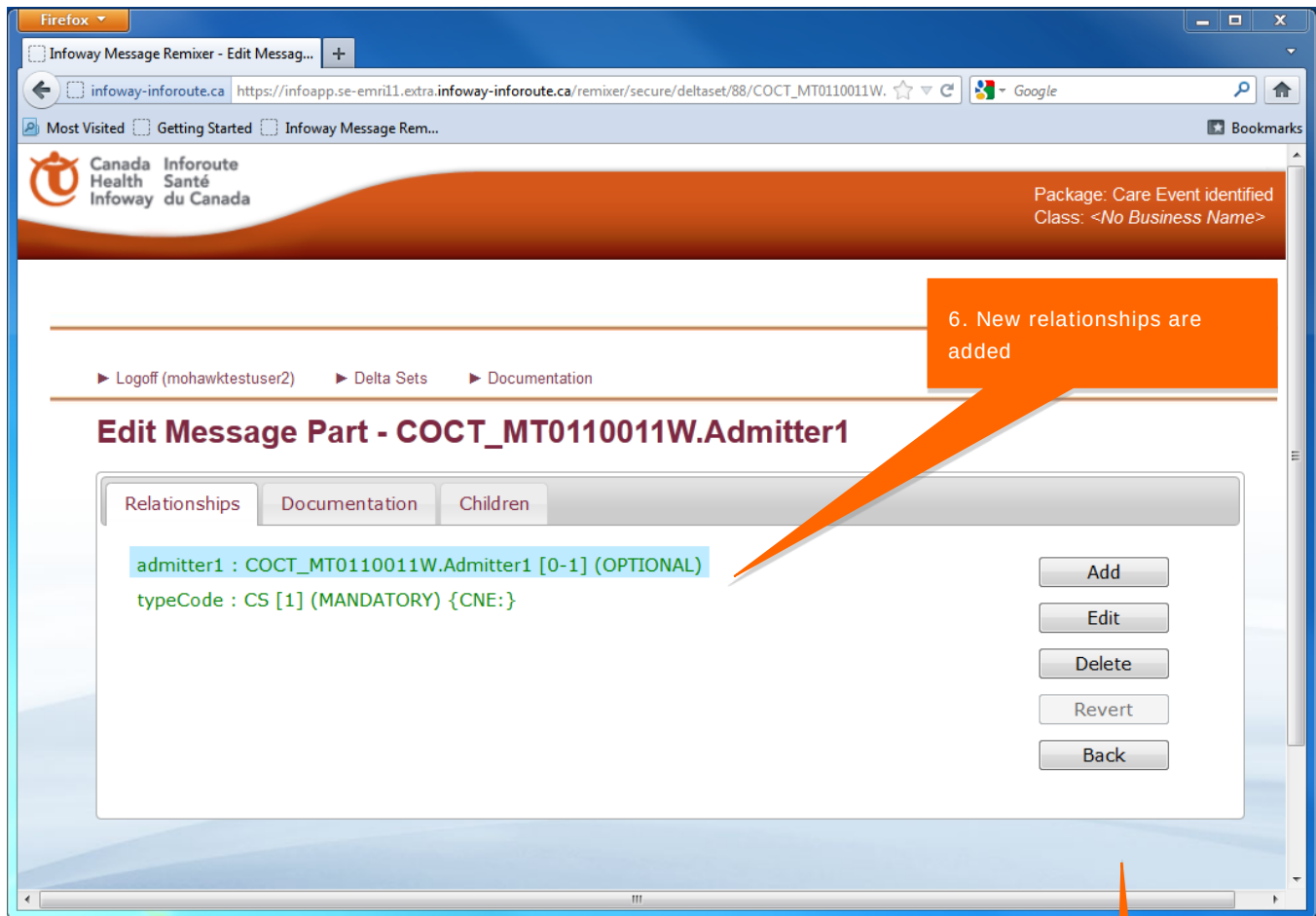


Figure 40 - New Relationships Added

5.2.2 Edit Relationships of a Delta

A “Definition” change allows changing or adding specific details about an attribute or class including information such as cardinality, conformance levels and datatype. Depending upon the element being modified and the information being added or removed, the drop-down lists will change.

Edit relationships of an existing Delta.

1. Select a relationship from the selected message part.
2. Click Edit.
3. In the Definition tab, edit the Association/Attribute values. Note that Name value is not editable.
4. Click Save or Cancel.
5. In the Documentation tab, see Section 5.2.4 for user guidelines.

2. Click Edit

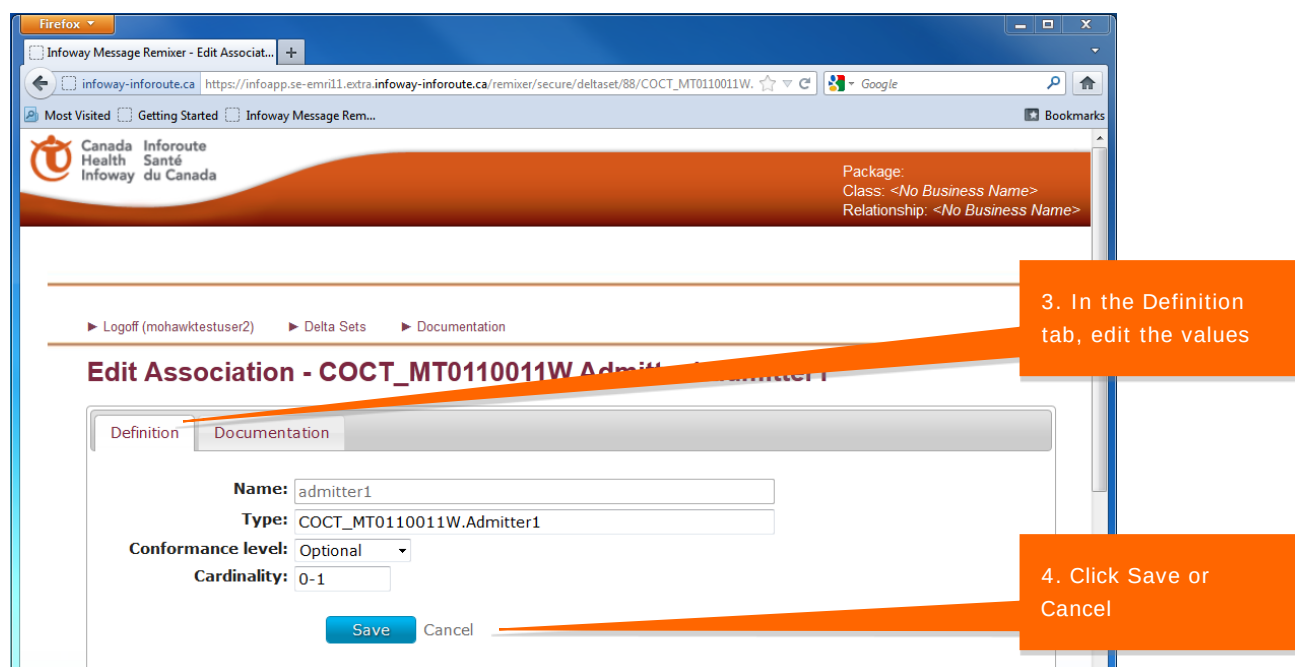


Figure 41 - Edit an Existing Association

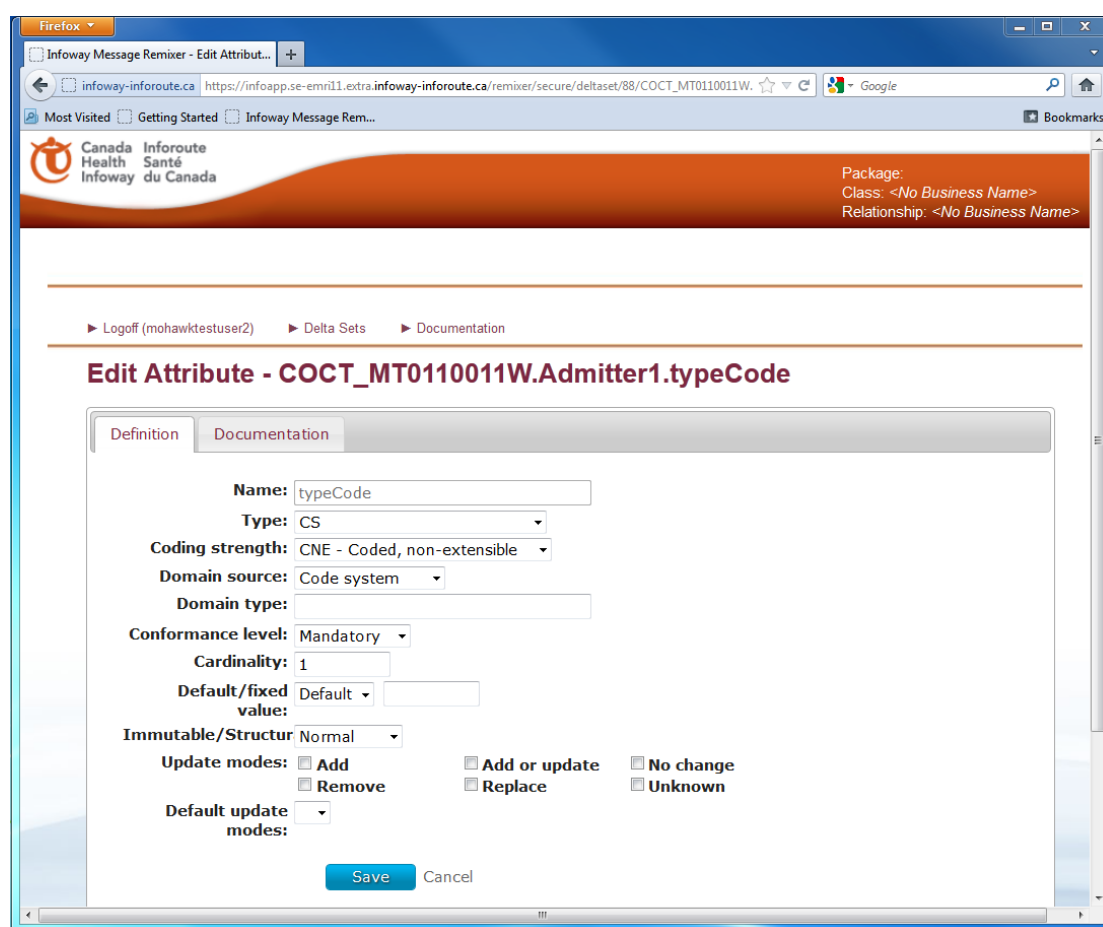


Figure 42 - Edit an Existing Attribute

Firefox

Infoway Message Remixer - Edit Associat...

https://infoapp.se-emr11.extra.infoway-inforoute.ca/remixer/secure/deltaset/126/QUQI_MT0200001A.ControlAct

Canada Inforoute
Health Santé
Infoway du Canada

Package:
Class: <No Business Name>
Relationship: <No Business Name>

Logoff (mohawktestuser1) Admin Delta Sets Documentation

Edit Association - QUQI_MT0200001A.ControlActEvent.queryByParameter

Definition Documentation

Name: queryByParameter

Type: QUQI_MT0200001A.QueryByParameter

Conformance level: Populated

Cardinality: 1

☐ I acknowledge that I am making changes that are incompatible with the Pan-Canadian Standards.

Save Cancel

Check to certify acknowledgement of incompatible changes to be made.

Figure 43 - Change Acknowledgement

5.2.3 Delete a Relationship of a Delta

Delete a relationship of an existing Delta.

1. Select a relationship from the selected message part.
2. Click Delete.
3. Click OK or Cancel.

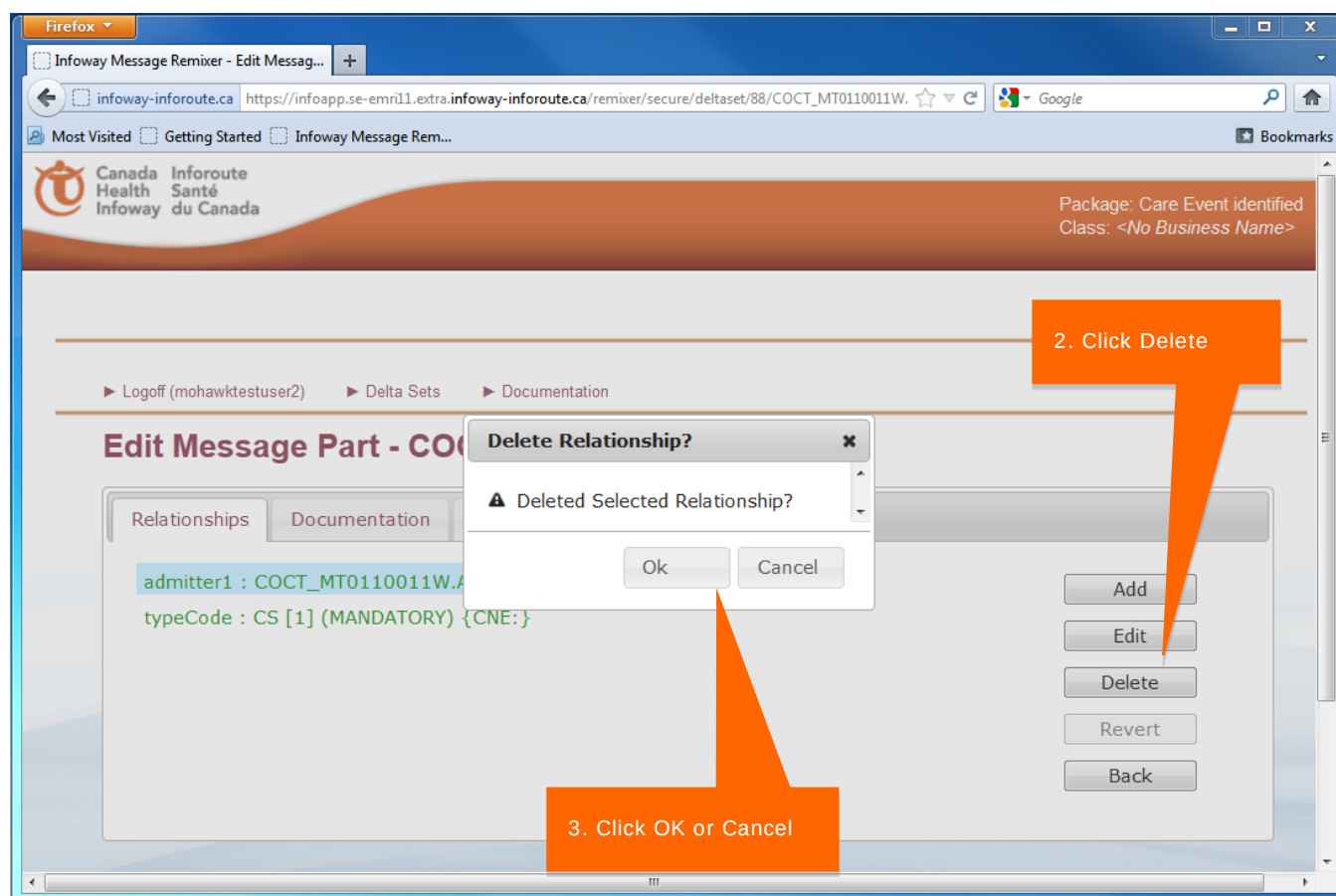


Figure 44 - Delete a Relationship

5.2.4 Define Documentation of a Delta

A “Documentation” change allows the addition or change of a business name as well as a variety of types of annotations to classes, associations, attributes or specializations.

Define a documentation of an existing Delta.

1. Select the Documentation tab of the Edit message panel.
2. Provide a Business Name.
3. Click the plus sign button to add annotations.
4. Select the Type from the drop down list.
5. Provide New Value.
6. A text editor will be displayed allowing input of New Values.
7. Click OK or Cancel to save the New Value.
8. Click (-) minus sign button to delete an annotation.
9. Click Save to save Documentation or Cancel.

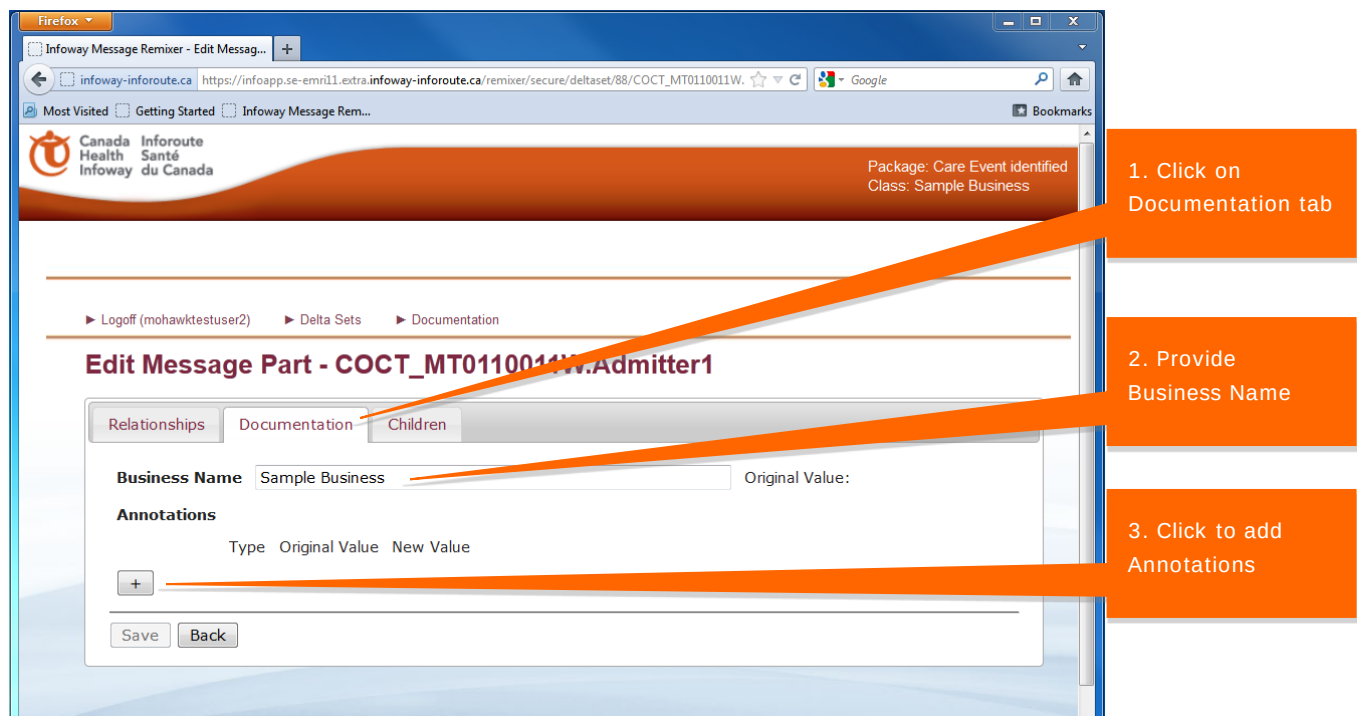


Figure 45 - Define a Documentation

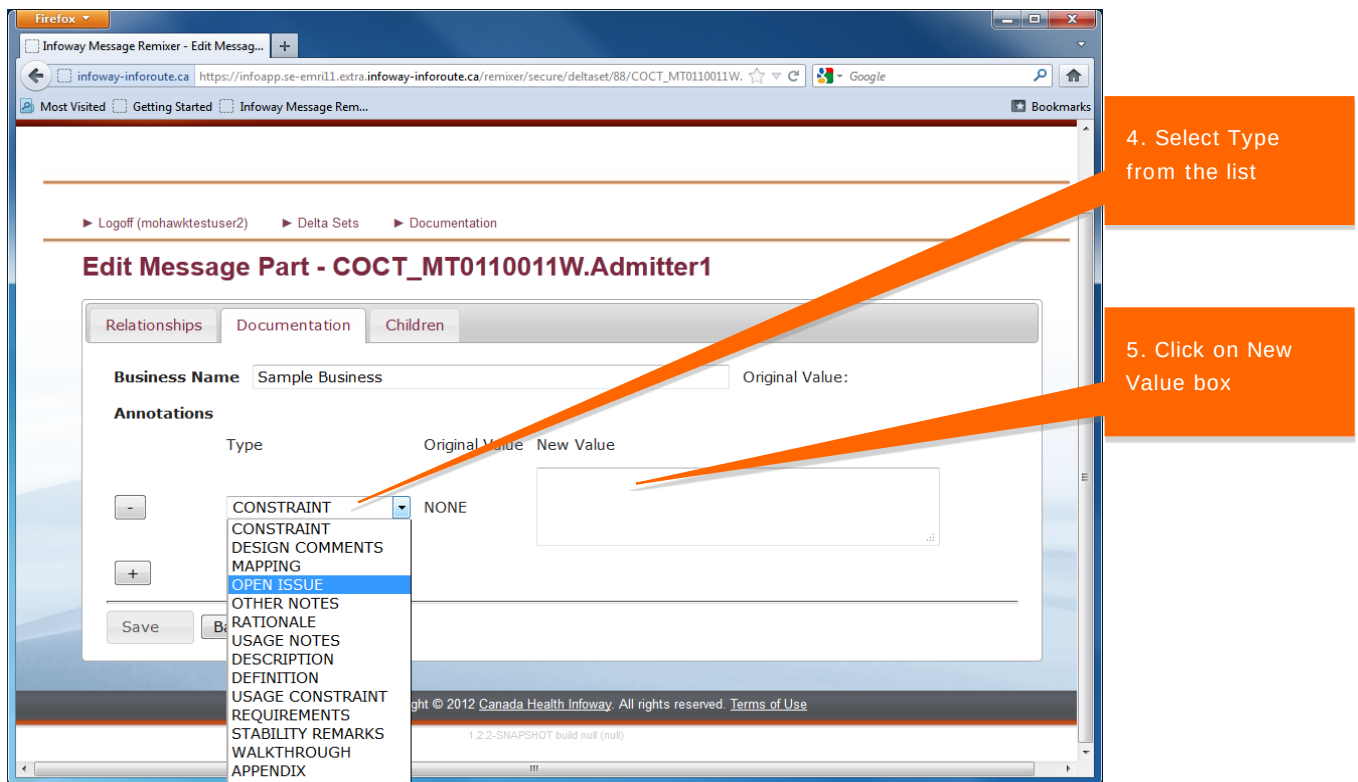


Figure 46 - Add Annotations

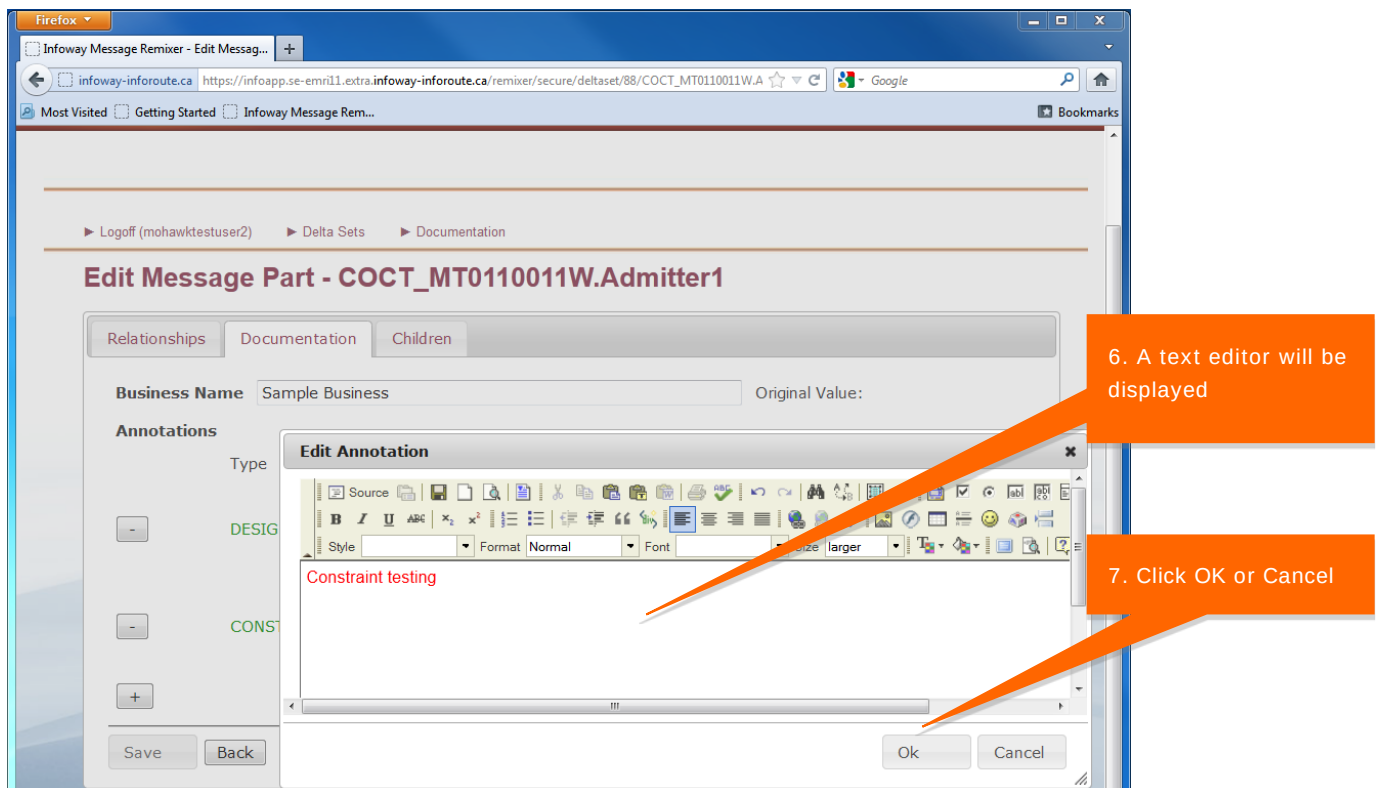


Figure 47 - Add a New Value to an Annotation

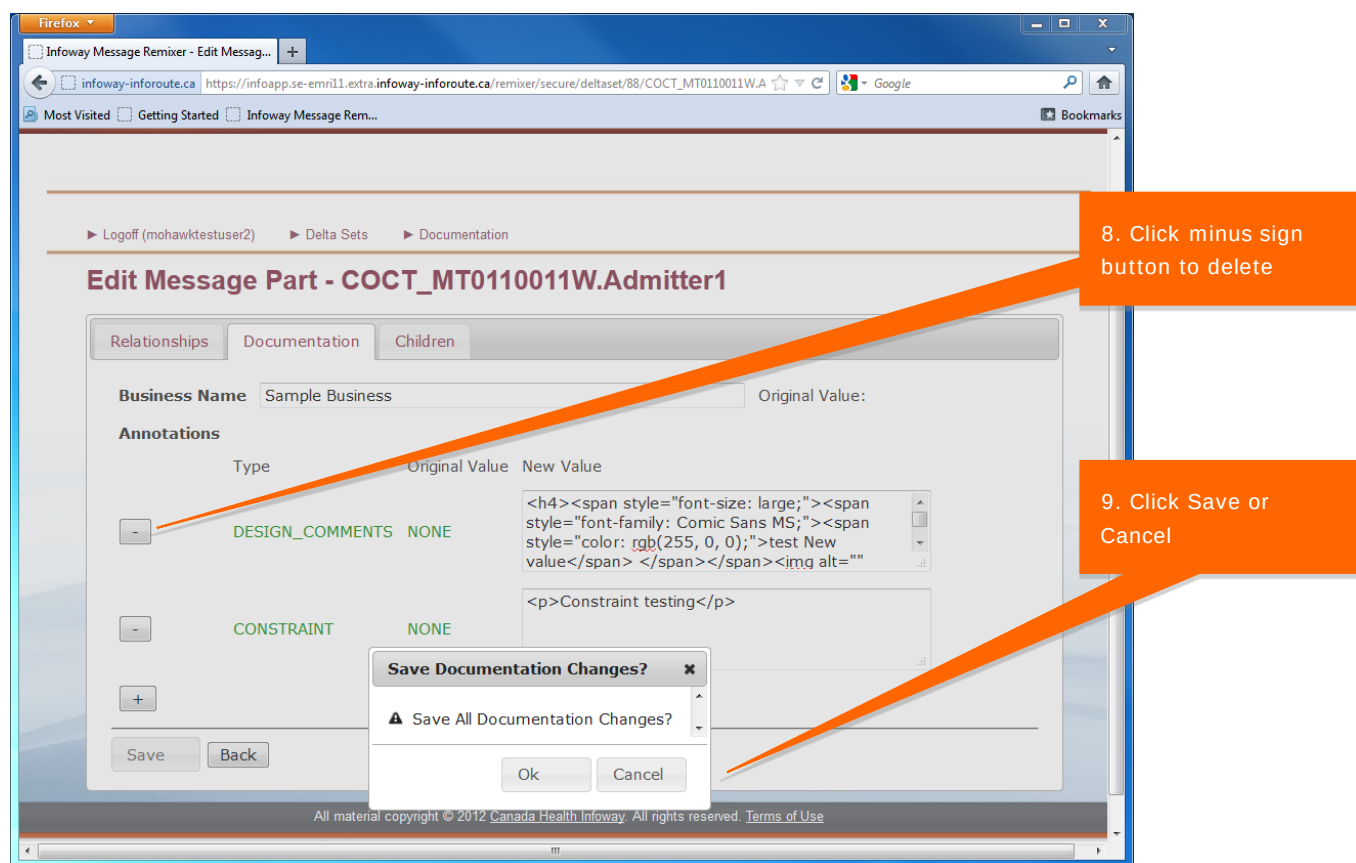


Figure 48 - Delete an Annotation

5.2.5 Define Children of a Delta

Define children of an existing Delta.

1. Select the Children tab of the Edit message panel.
2. Click Add button.
3. Specify the names of the Message Parts to include. Type in the first 4 letters of an interaction, a drop down list will be displayed.
4. Click Save or Cancel.
5. Added children are displayed in the list.
6. Click Remove if a specific child needs to be deleted.
7. Click OK to confirm a delete or Cancel.

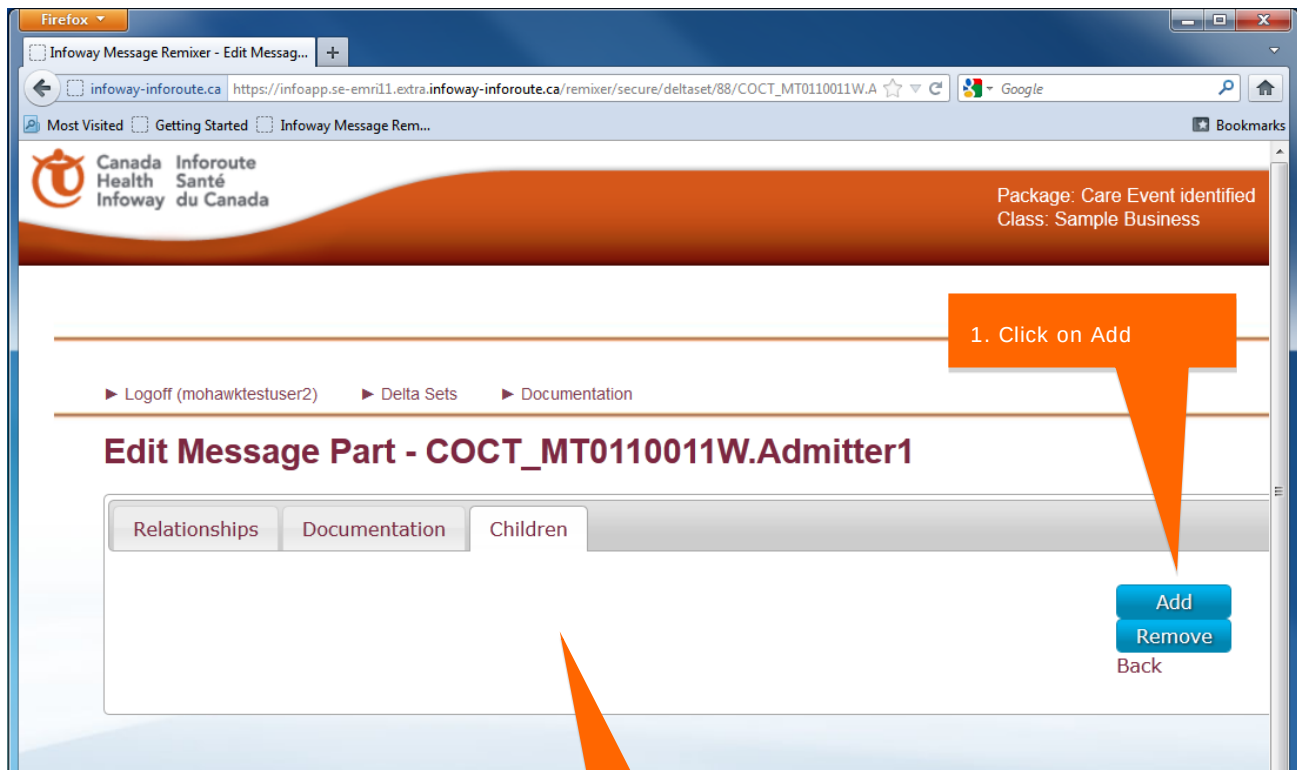


Figure 49 - Define Children

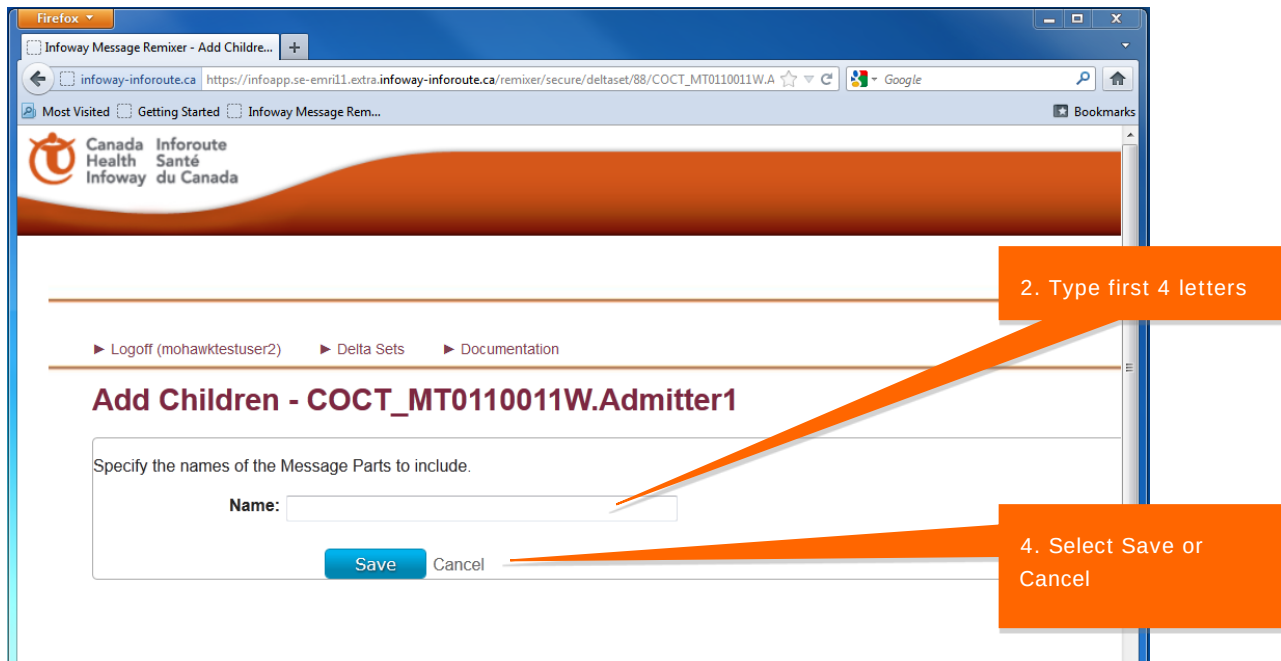


Figure 50 - Add a Message Part to Include

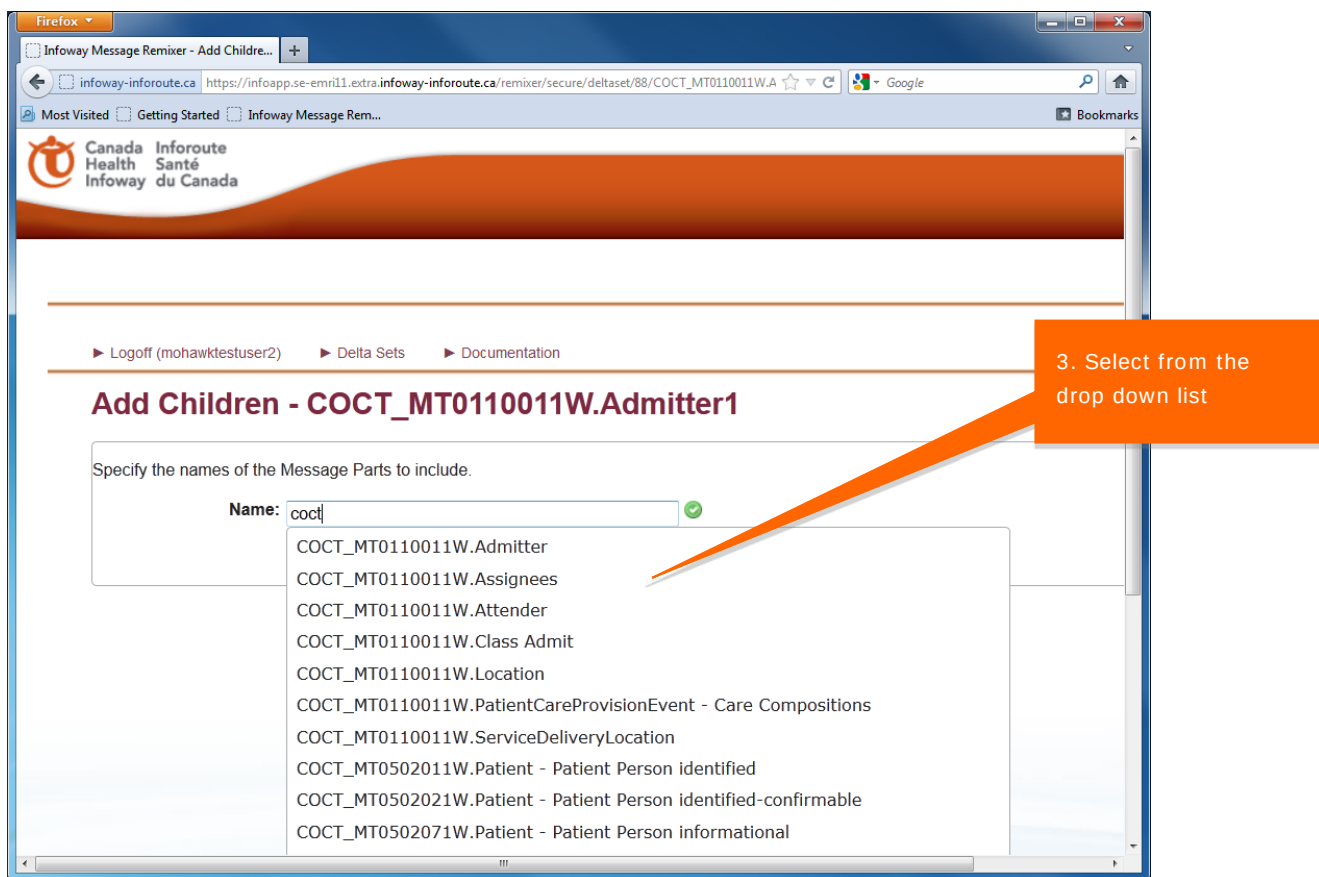


Figure 51 - Select Message Part Names

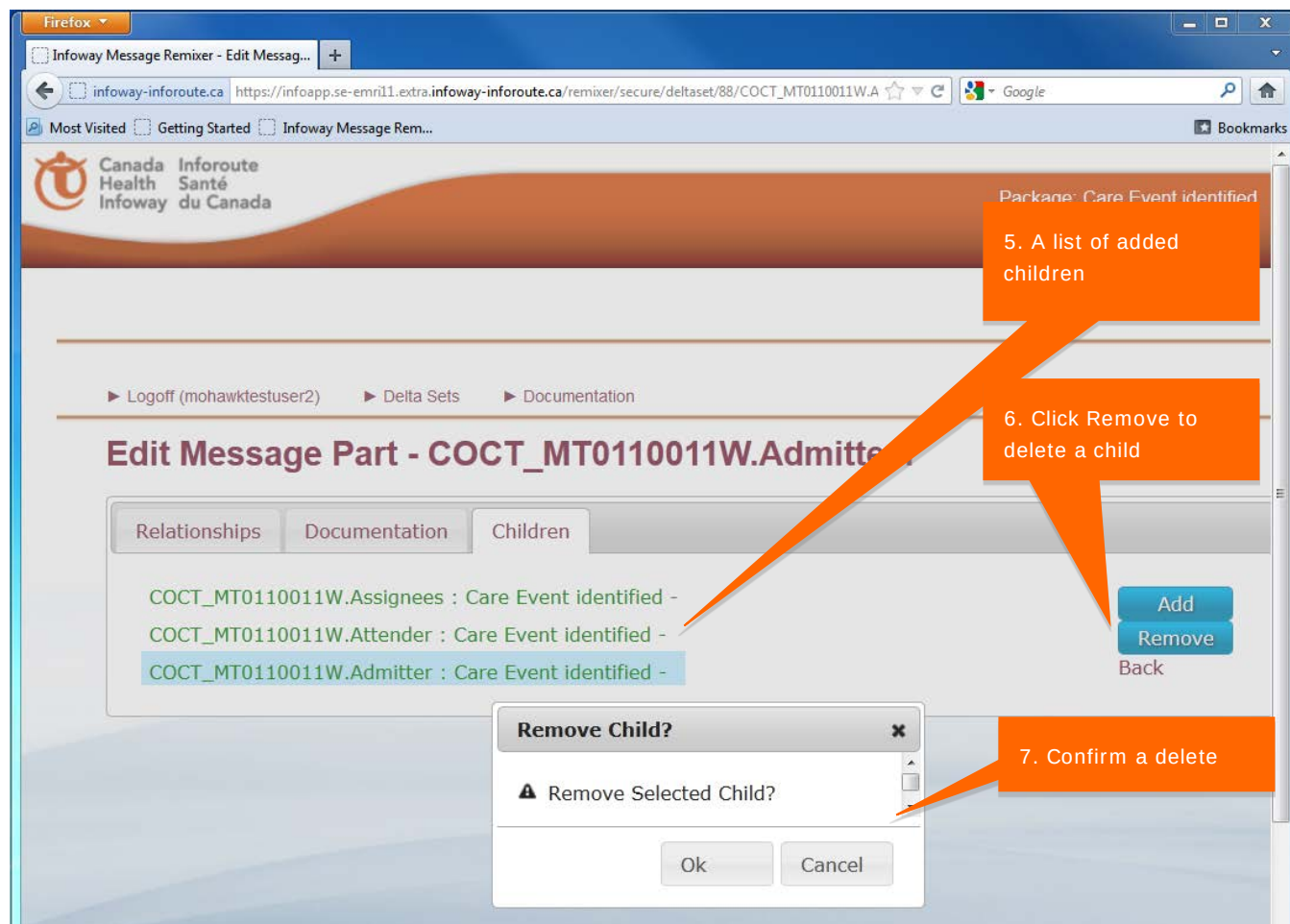


Figure 52 - Remove a Selected Child

5.3 Edit an Interaction in Delta Set

1. Expand on Interactions.
2. Click on Edit button once it's activated.
3. A Documentation tab will show containing the Message part details. Change the Business Name.
4. Click Save to save your changes. Click Back to go back to Tree View without saving any changes.
5. Click Ok for confirmation or Cancel to cancel.

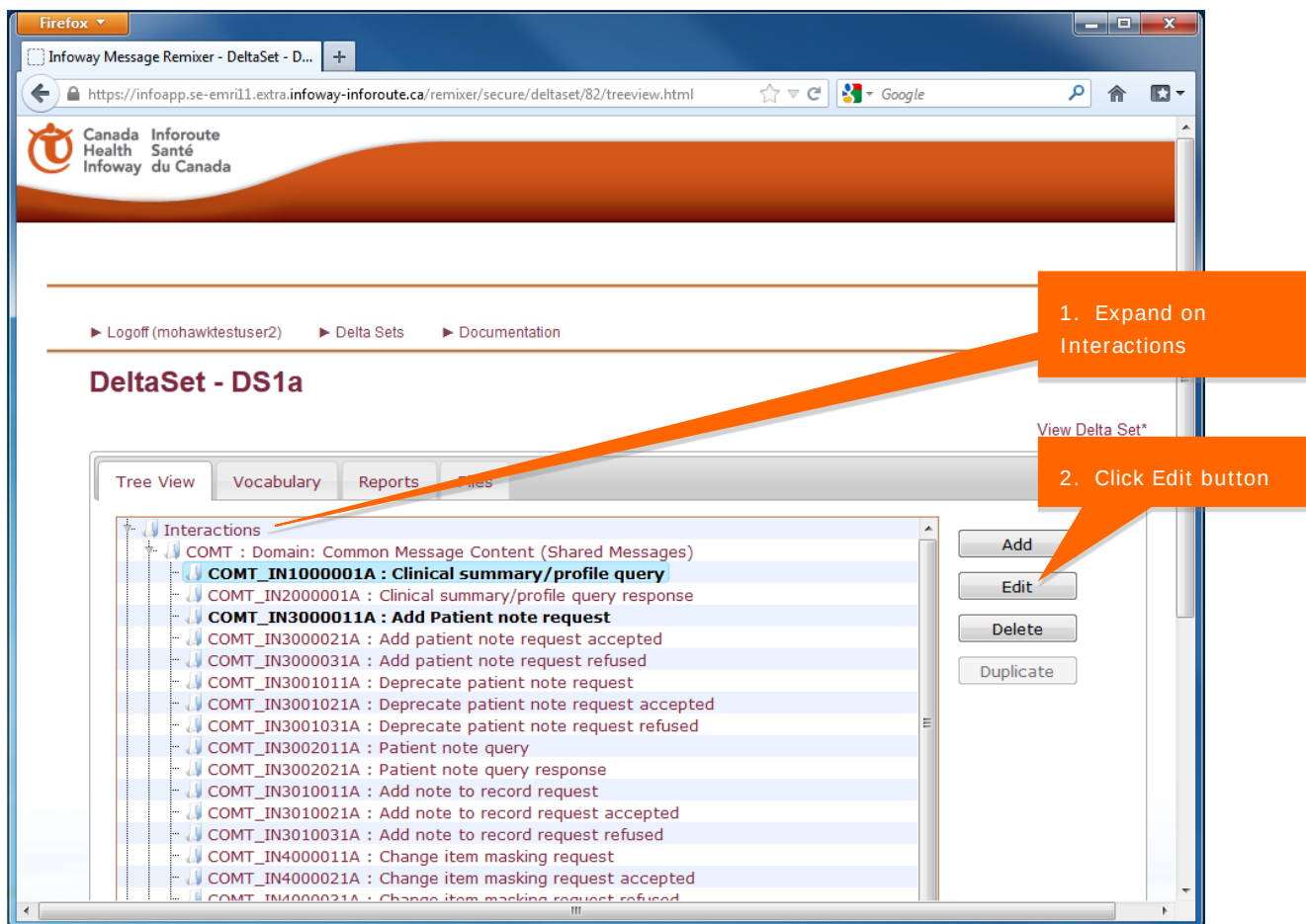


Figure 53 - Edit an Interaction

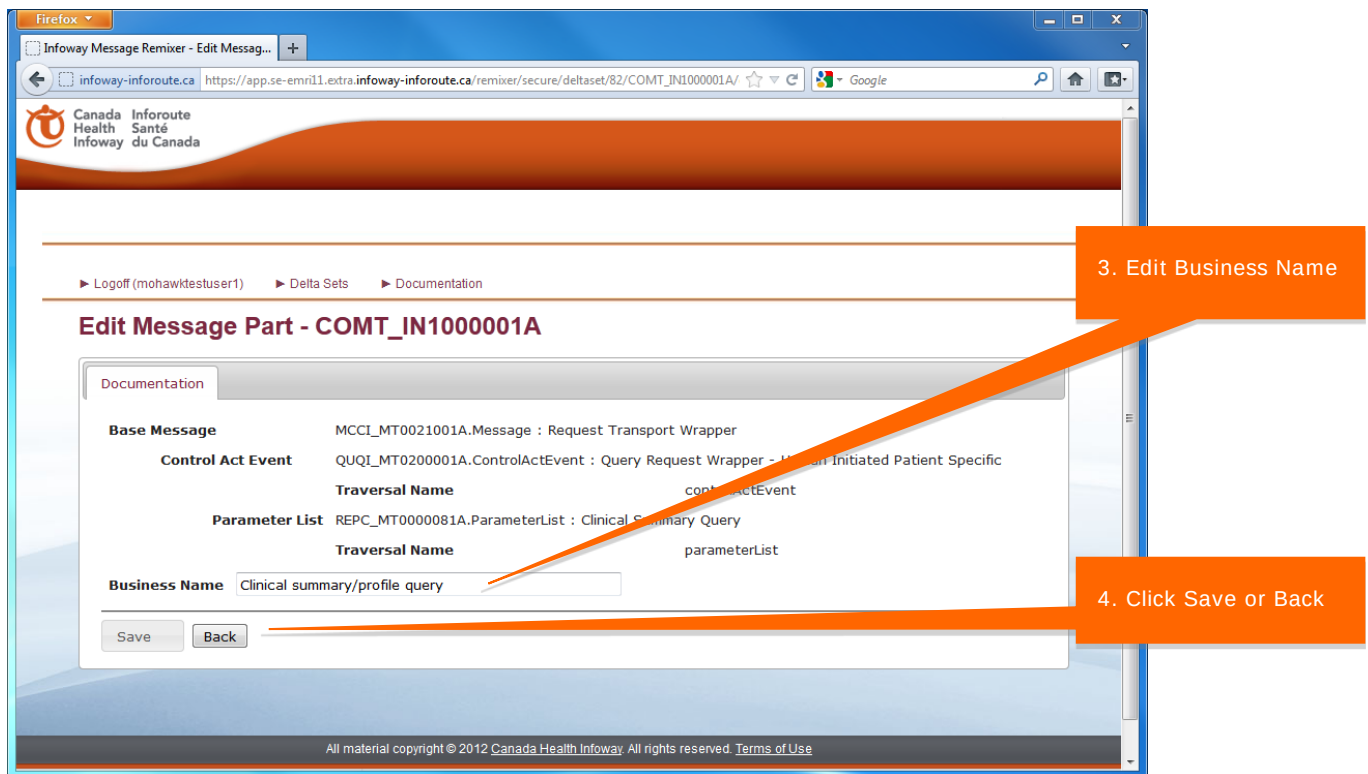


Figure 54 - Edit a Message Part of an Interaction

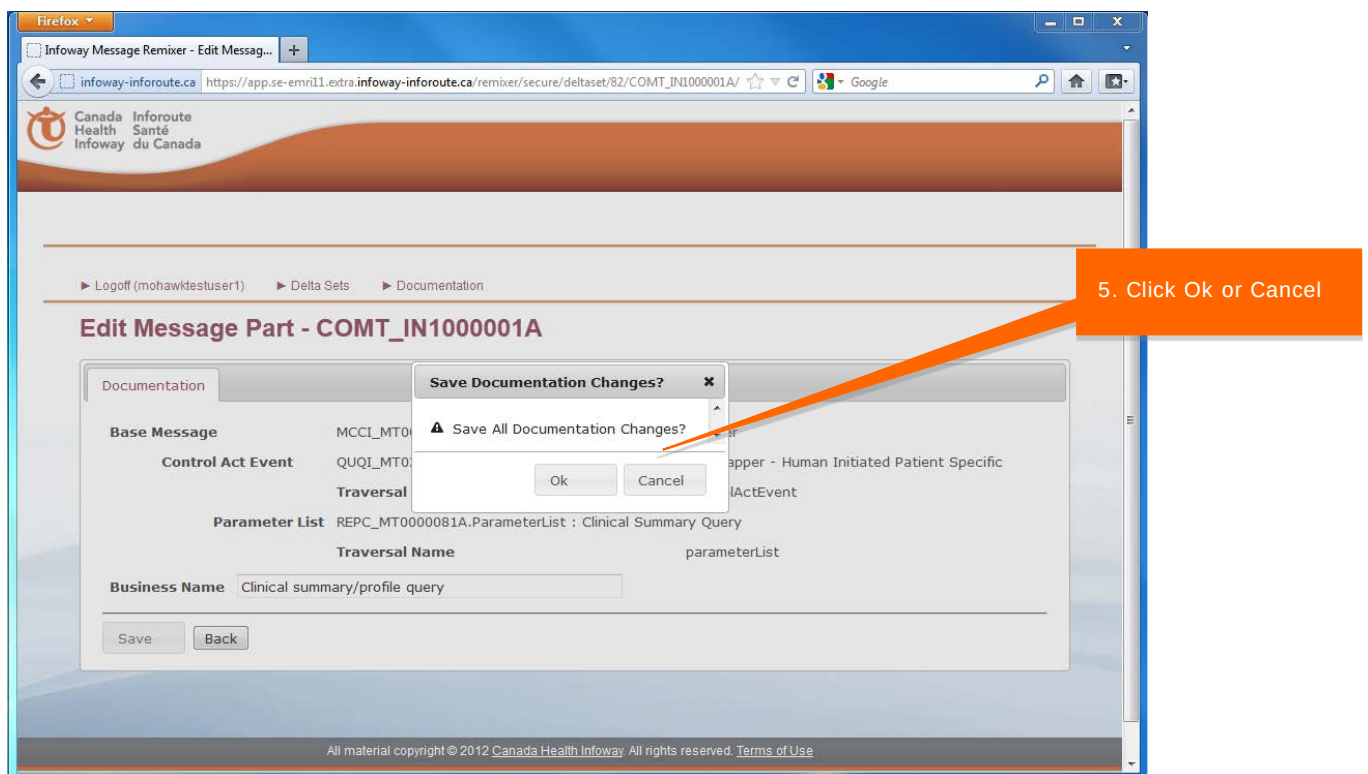


Figure 55 - Confirm Changes

5.4 Delete Message Part in Delta Set

1. Expand on the Interactions.
2. Select a message part to delete.
3. Click the Delete button when it becomes active
4. Click Save or Cancel on the Confirmation page.



All instances of the use of the relationship and classes will be removed

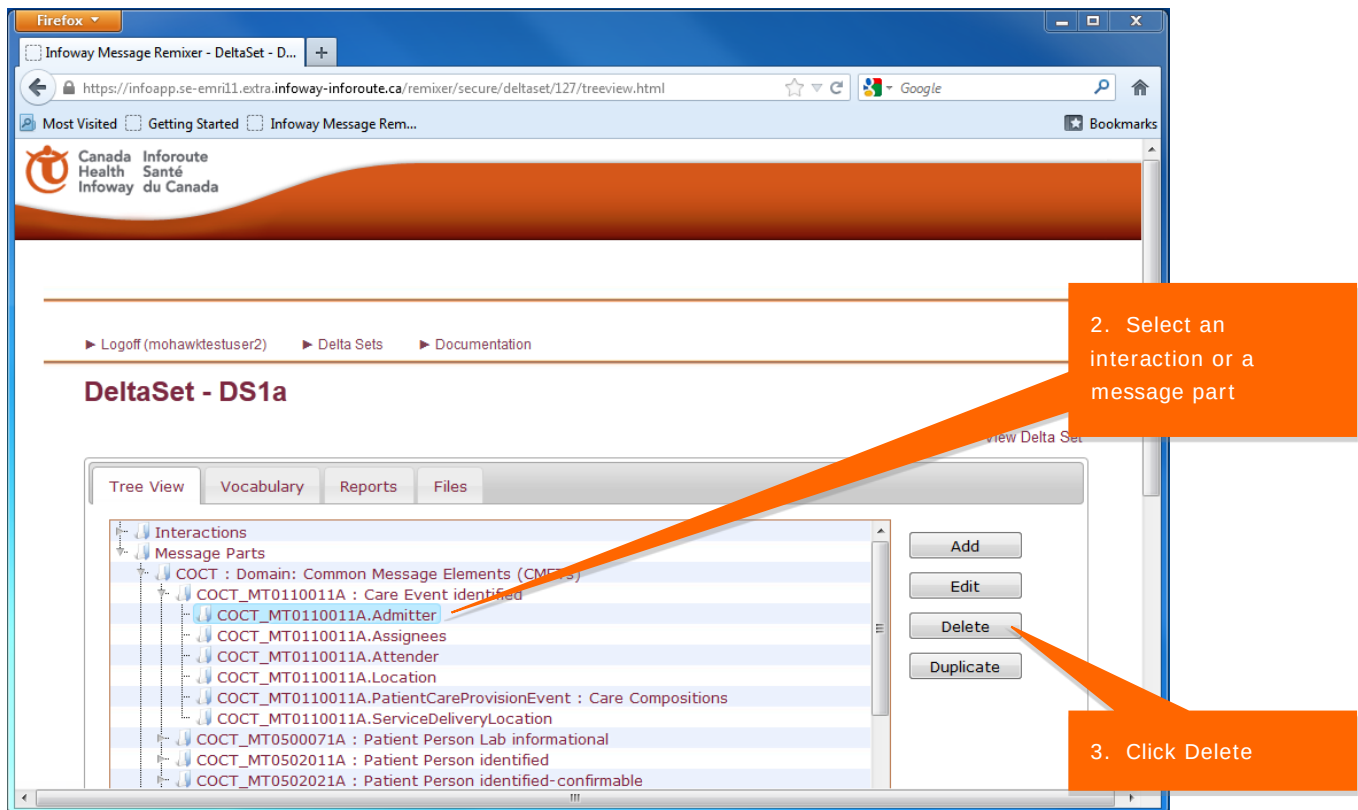


Figure 56 – Delete Message Parts

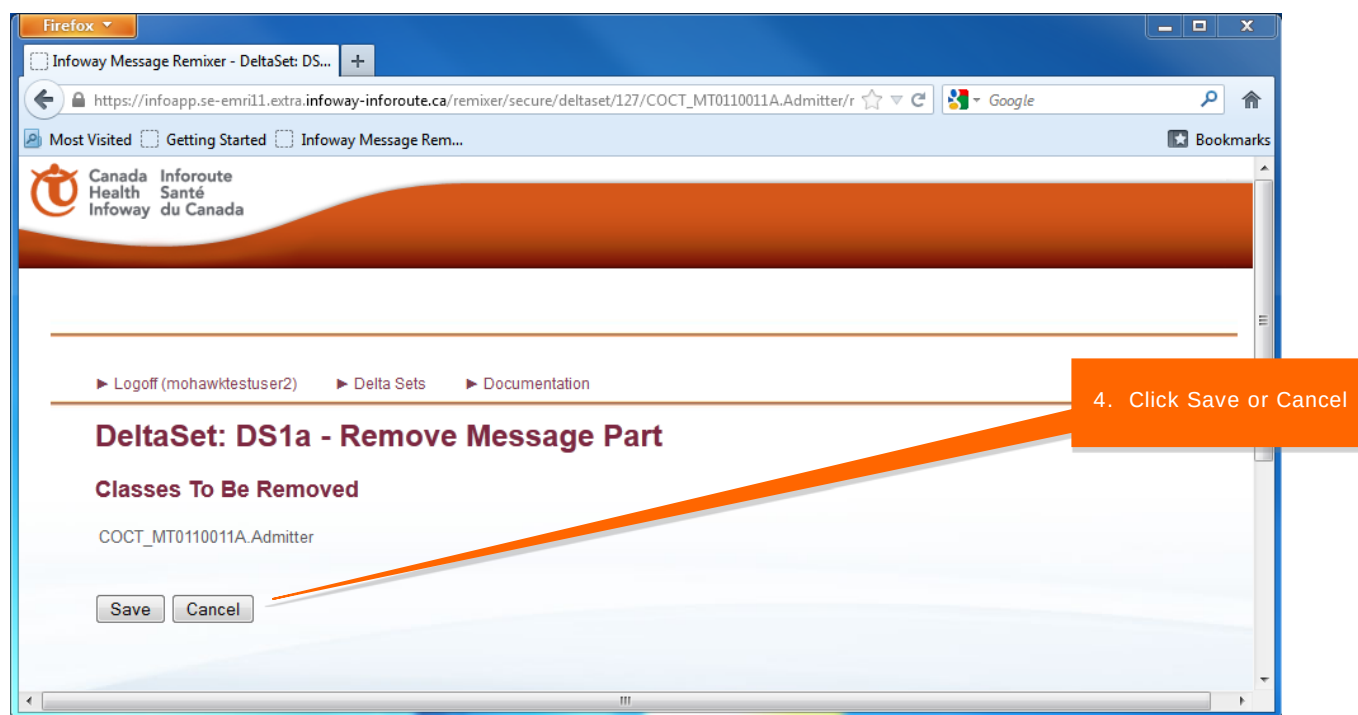


Figure 57 – Confirm Delete

5.5 Duplicate Message Parts

1. Expand on Message Parts.
2. Expand the list to the class level list. Select a Part Name.
3. Click Duplicate button.
4. Edit the Part Name drop-down list and provide a unique name.
5. Click Save or Cancel.

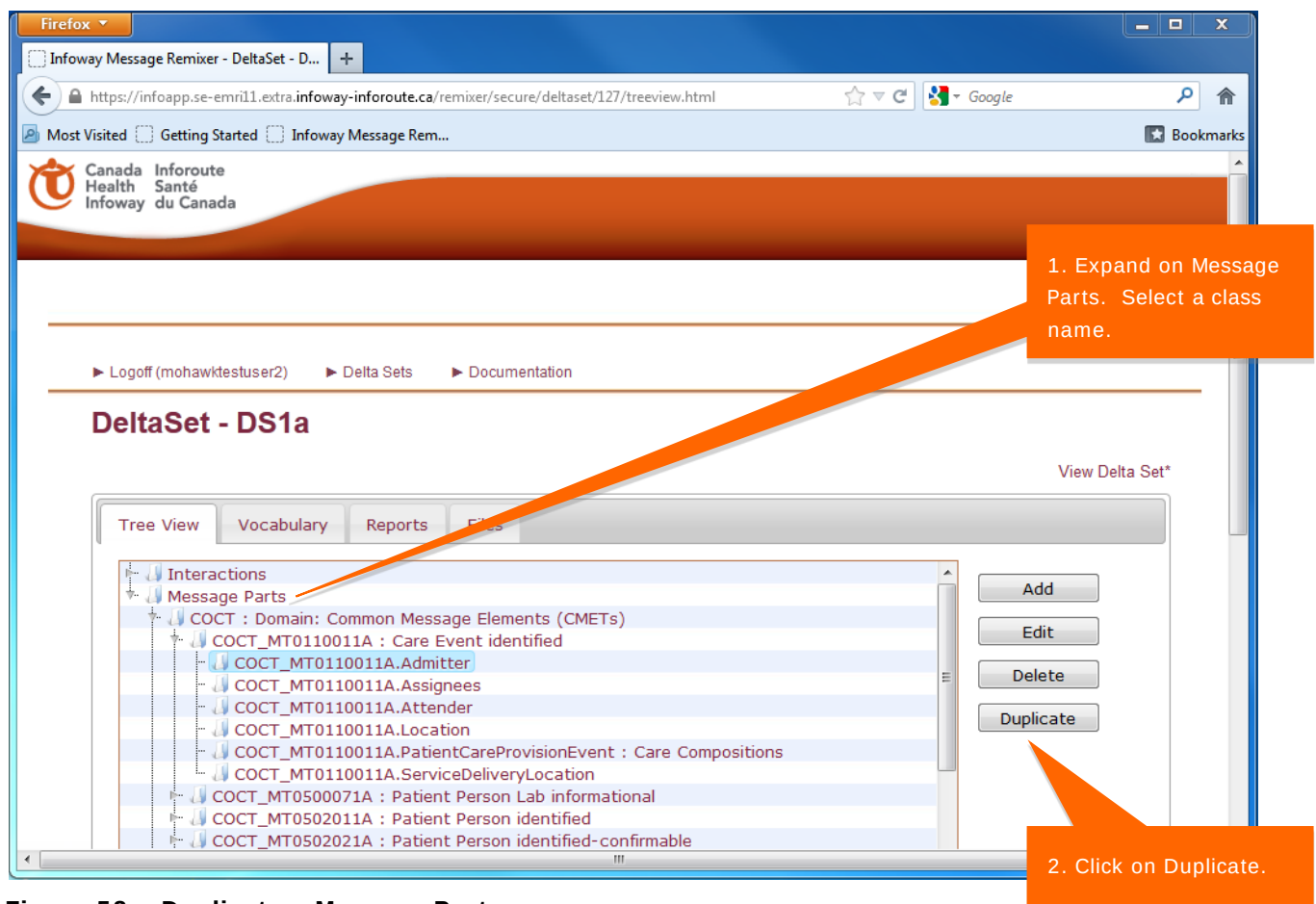


Figure 58 – Duplicate a Message Part

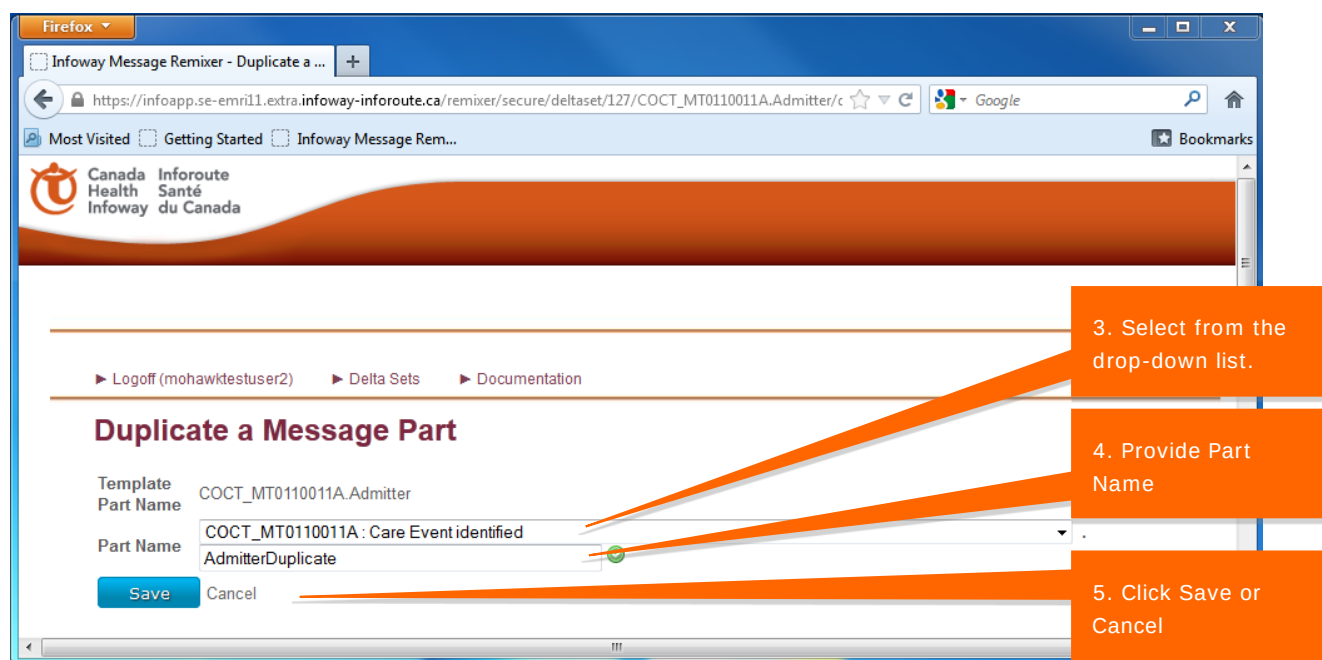


Figure 59 – Provide Part Name

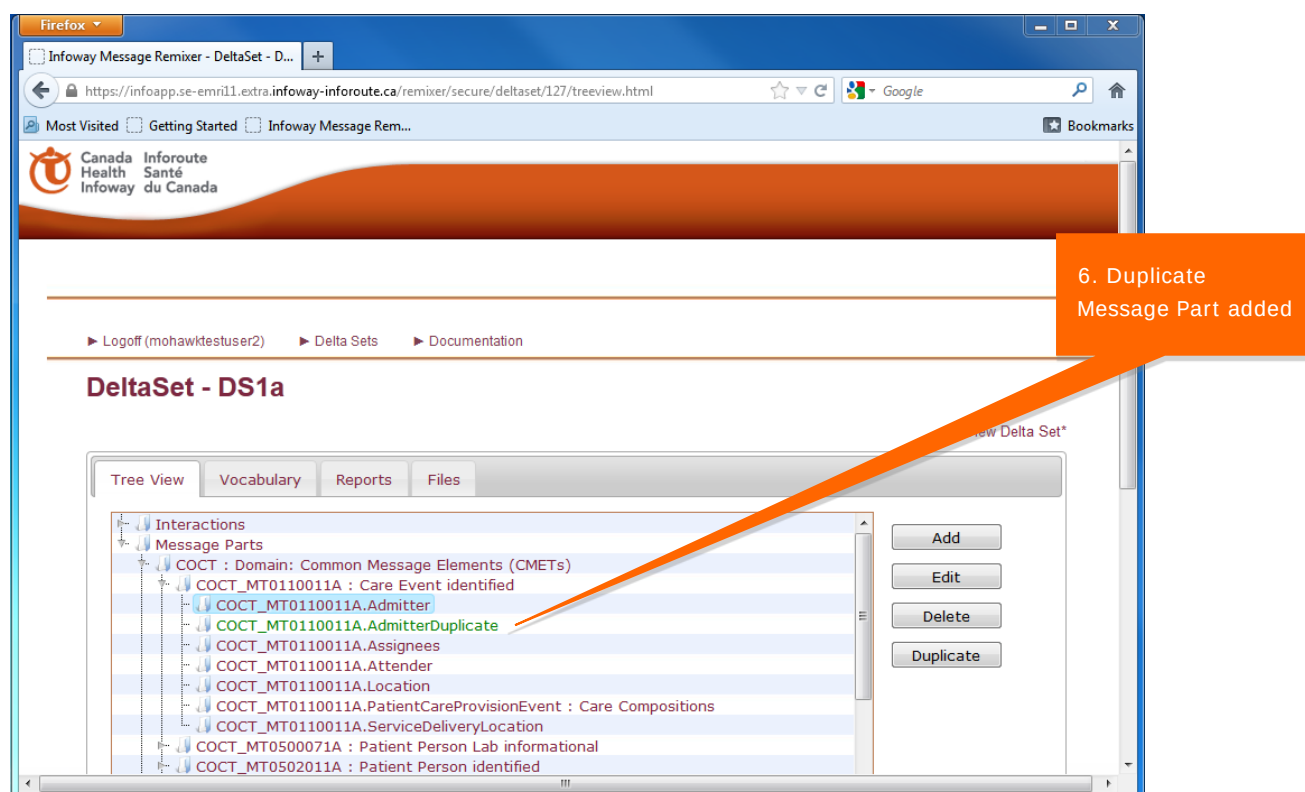


Figure 60 – Duplicate Message Part Added

6 Vocabulary

6.1 Add a New Vocabulary Part

1. Select the Vocabulary tab.
2. Click on Add to add a new vocabulary part.
3. See Section 6.1.1 for guidelines on how to add Code Systems
4. See Section 6.1.2 for guidelines on how to add Value Sets

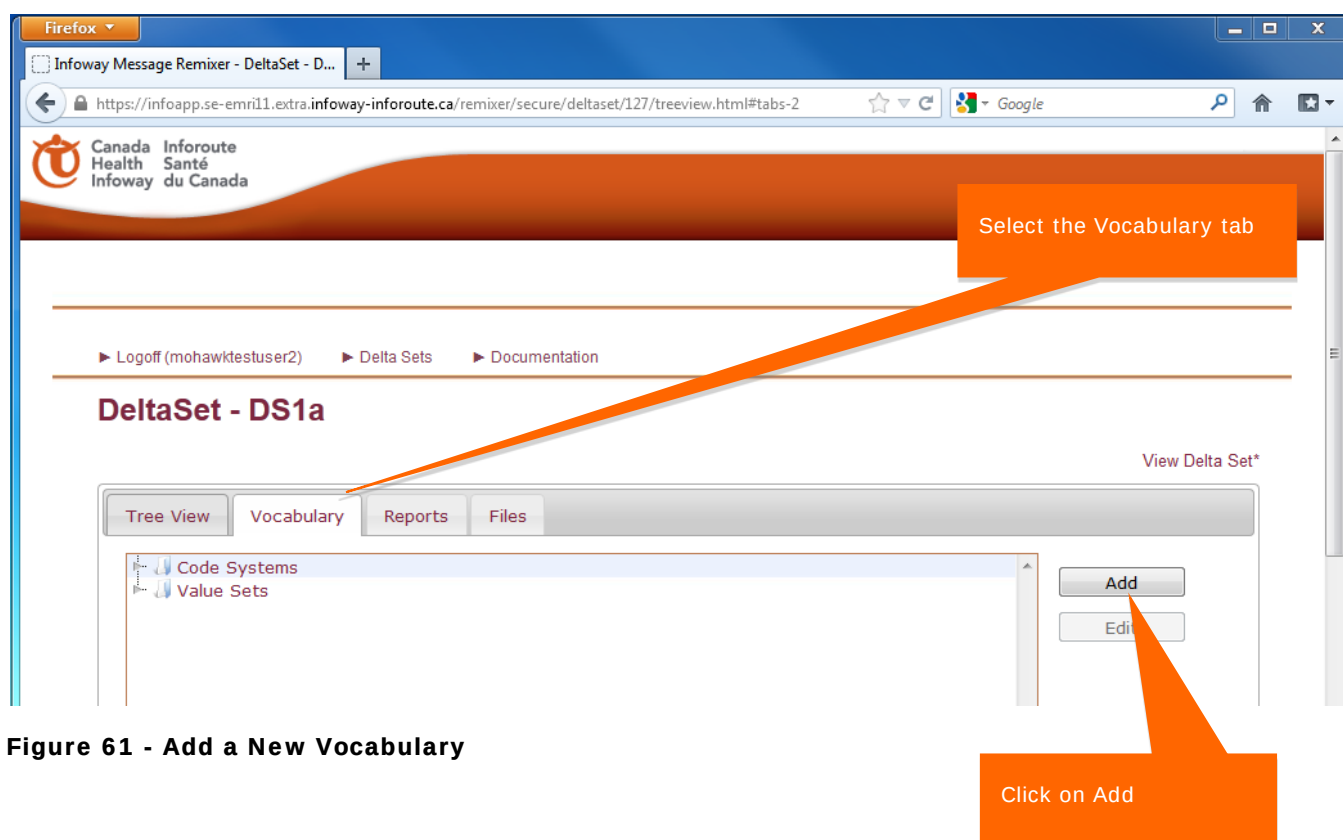


Figure 61 - Add a New Vocabulary

6.1.1 Add a New Code System

1. Select Code System tab.
2. Provide the Code System Name.
3. Provide the Code System OID.
4. Click Save or Cancel.

The screenshot shows a web browser window titled 'Infoway Message Remixer - Add Vocabulary'. The address bar shows the URL: <https://infoapp.se-emri11.extra.infoway-inforoute.ca/remixer/secure/deltaset/127/addVocabulary.html>. The page header includes the Infoway logo and the text 'Canada Inforoute Health Santé Infoway du Canada'. Below the header, there are links for 'Logoff (mohawktester2)', 'Delta Sets', and 'Documentation'. The main heading is 'Add Vocabulary Part'. There are two tabs: 'Code System' (selected) and 'Value Set'. Below the tabs, a message states: 'To create a new code system, provide the following details.' There are two input fields: 'Code System Name:' and 'Code System OID:'. At the bottom, there are 'Save' and 'Cancel' buttons. Four orange callout boxes with white text and arrows point to specific elements: 1. '1. Select the Code System tab' points to the 'Code System' tab. 2. '2. Provide Code System Name' points to the 'Code System Name' input field. 3. '3. Provide Code System OID' points to the 'Code System OID' input field. 4. '4. Click Save or Cancel' points to the 'Save' and 'Cancel' buttons.

Figure 62 - Add a Code System

6.1.2 Add a New Value Set

1. Select Value Set tab.
2. Provide the Value Set Name.
3. Provide the Value Set OID.
4. Click Save or Cancel.

Firefox

Infoway Message Remixer - Add Vocabu...

https://infoapp.se-emri11.extra.infoway-inforoute.ca/remixer/secure/deltaset/127/addVocabulary.html

Canada Inforoute
Health Santé
Infoway du Canada

► Logoff (mohawktestuser2) ► Delta Sets ► Documentation

Add Vocabulary Part

Code System Value Set

To create a new value set, provide the following details.

Value Set Name:

Value Set OID:

Save Cancel

1. Select the Value Set tab

2. Provide Value Set Name

3. Provide Value Set OID

4. Click Save or Cancel

Figure 63 - Add a Value Set

6.2 Edit a Code System

1. Expand on Code Systems.
2. Select a Code System Name.
3. Click Edit button.
4. In the Specifications tab, provide Name and OID. See Section 6.2.1.
5. Click Save or Cancel.
6. For the Concepts tab, see Section 6.2.2.

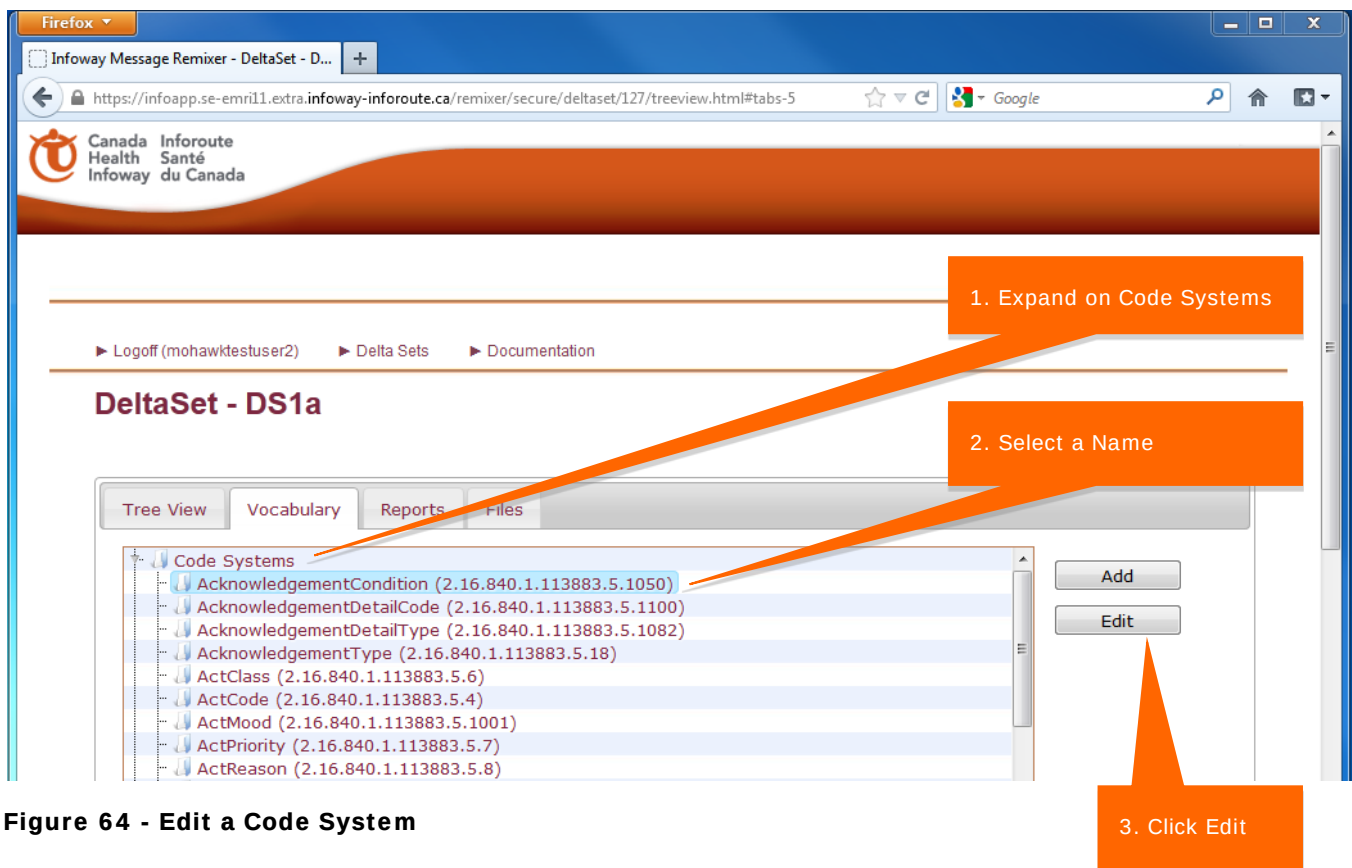


Figure 64 - Edit a Code System

6.2.1 Edit Code Specifications

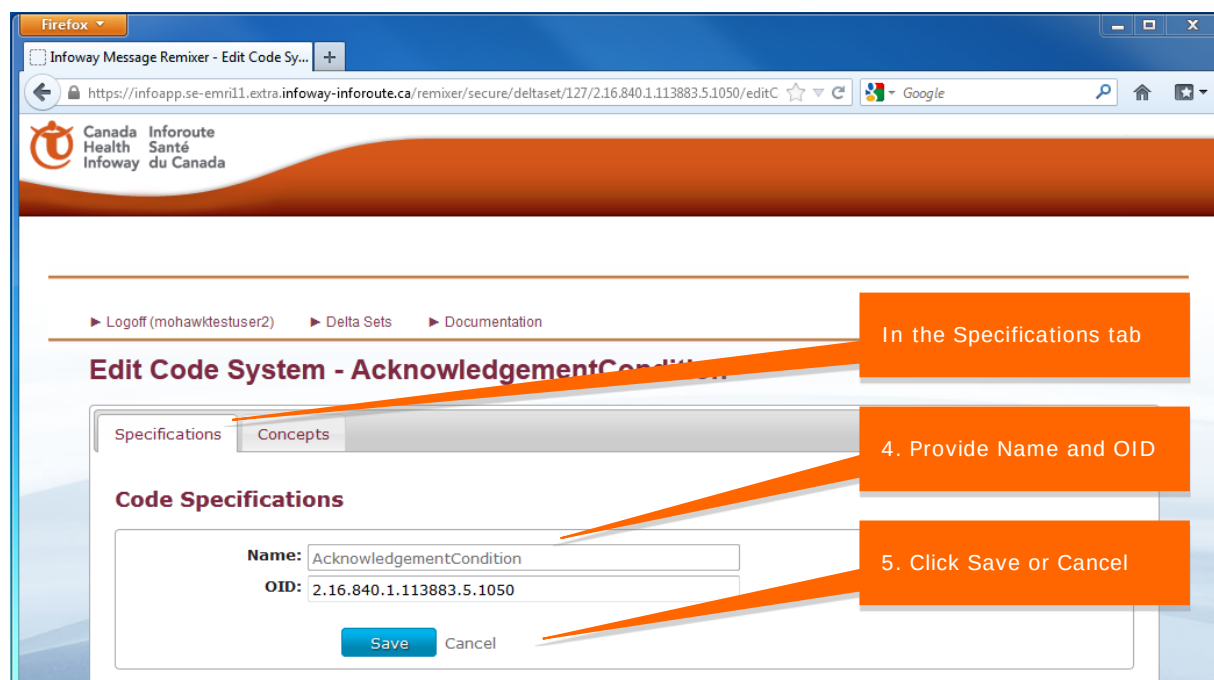


Figure 65 - Edit Code Specifications

6.2.2 Edit Code System Concepts

Code Concepts can be edited with the following functions:

1. **View** – see Section 6.2.2.1 for user guidelines.
2. **Add** – see Section 6.2.2.2 for user guidelines.
3. **Retire** – see Section 6.2.2.3 for user guidelines.

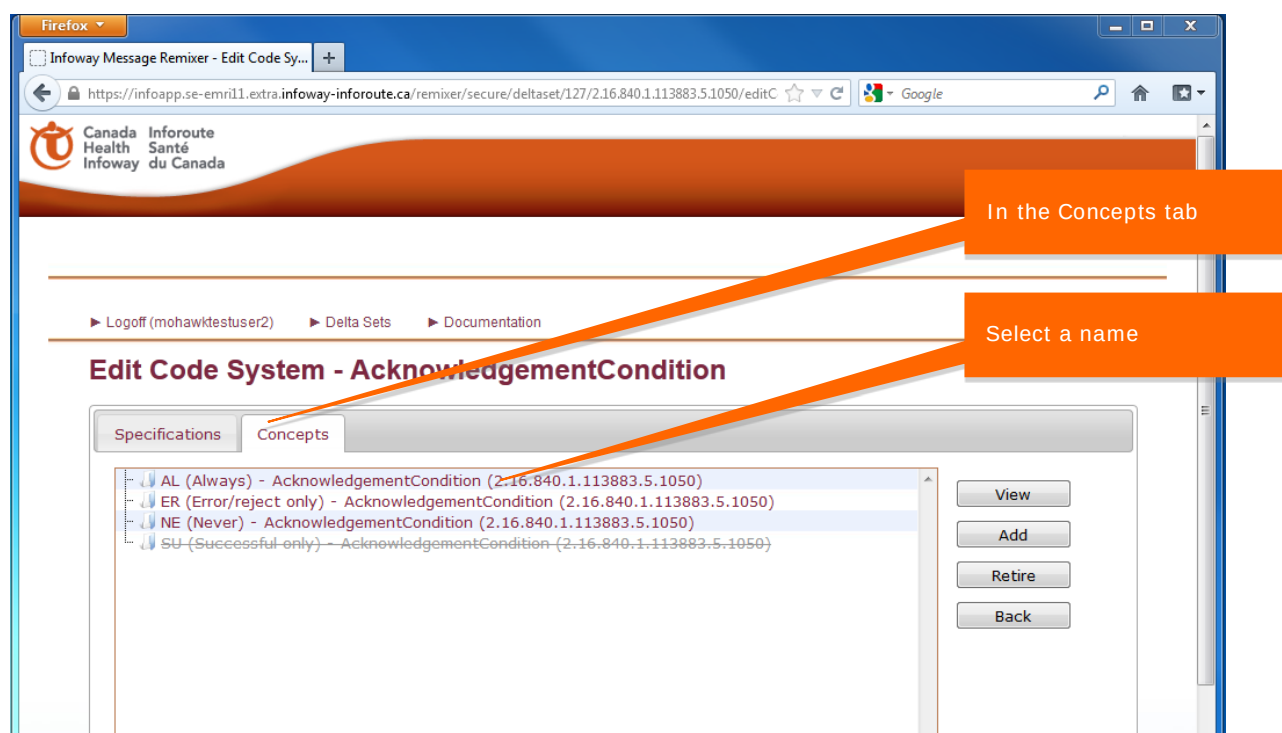


Figure 66 - Edit Code System Concepts

6.2.2.1 View Concept Details

Click on View to show Code Specifications and Affected Value Sets(Pls. add more descriptions)

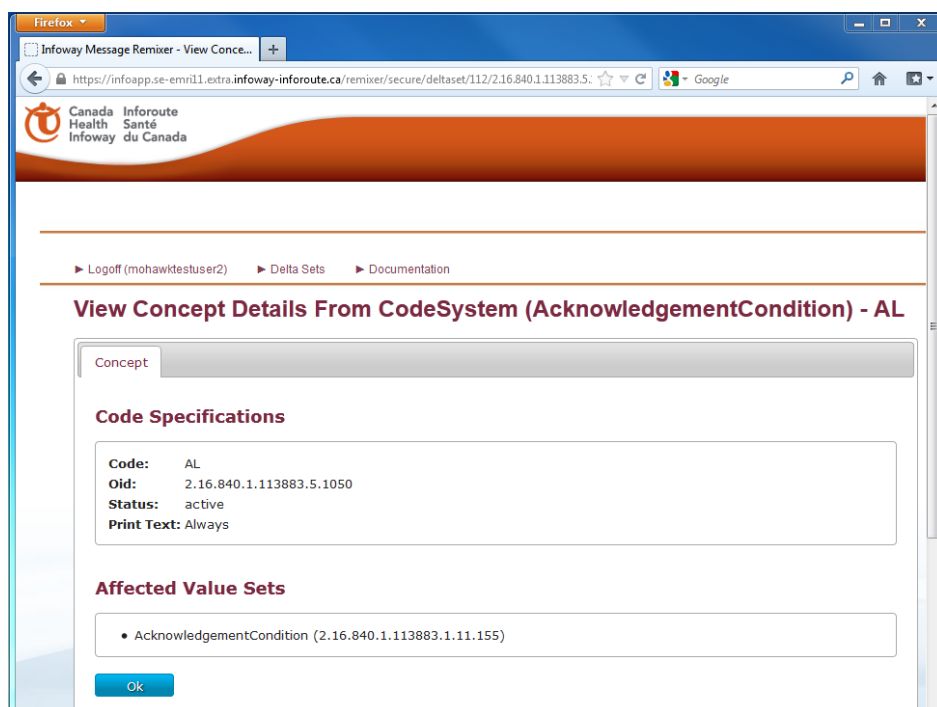


Figure 67 - View Concept Details

6.2.2.2 Add a New Concept Code

The screenshot shows a web browser window titled 'Infoway Message Remixer - Add Concep...'. The address bar shows the URL: <https://infoapp.se-emri11.extra.infoway-inforoute.ca/remixer/secure/deltaset/127/2.16.840.1.113883.5.1050/addN>. The page header includes the Infoway logo and the text 'Canada Inforoute Health Santé Infoway du Canada'. Below the header, there are links for 'Logoff (mohawktestuser2)', 'Delta Sets', and 'Documentation'. The main heading is 'Add Concept To Code System - AcknowledgementCondition'. The form is titled 'Add Concept To Value Set'. It contains the instruction: 'To add a new concept code to the selected code system, provide the following details.' There are two input fields: 'Code:' with the value 'CS' and a green checkmark, and 'Print Text:' which is empty. At the bottom of the form are 'Save' and 'Cancel' buttons. Three orange callout boxes with arrows point to the form: 'Provide Code' points to the 'Code:' field, 'Provide Text' points to the 'Print Text:' field, and 'Click Save or Cancel' points to the 'Save' and 'Cancel' buttons.

Figure 68 - Add Concept Details

6.2.2.3 Retire Concept Details

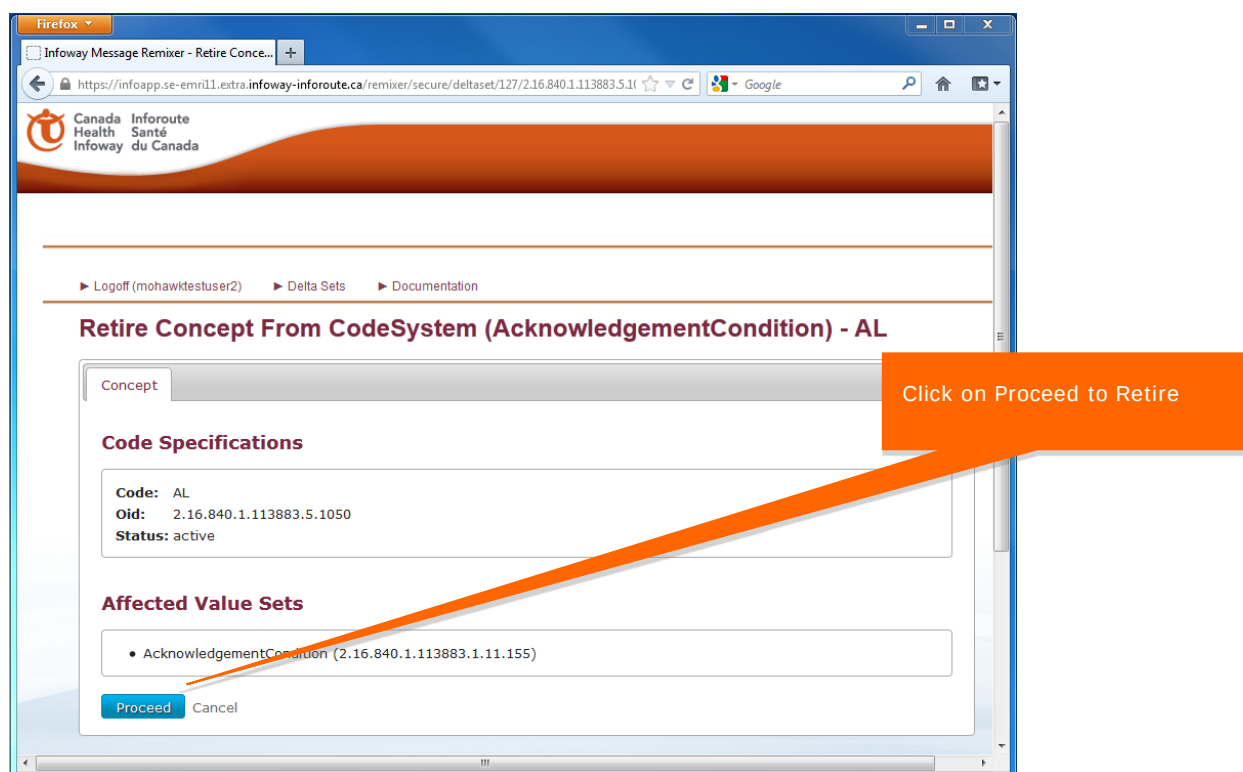


Figure 69 - Retire Concept

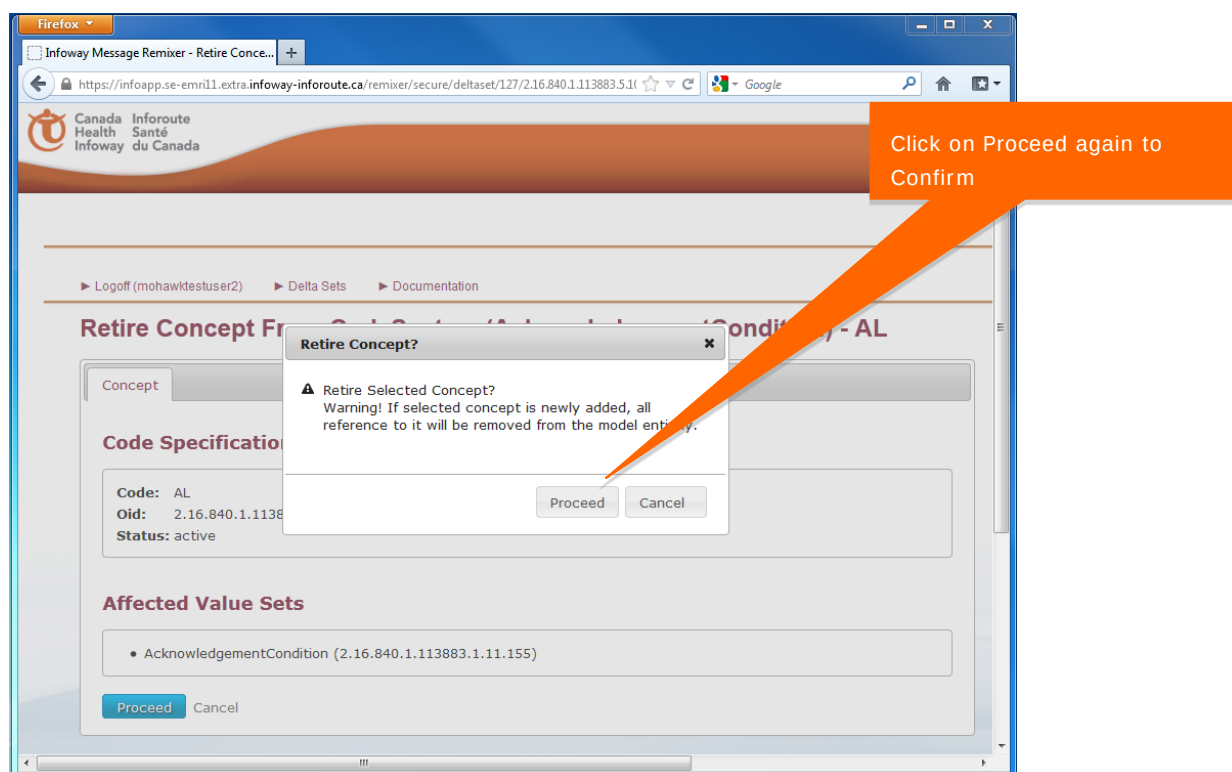


Figure 70 - Confirm Retire Concept

6.3 Edit a Value System

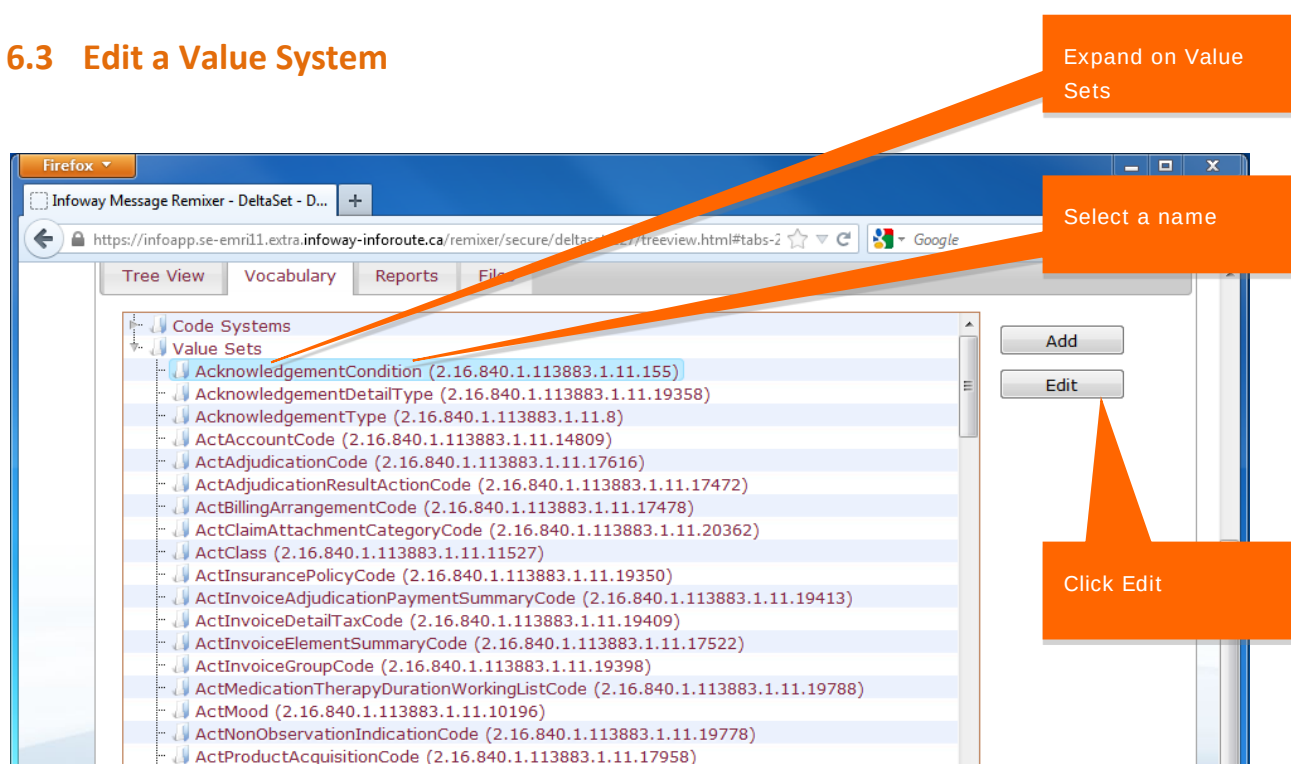


Figure 71 - Edit a Value System

6.3.1 Add a New Concept to a Value Set

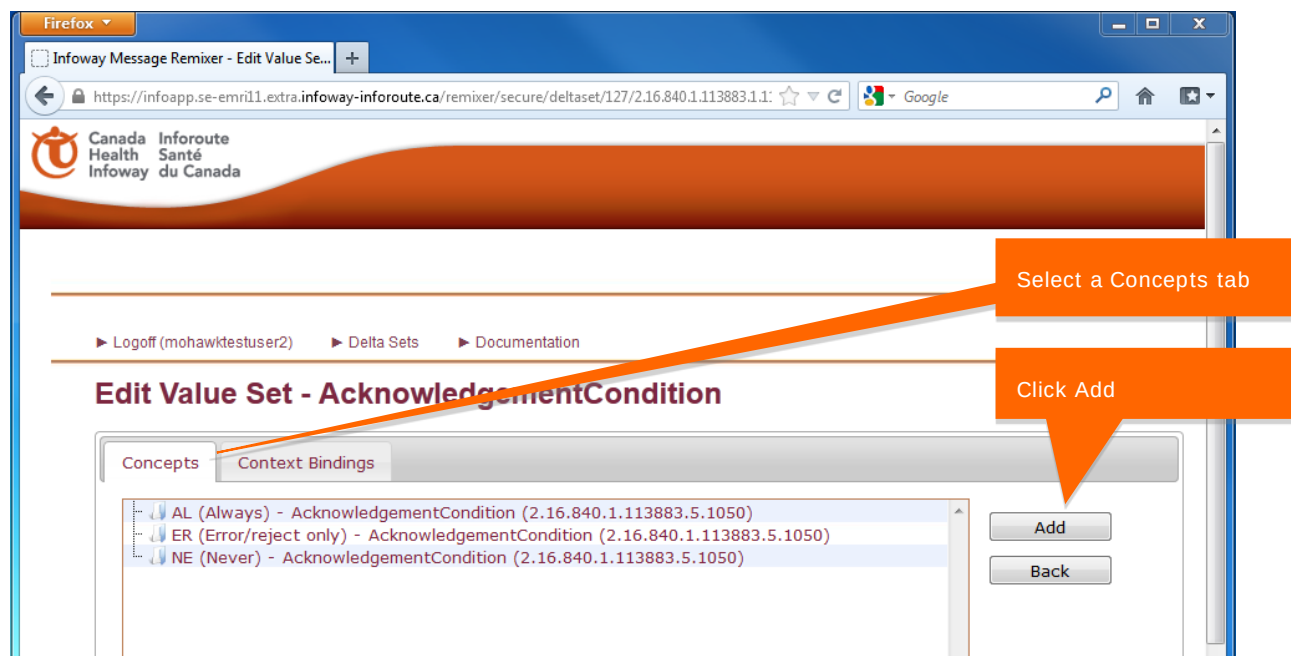


Figure 72 - Add a Concept

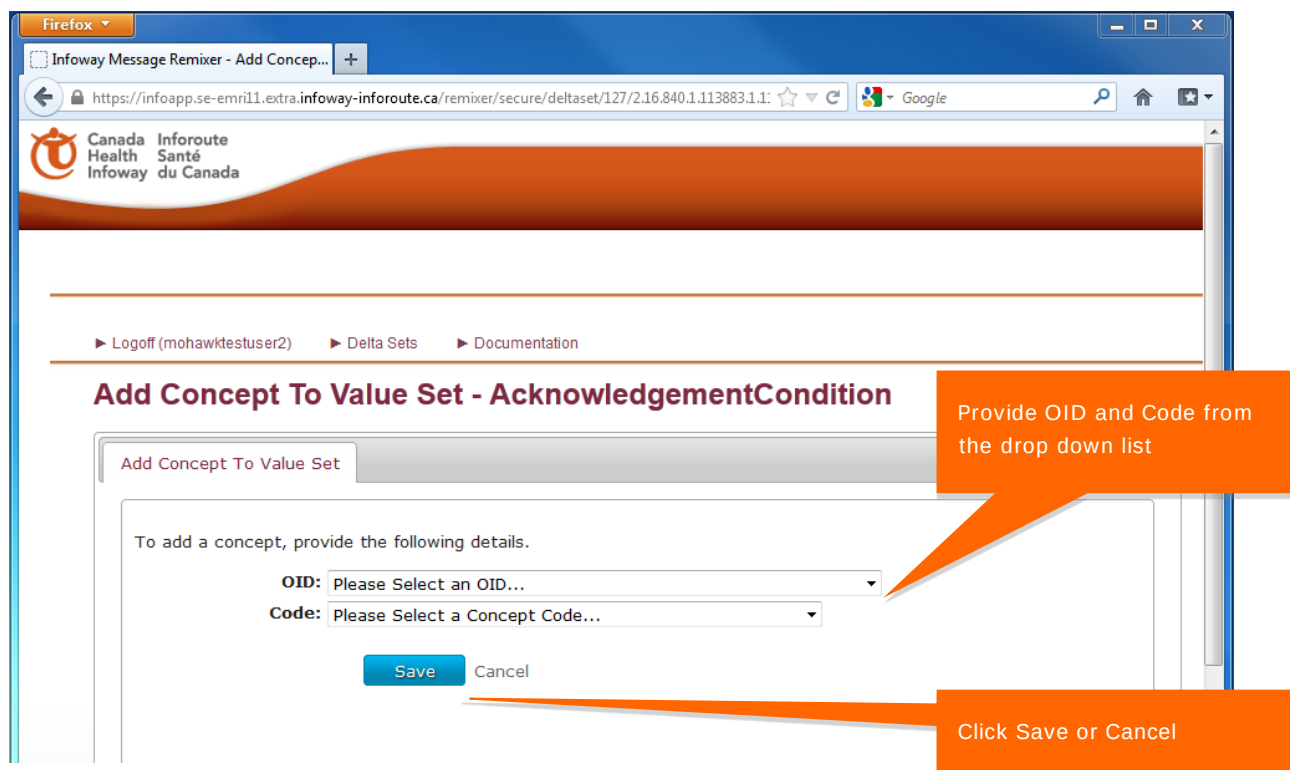


Figure 73 - Add Details of a New Concept

6.3.2 Add New Context Bindings

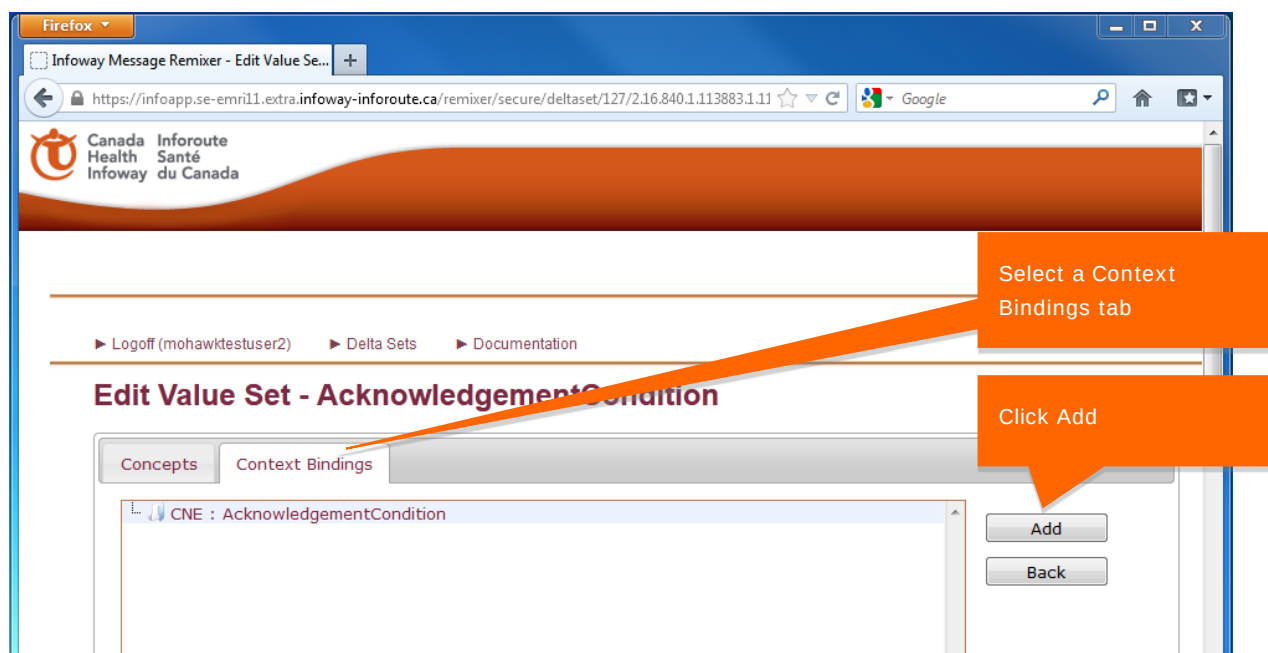


Figure 74 - Add a New Context Binding

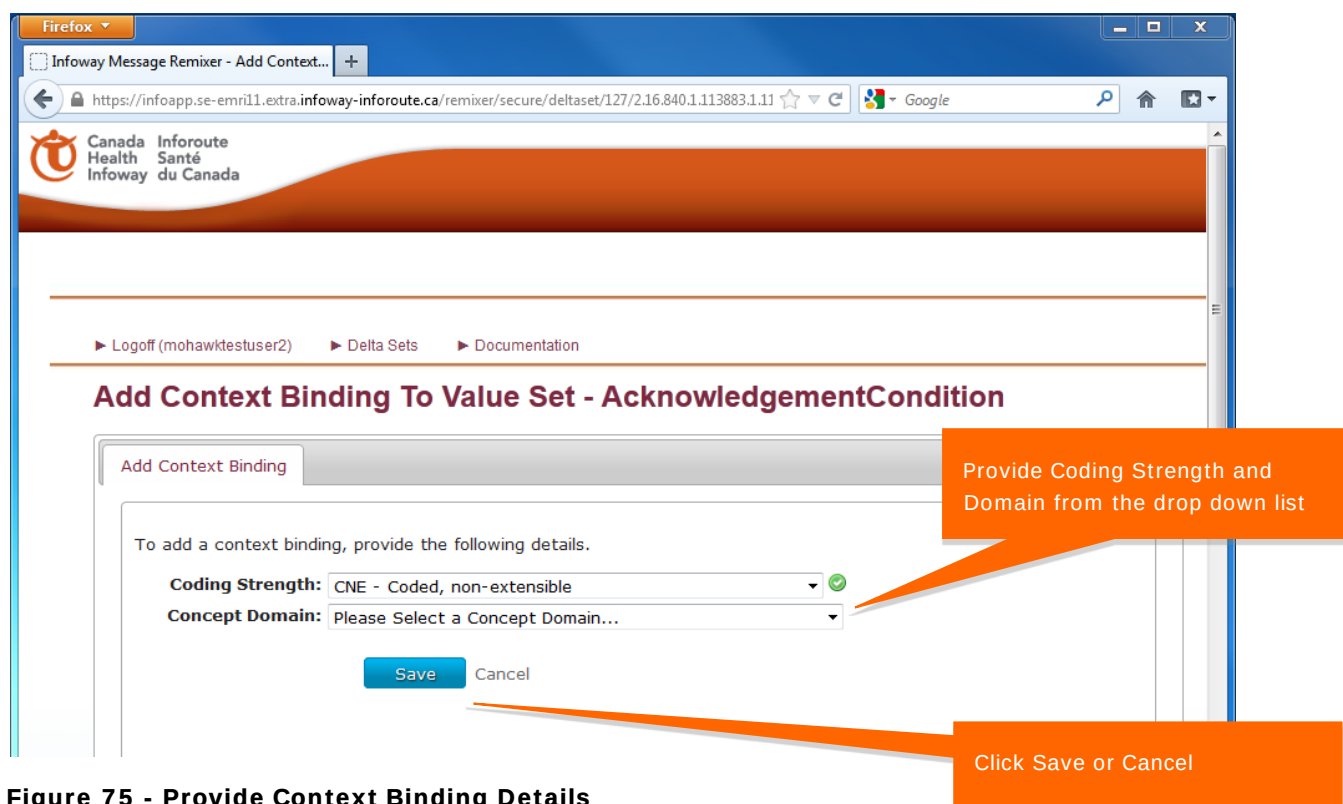


Figure 75 - Provide Context Binding Details

7 Reports

7.1 Change Details Report

The Change Details Report provides a list of the changes made in the selected Delta Set. In addition to displaying the information on the screen, it is possible to download the report as an “xls” file.

1. Select the “Change Details Report”
2. Select “Download Report” if there is a need to manipulate the deltas by sorting.
3. Select to “Open” or “Save” file

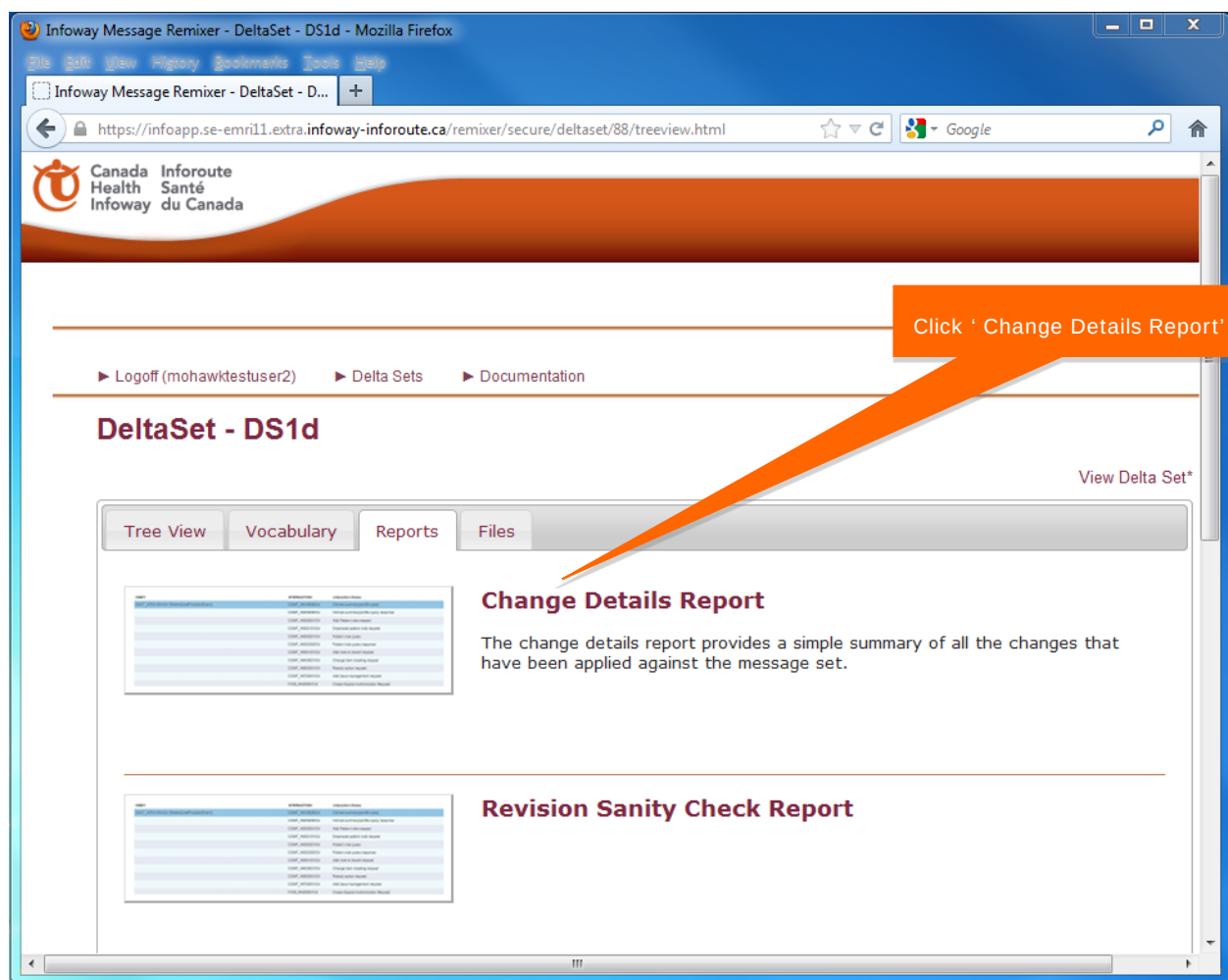


Figure 76- Change Details Report

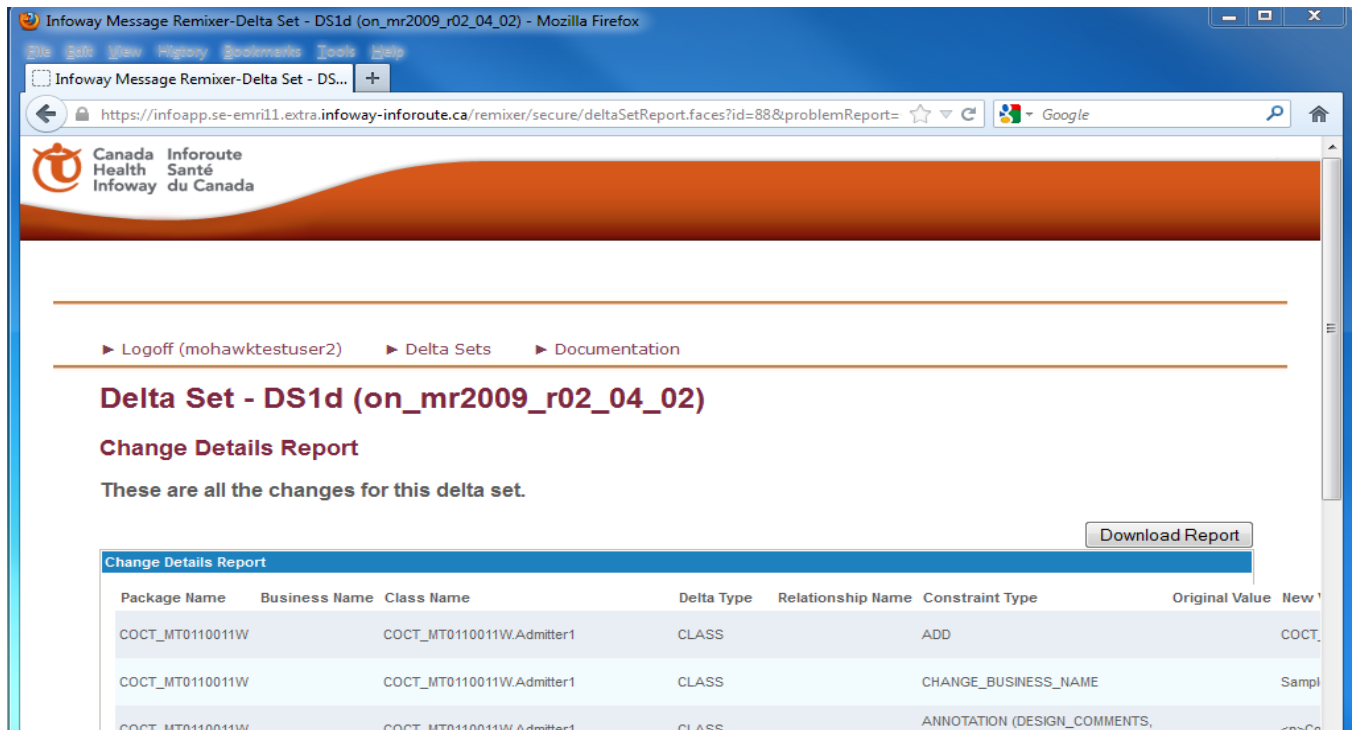


Figure 77- Download Reports

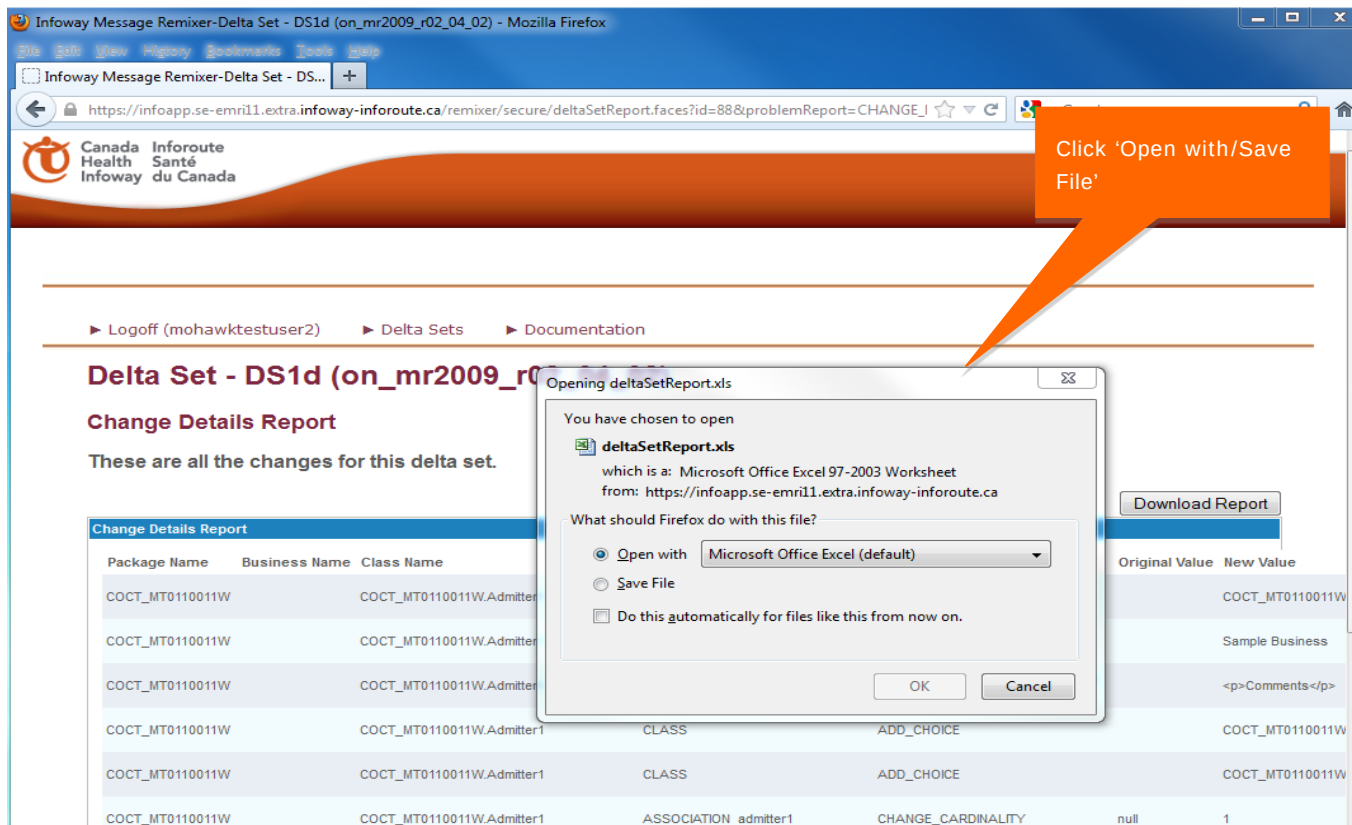


Figure 78- Open/Save Report

	A	B	C	D	E	F	G	H	I
	Package Name	Business Name	Class Name	Delta Type	Relationship Name	Constraint Type	Original Value	New Value	Created By
1	COCT_MT0110011W		COCT_MT0110011W Admitter1	CLASS		ADD		COCT_MT mohawkte	
2	COCT_MT0110011W		COCT_MT0110011W Admitter1	CLASS		CHANGE_BUSINESS_NAME		Sample Bk mohawkte	
3	COCT_MT0110011W		COCT_MT0110011W Admitter1	CLASS		ANNOTATION (DESIGN_COMMENTS, ADD)		<p>Comm mohawkte	
4	COCT_MT0110011W		COCT_MT0110011W Admitter1	CLASS		ADD_CHOICE		COCT_MT mohawkte	
5	COCT_MT0110011W		COCT_MT0110011W Admitter1	CLASS		ADD_CHOICE		COCT_MT mohawkte	
6	COCT_MT0110011W		COCT_MT0110011W Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	1 mohawkte	
7	COCT_MT0110011W		COCT_MT0110011W Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		MANDATC mohawkte	
8	COCT_MT0110011W		COCT_MT0110011W Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT mohawkte	
9	COCT_MT0110011W		COCT_MT0110011W Admitter1	ATTRIBUTE	typeCode	CHANGE_CARDINALITY	null	1 mohawkte	
10	COCT_MT0110011W		COCT_MT0110011W Admitter1	ATTRIBUTE	typeCode	CHANGE_CONFORMANCE		MANDATC mohawkte	
11	COCT_MT0110011W		COCT_MT0110011W Admitter1	ATTRIBUTE	typeCode	CHANGE_DATATYPE		CS mohawkte	
12	COCT_MT0110011W		COCT_MT0110011W Admitter1	ATTRIBUTE	typeCode	CHANGE_VOCABULARY_STRENGTH		CNE mohawkte	
13	COCT_MT0110011W		COCT_MT0110011W Admitter1	ATTRIBUTE	typeCode	CHANGE_VOCABULARY_BINDING	null:null	CODE_SY mohawkte	
14	COCT_MT0110011W		COCT_MT0110011W Class Admit	CLASS		ADD		COCT_MT mohawkte	
15	COCT_MT0110011W		COCT_MT0110011W ServiceDeliveryLocation	CLASS		CHANGE_BUSINESS_NAME		SD Locatic mohawkte	
16	COCT_MT0502071W		COCT_MT0502071W DW	CLASS		ADD		COCT_MT mohawkte	
17	MCCI_IN123123ML		MCCI_IN123123ML	INTERACTION		ADD_INTERACTION		MCCI_IN1 mohawkte	
18	MCCI_IN222222PP		MCCI_IN222222PP	INTERACTION		ADD_INTERACTION		MCCI_IN2 mohawkte	
19	MCCI_IN456456BC		MCCI_IN456456BC	INTERACTION		ADD_INTERACTION		MCCI_IN4 mohawkte	

Figure 79- Opened Change Details Report

7.2 Revision Sanity Check Report

The “Revision Sanity Check” is a report that can be used if the version of the Message Set is changed. For example, a message set was originally created for R02.04.02 but there is a need to change it to R02.04.03. This report provides a list of the constraints and annotations that may no longer be valid due to changes from one version to another.

1. Select the Delta Set from the list
2. Select “Revision Sanity Check” report
3. Select “Download Report” if there is a need to manipulate the deltas by sorting.
4. Select to “Open” or “Save” file

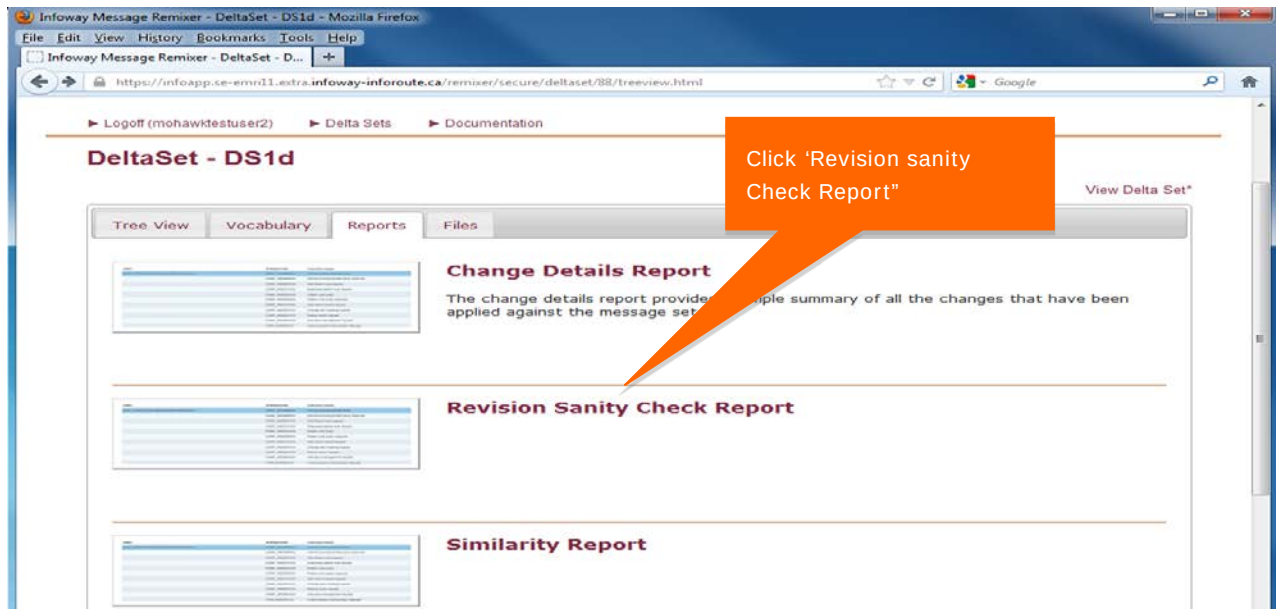


Figure 80- Revision Sanity Check Report

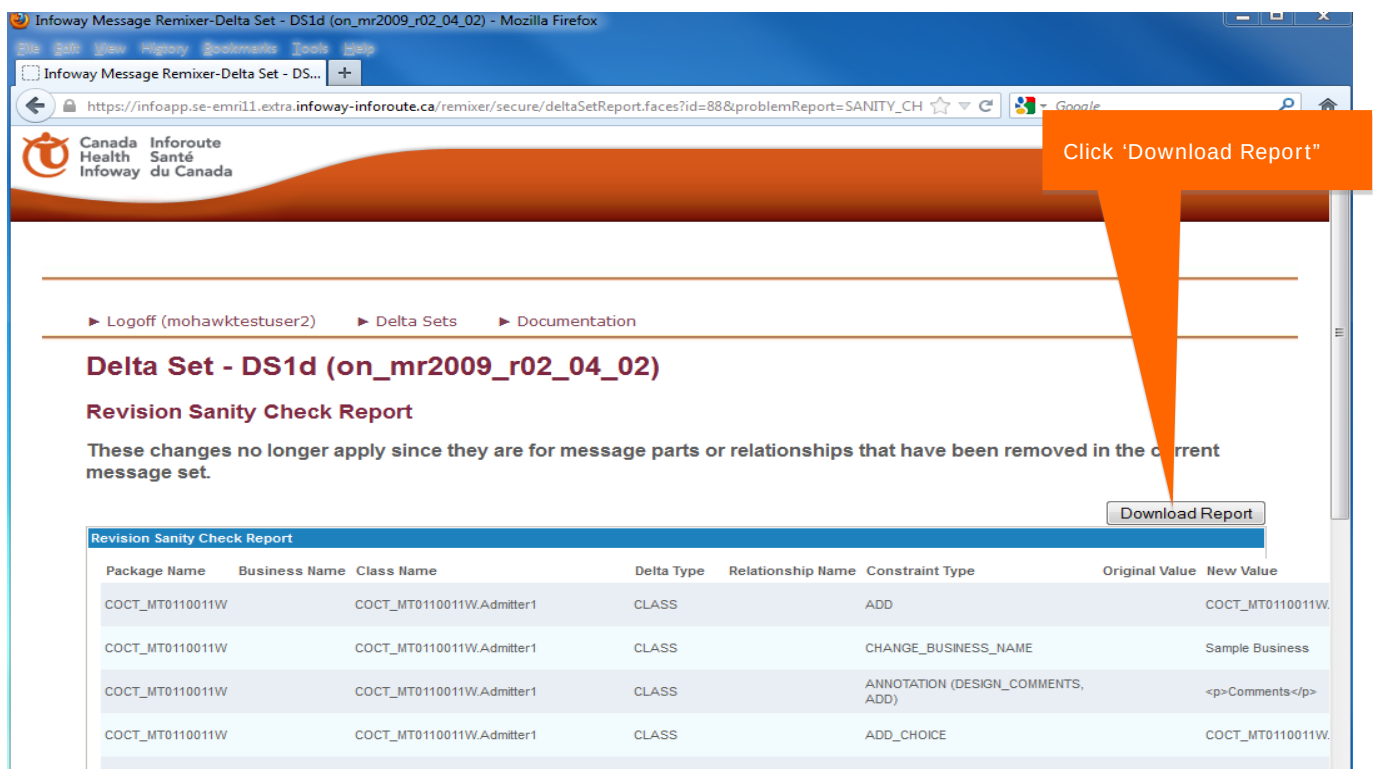


Figure 81- Download Report

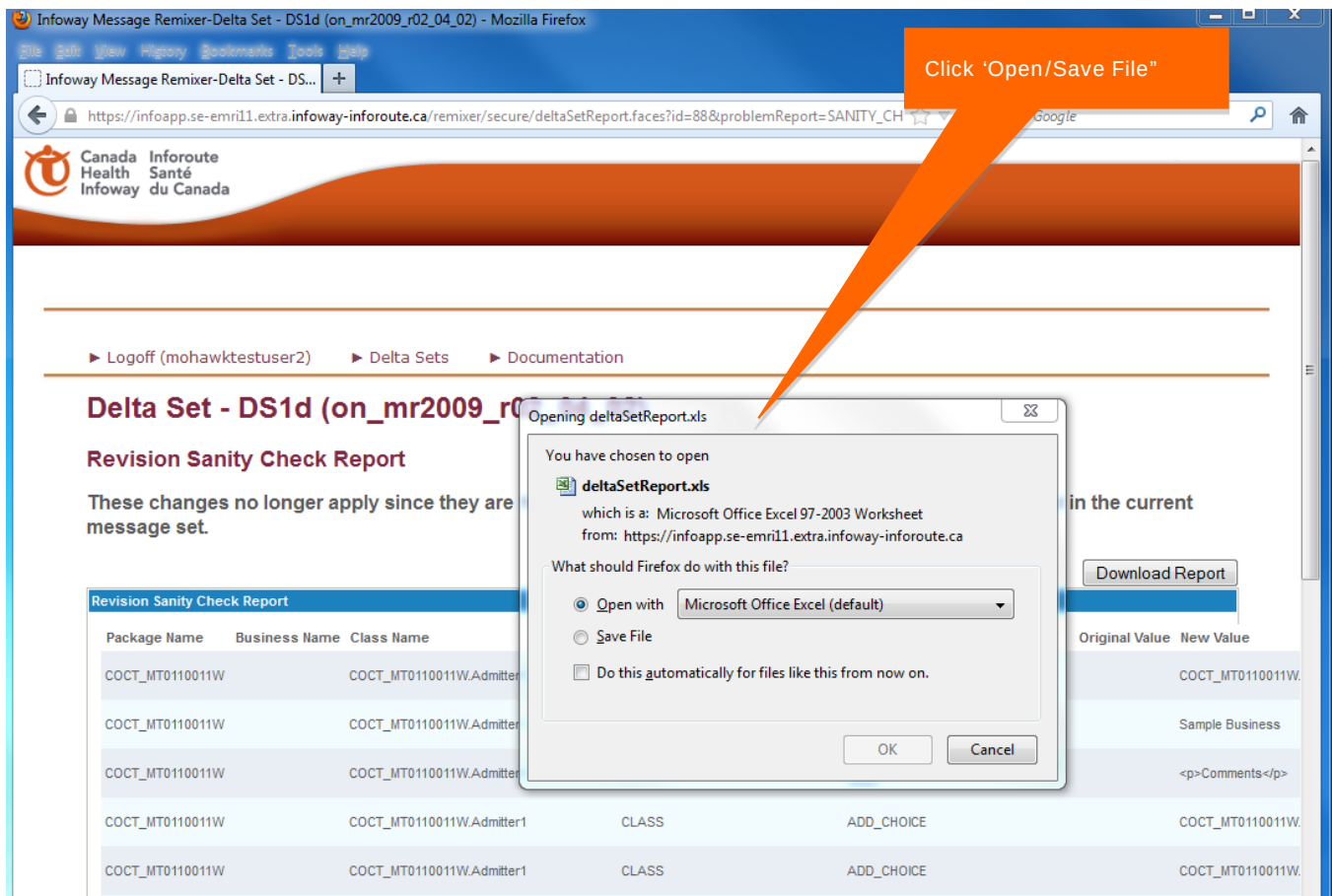


Figure 82- Open / Save Report

The screenshot shows a Microsoft Excel spreadsheet titled 'deltaSetReport-2 [Read-Only] [Compatibility Mode]'. The spreadsheet contains the following data:

Package Name	Business Name	Class Name	Delta Type	Relationship Name	Constraint Type	Original Value	New Value	Created By
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	CLASS		ADD		COCT_MT mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	CLASS		CHANGE_BUSINESS_NAME		Sample Bu mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	CLASS		ANNOTATION (DESIGN_COMMENTS, ADD)		<p>Comm mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	CLASS		ADD_CHOICE		COCT_MT mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	CLASS		ADD_CHOICE		COCT_MT mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	1 mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		MANDATC mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_CARDINALITY	null	1 mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_CONFORMANCE		MANDATC mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_DATATYPE		CS mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_VOCABULARY_STRENGTH		CNE mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_VOCABULARY_BINDING	null:null	CODE_SY mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.Class Admit	CLASS		ADD		COCT_MT mohawkte	
COCT_MT0110011W	COCT_MT0110011W	COCT_MT0110011W.ServiceDeliveryLocation	CLASS		CHANGE_BUSINESS_NAME		SD Locatic mohawkte	
COCT_MT0502071W	COCT_MT0502071W	COCT_MT0502071W.DW	CLASS		ADD		COCT_MT mohawkte	
MCCI_IN123123ML	MCCI_IN123123ML	MCCI_IN123123ML	INTERACTION		ADD_INTERACTION		MCCI_IN1 mohawkte	
MCCI_IN222222PP	MCCI_IN222222PP	MCCI_IN222222PP	INTERACTION		ADD_INTERACTION		MCCI_IN2 mohawkte	
MCCI_IN456456BC	MCCI_IN456456BC	MCCI_IN456456BC	INTERACTION		ADD_INTERACTION		MCCI_IN4 mohawkte	

Figure 83- Opened Revision Sanity Check Report

7.3 Similarity Report

1. Select the Delta Set from the list
2. Select “Similarity Report”
3. Select “Download Report” if there is a need to manipulate the deltas by sorting.
4. Select to “Open” or “Save” file

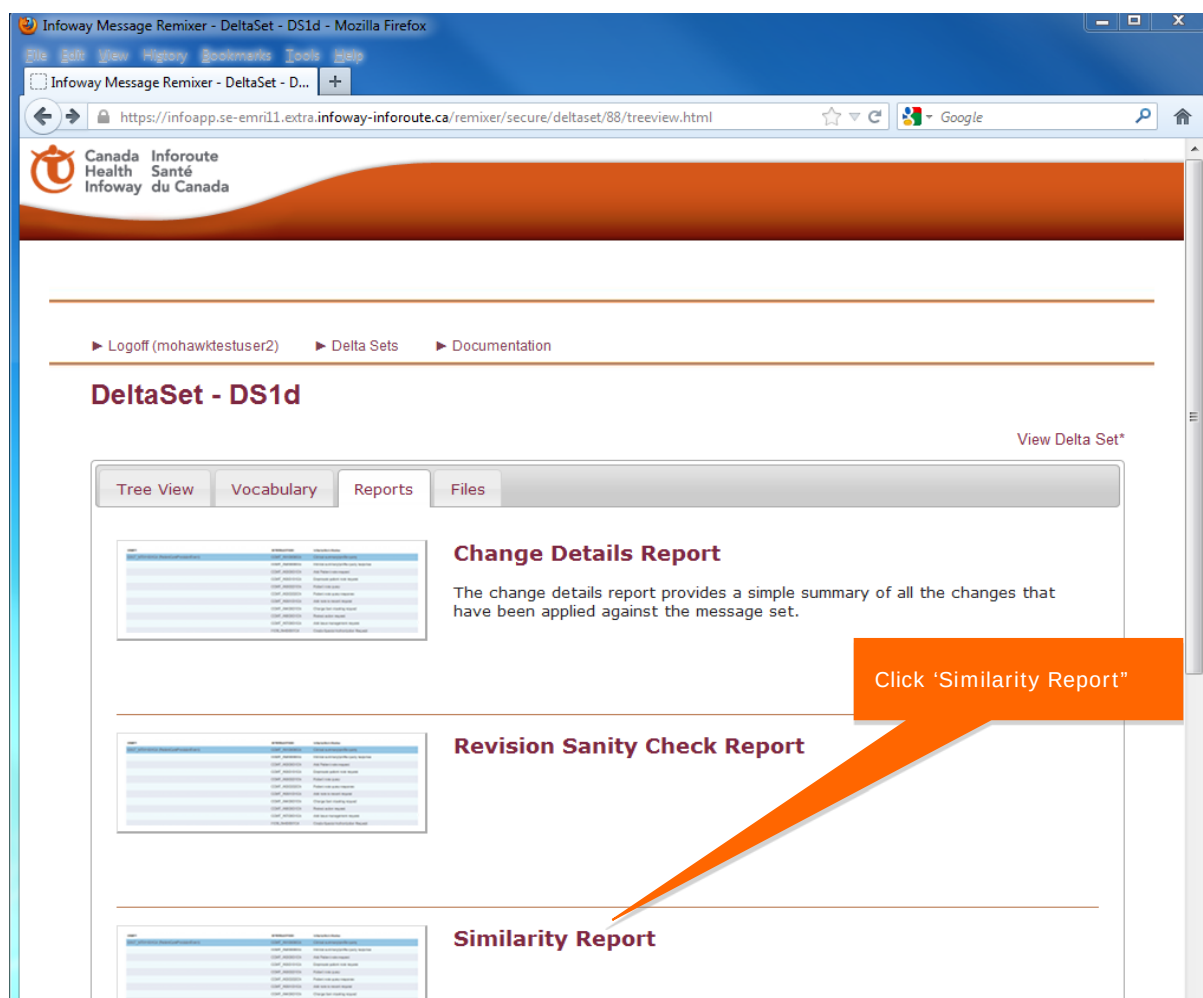


Figure 84- Similarity Report

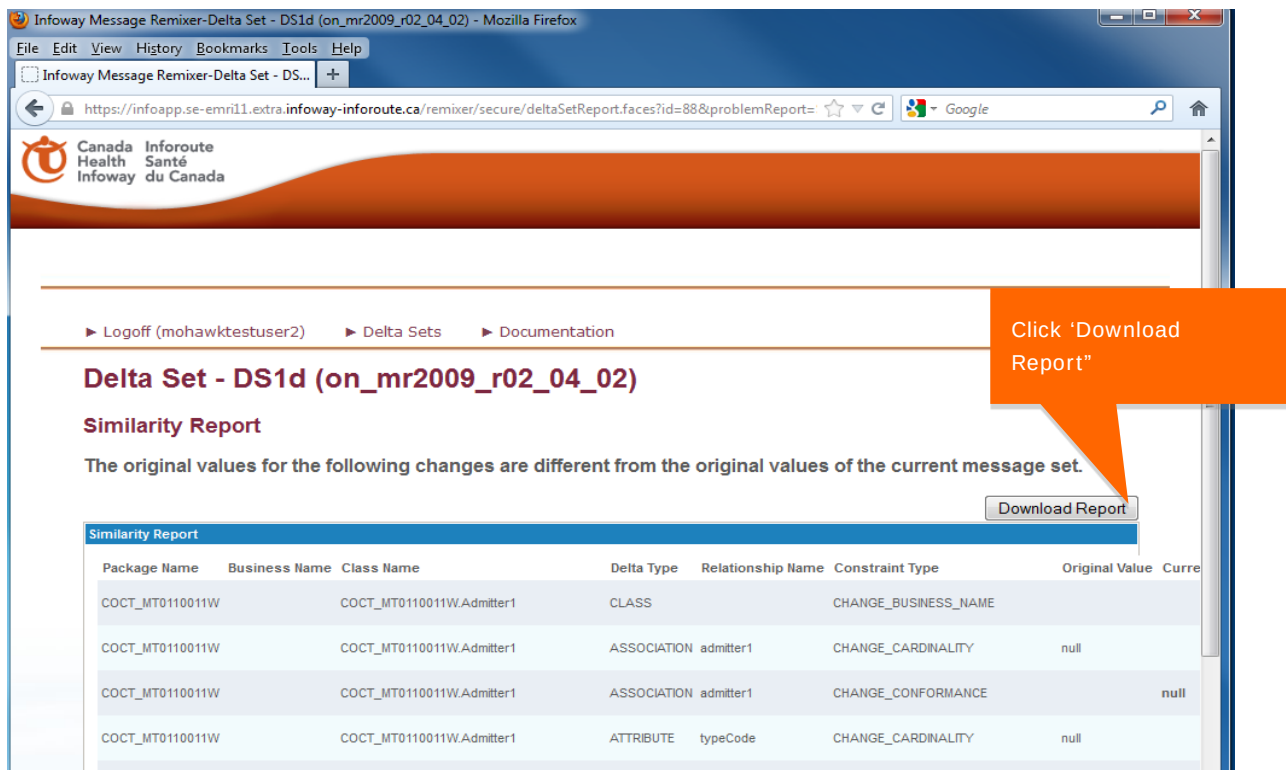


Figure 85- Download Report

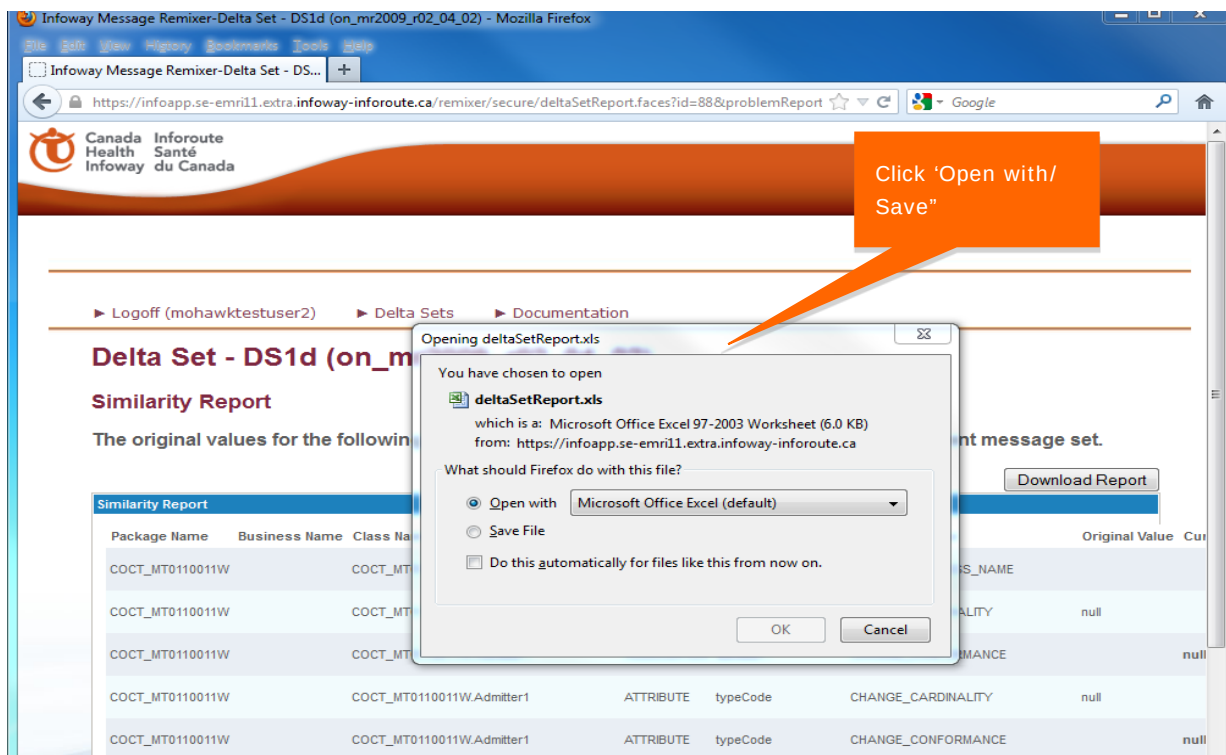


Figure 86- Open /Save Report

	A	B	C	D	E	F	G	H	I	J	K	L
1	Package	Class Name	Delta Type	Relationship Name	Constraint Type	Original Value	Current Original Value					
2	COCT_MT		COCT_MT0110011W.Admitter1	CLASS		CHANGE_BUSINESS_NAME			mohawkte: #####	mohawkte: ###		
3	COCT_MT		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null		mohawkte: #####	mohawkte: ###		
4	COCT_MT		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		null	mohawkte: #####	mohawkte: ###		
5	COCT_MT		COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_CARDINALITY	null		mohawkte: #####	mohawkte: ###		
6	COCT_MT		COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_CONFORMANCE		null	mohawkte: #####	mohawkte: ###		
7	COCT_MT		COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_VOCABULARY_STRENGTH		null	mohawkte: #####	mohawkte: ###		
8	COCT_MT		COCT_MT0110011W.Admitter1	ATTRIBUTE	typeCode	CHANGE_VOCABULARY_BINDING	null:null	null	mohawkte: #####	mohawkte: ###		
9	COCT_MT		COCT_MT0110011W.ServiceDeliveryLocation	CLASS		CHANGE_BUSINESS_NAME			mohawkte: #####	mohawkte: ###		
10												
11												

Figure 87-Opened Similarity Report

7.4 Delete Deltas Report

1. Select the Delta Set from the list
2. Select "Delete Deltas Report"
3. Select "Download Report" if there is a need to manipulate the deltas by sorting.
4. Select to "Open" or "Save" file

The screenshot shows a web browser window titled "Infoway Message Remixer - DeltaSet - DS1d - Mozilla Firefox". The address bar shows the URL: <https://infoapp.se-emr11.extra.infoway-inforoute.ca/remixer/secure/deltaset/88/treeview.html>. The page header includes the Infoway logo and the text "Canada Inforoute Health Santé Infoway du Canada". Below the header, there are navigation links: "Logoff (mohawktestuser2)", "Delta Sets", and "Documentation". The main content area is titled "DeltaSet - DS1d" and includes a "View Delta Set*" link. A tabbed interface shows "Tree View", "Vocabulary", "Reports", and "Files". The "Reports" tab is active, displaying four report sections: "Change Details Report", "Revision Sanity Check Report", "Similarity Report", and "Deleted Deltas Report". Each report section has a table of data on the left and a description on the right. An orange callout box points to the "Deleted Deltas Report" section with the text "Click 'Deleted Deltas Report'".

Change Details Report
The change details report provides a simple summary of all the changes that have been applied against the message set.

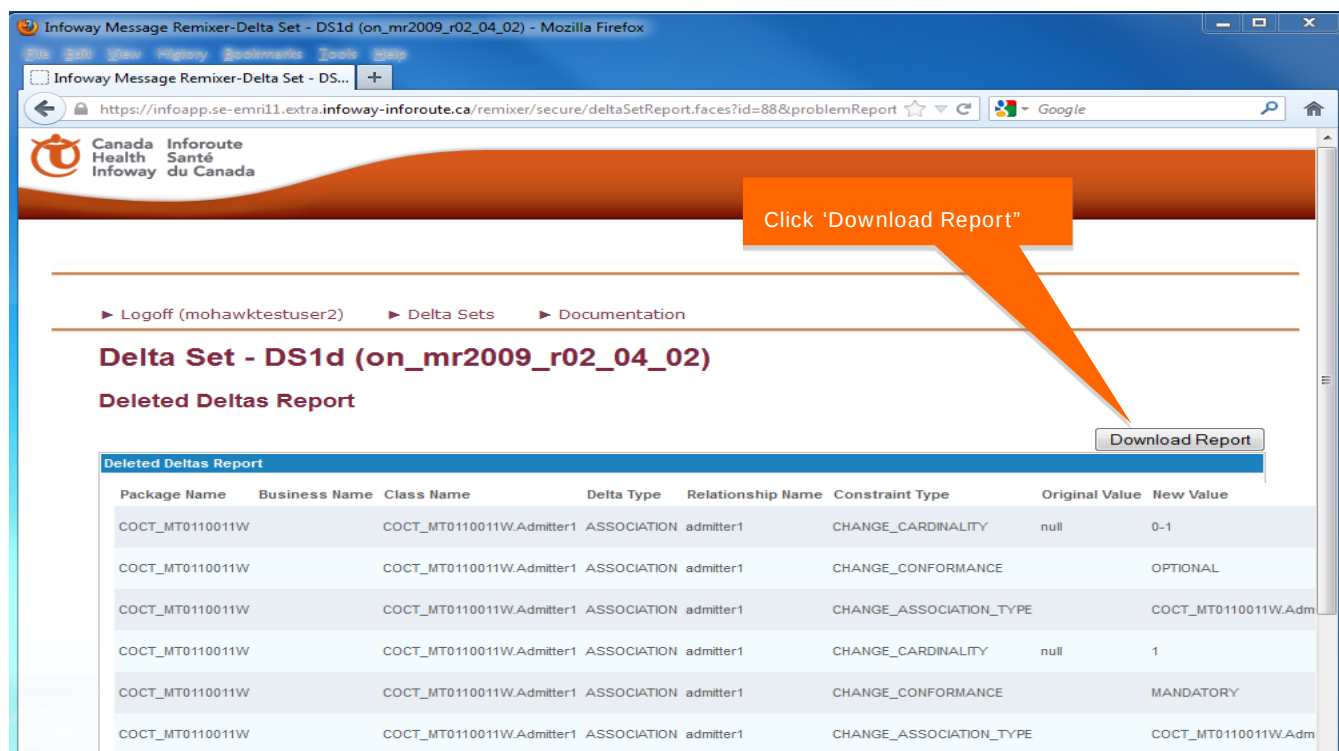
Revision Sanity Check Report

Similarity Report

Deleted Deltas Report

Click "Deleted Deltas Report"

Figure 88 - Reports



Infoway Message Remixer-Delta Set - DS1d (on_mr2009_r02_04_02) - Mozilla Firefox

https://infoapp.se-emr11.extra.infoway-inforoute.ca/remixer/secure/deltaSetReport.faces?id=88&problemReport

Canada Health Inforoute
Santé Santé
Infoway du Canada

Logoff (mohawktestuser2) Delta Sets Documentation

Delta Set - DS1d (on_mr2009_r02_04_02)

Deleted Deltas Report

Download Report

Package Name	Business Name	Class Name	Delta Type	Relationship Name	Constraint Type	Original Value	New Value
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	0-1
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		OPTIONAL
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT0110011W.Adm
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	1
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		MANDATORY
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT0110011W.Adm

Figure 89- Download Report

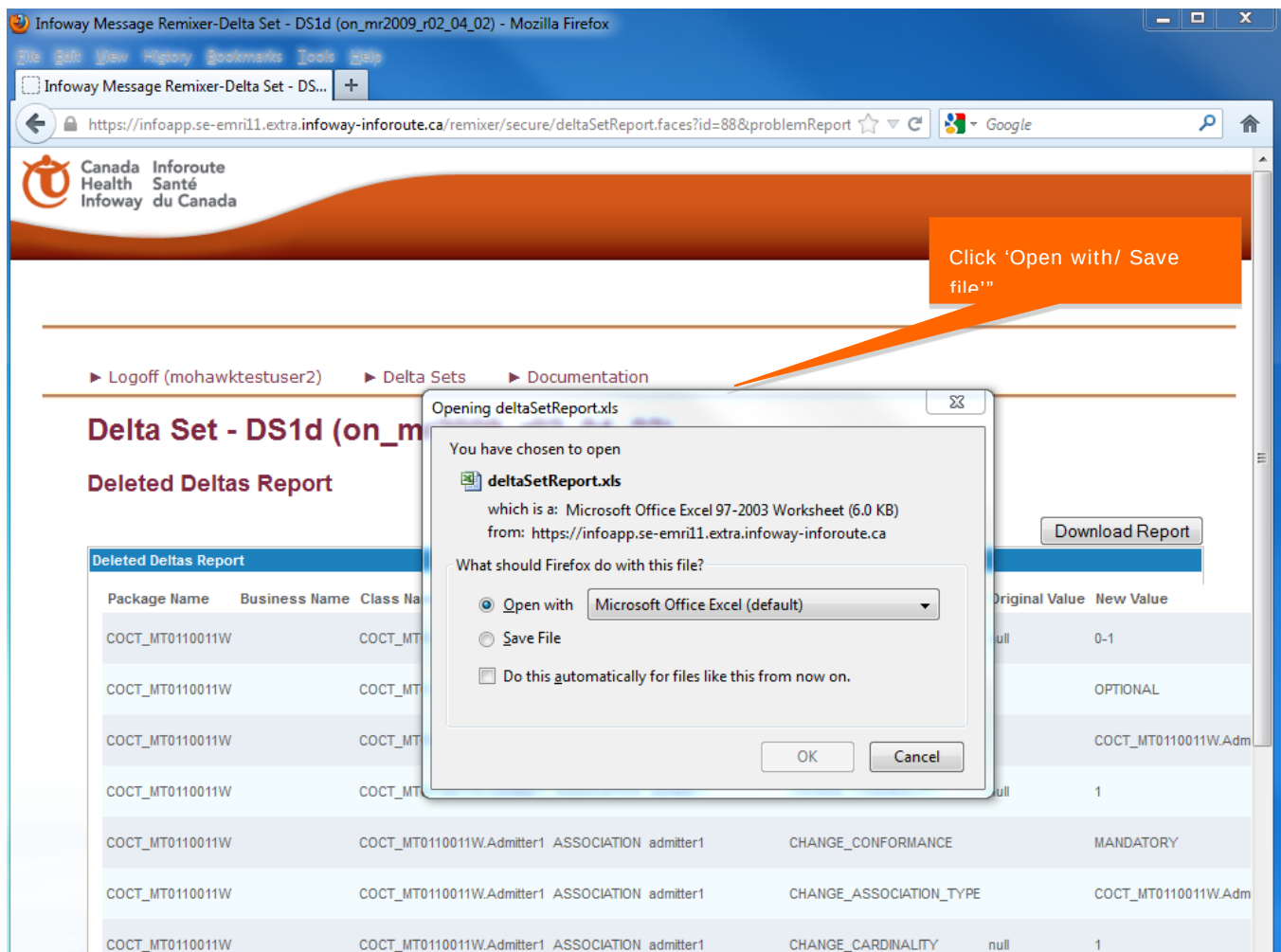


Figure 90- Open/Save Report

The screenshot shows a Microsoft Excel spreadsheet titled 'deltaSetReport-4 [Read-Only] [Compatibility Mode]'. The spreadsheet contains data from the 'Deleted Deltas Report' table. The columns are: Package Name, Business Name, Class Name, Delta Type, Relationship Name, Constraint Type, Original Value, New Value, and Created By. The data is as follows:

Package Name	Business Name	Class Name	Delta Type	Relationship Name	Constraint Type	Original Value	New Value	Created By
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	0-1	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		OPTIONAL	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT0110011W.Admitter1	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	1	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		MANDATORY	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT0110011W.Admitter1	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CARDINALITY	null	1	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_CONFORMANCE		MANDATORY	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.Admitter1	ASSOCIATION	admitter1	CHANGE_ASSOCIATION_TYPE		COCT_MT0110011W.Admitter1	mohawktestuse
COCT_MT0110011W		COCT_MT0110011W.CS	CLASS		ADD		COCT_MT0110011W.CS	mohawktestuse

Figure 91- Opened Deleted Delta Report

7.5 CEMT Dependency Report

1. Select the Delta Set from the list
2. Select "CEMT Dependency Report"
3. Select "Download Report" if there is a need to manipulate the deltas by sorting.
4. Select to "Open" or "Save" file

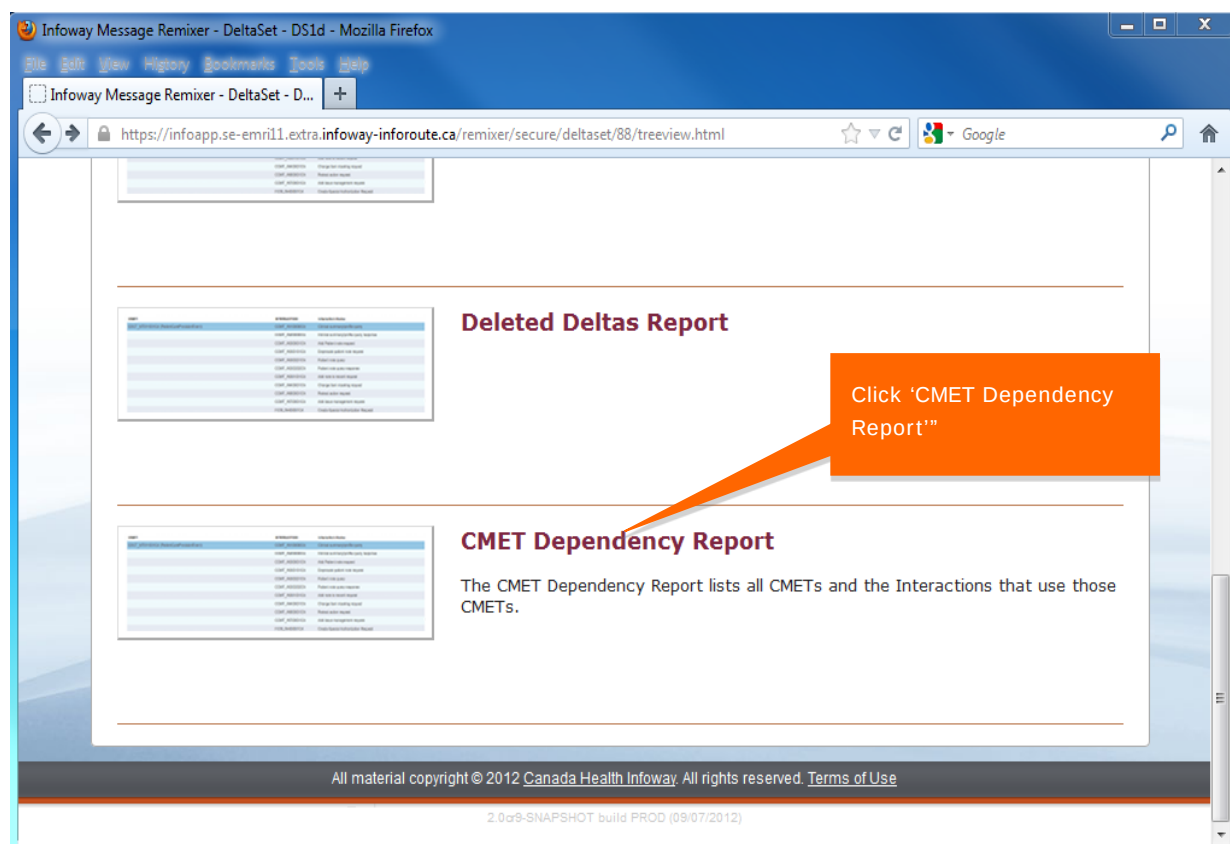


Figure 92- CEMT Dependency Report

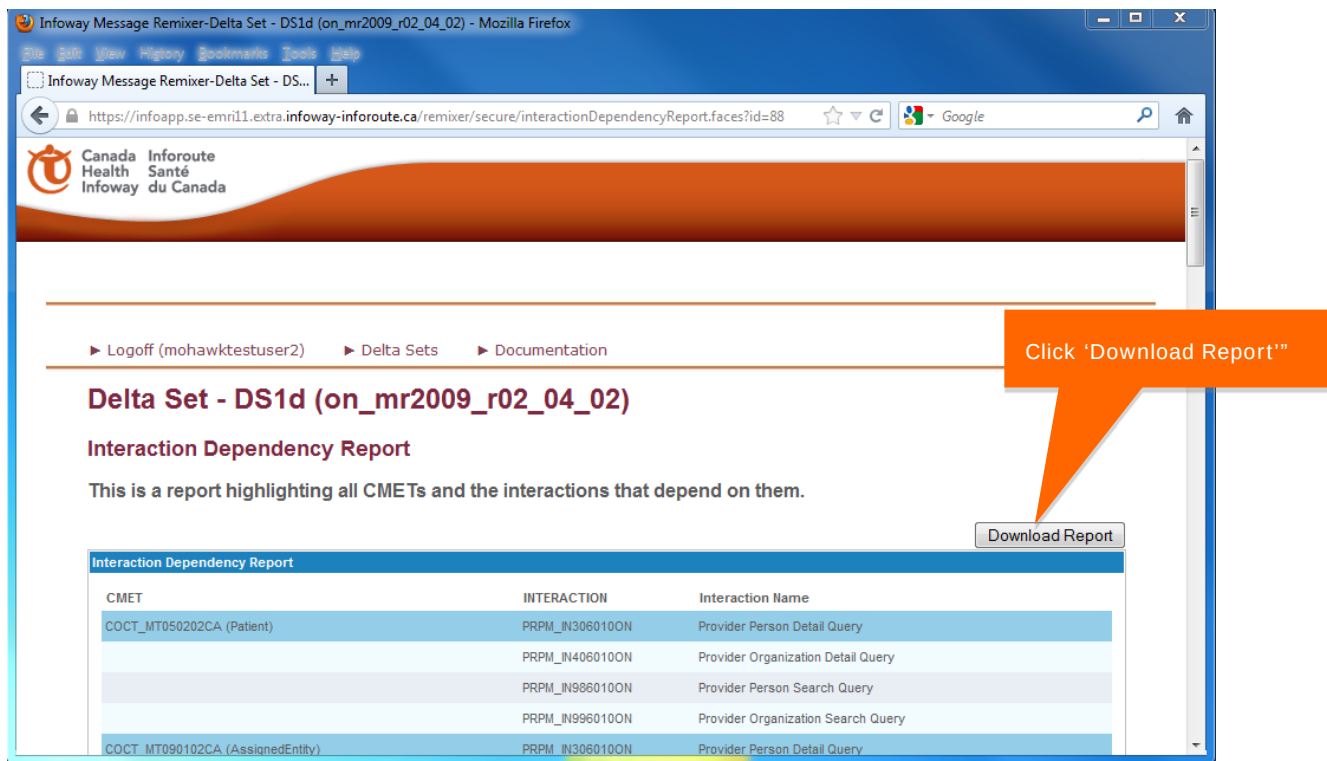


Figure 93-Download Report

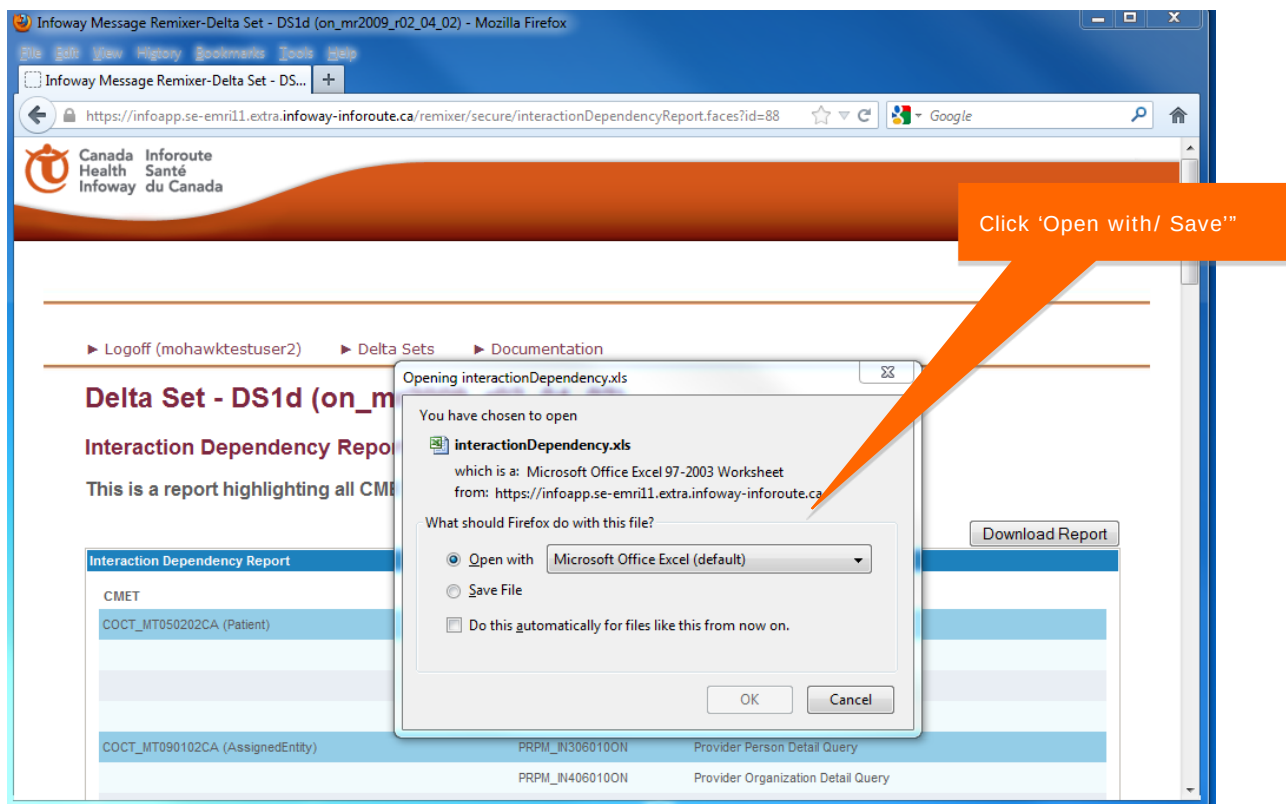
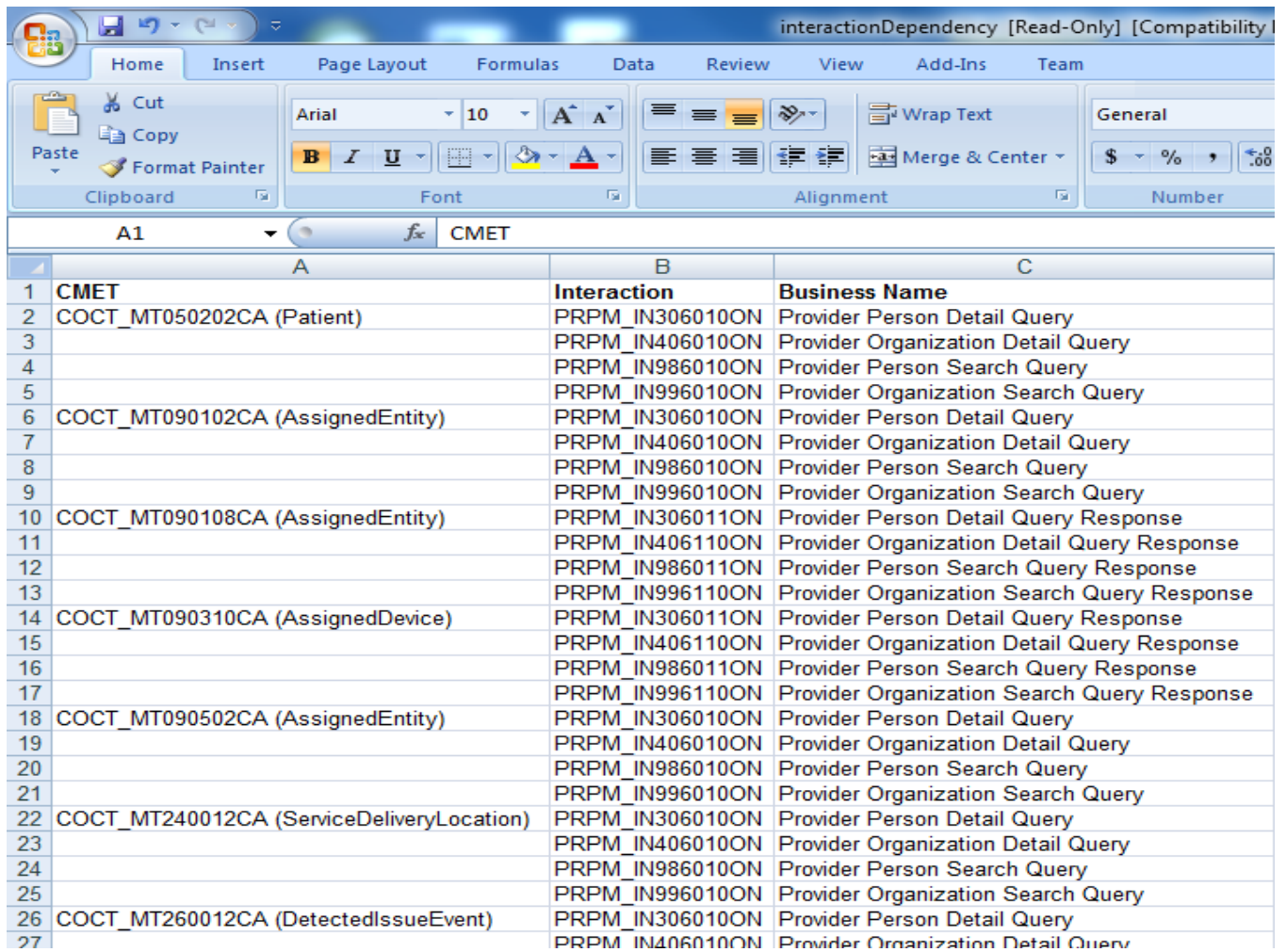


Figure 94- Open / Save File



	A	B	C
1	CMET	Interaction	Business Name
2	COCT_MT050202CA (Patient)	PRPM_IN306010ON	Provider Person Detail Query
3		PRPM_IN406010ON	Provider Organization Detail Query
4		PRPM_IN986010ON	Provider Person Search Query
5		PRPM_IN996010ON	Provider Organization Search Query
6	COCT_MT090102CA (AssignedEntity)	PRPM_IN306010ON	Provider Person Detail Query
7		PRPM_IN406010ON	Provider Organization Detail Query
8		PRPM_IN986010ON	Provider Person Search Query
9		PRPM_IN996010ON	Provider Organization Search Query
10	COCT_MT090108CA (AssignedEntity)	PRPM_IN306011ON	Provider Person Detail Query Response
11		PRPM_IN406110ON	Provider Organization Detail Query Response
12		PRPM_IN986011ON	Provider Person Search Query Response
13		PRPM_IN996110ON	Provider Organization Search Query Response
14	COCT_MT090310CA (AssignedDevice)	PRPM_IN306011ON	Provider Person Detail Query Response
15		PRPM_IN406110ON	Provider Organization Detail Query Response
16		PRPM_IN986011ON	Provider Person Search Query Response
17		PRPM_IN996110ON	Provider Organization Search Query Response
18	COCT_MT090502CA (AssignedEntity)	PRPM_IN306010ON	Provider Person Detail Query
19		PRPM_IN406010ON	Provider Organization Detail Query
20		PRPM_IN986010ON	Provider Person Search Query
21		PRPM_IN996010ON	Provider Organization Search Query
22	COCT_MT240012CA (ServiceDeliveryLocation)	PRPM_IN306010ON	Provider Person Detail Query
23		PRPM_IN406010ON	Provider Organization Detail Query
24		PRPM_IN986010ON	Provider Person Search Query
25		PRPM_IN996010ON	Provider Organization Search Query
26	COCT_MT260012CA (DetectedIssueEvent)	PRPM_IN306010ON	Provider Person Detail Query
27		PRPM_IN406010ON	Provider Organization Detail Query

Figure 95- Opened Report

8 Files

8.1.1 *Original Message Set*

This file is used by the Message Builder Generator to build the class files for the Message Builder Runtime.

8.1.2 *Revised Message Set*

This file contains the modifications defined in this delta set. It can be used by the Message Builder Generator to rebuild new class files.

8.1.3 *MIFs*

The MIF file which contains the changes to the message parts/interactions.

8.1.4 *Delta Set*

The xml file which contains only the changes from the current message set.

8.1.5 *Vocabulary Classes (Java)*

The class files which describe only the vocabulary items.

8.1.6 *Vocabulary Classes (C#)*

The class files which describe only the vocabulary items.

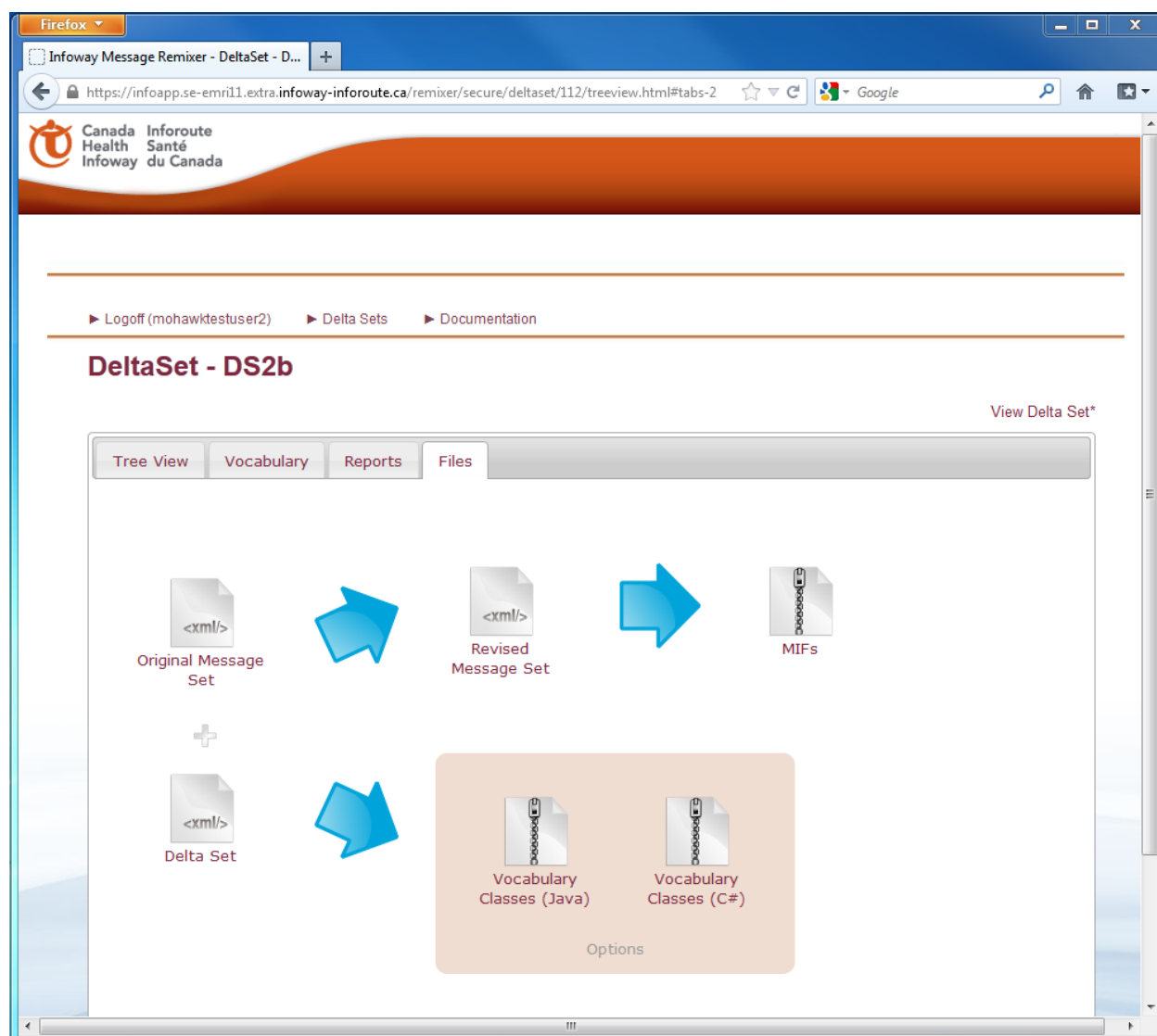


Figure 96 - File

9 View Delta Set

View a delta set allows you to view the changes to the message parts.

1. Click on View Delta Set link located at the top right corner.
2. On the Message Part Deltas tab, follow guideline 9.1.
3. On the Vocabulary Deltas tab, follow guideline 9.2.

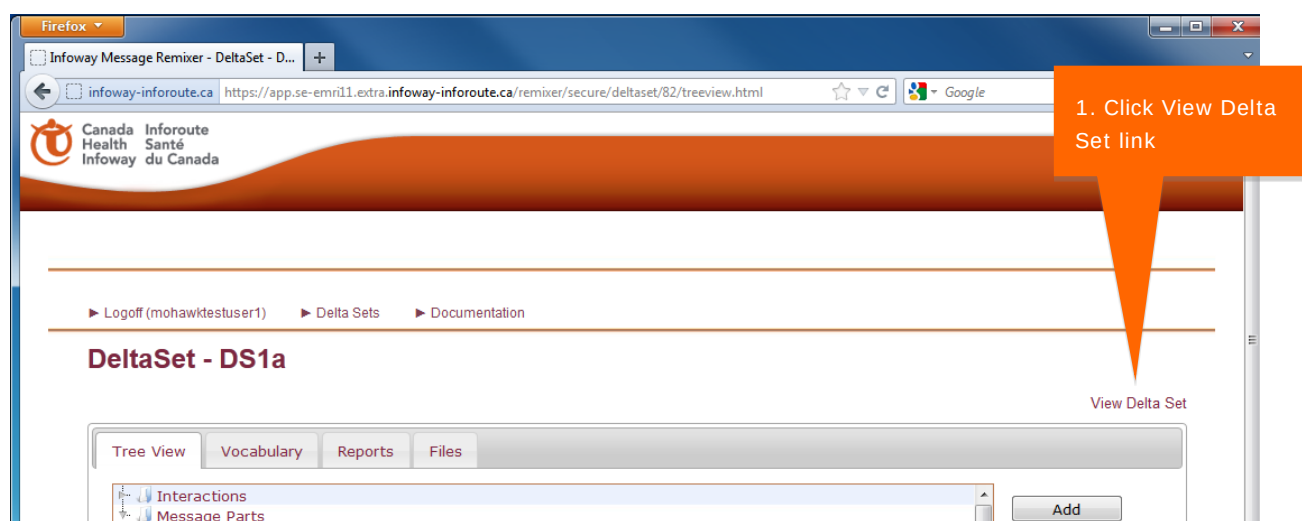


Figure 97 – View Delta Set

9.1 Message Part Deltas

1. Select a message part name by hovering your mouse over it.
2. When the pencil and x icon appears, click the pencil icon to edit it.
3. Click on x icon to delete the message part name.
4. Click on the Message Part Name to edit its Relationships. See Section 5.2 for user guidelines on Edit a message Part in Delta Set.

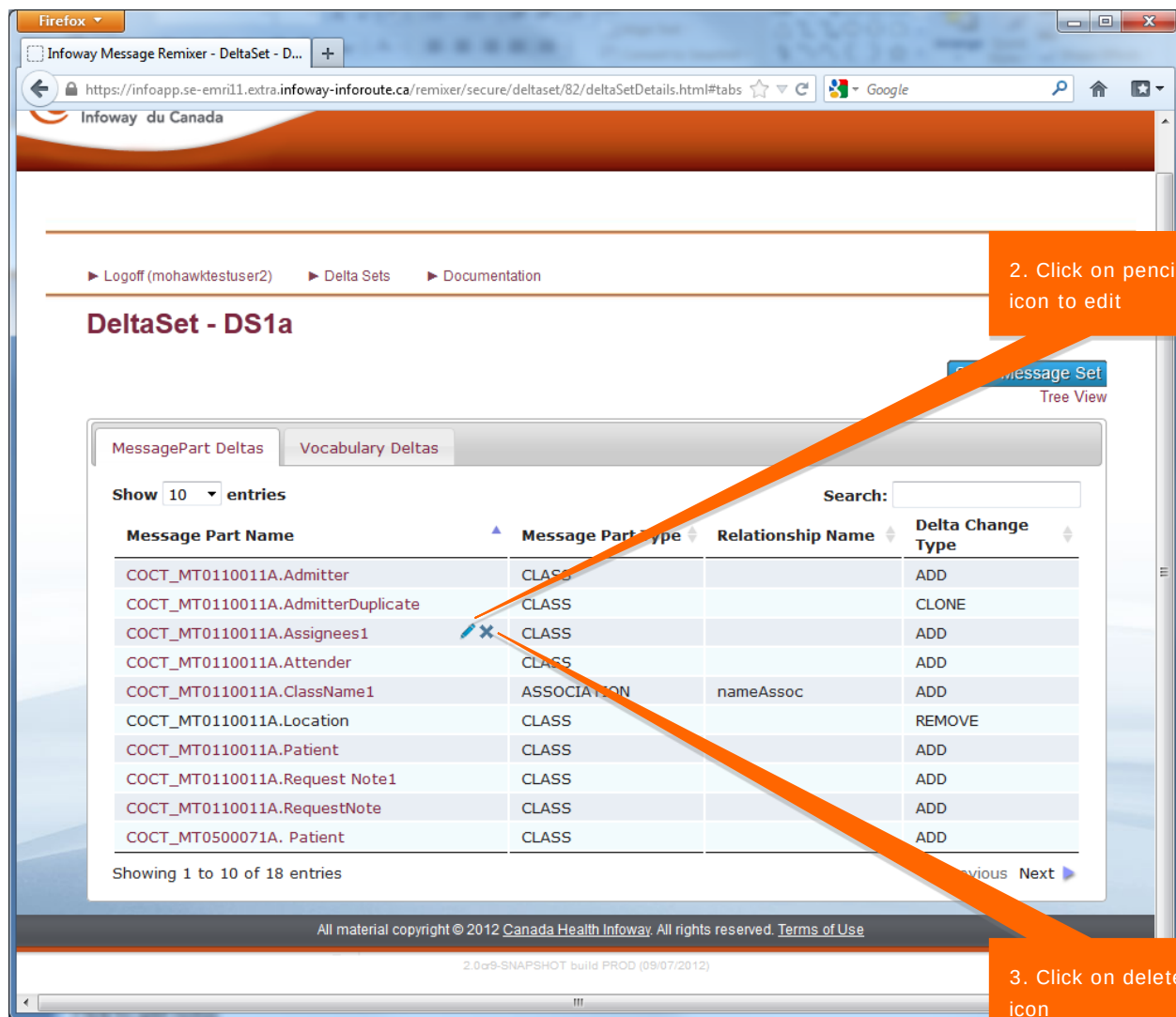


Figure 98 – Message Part Deltas

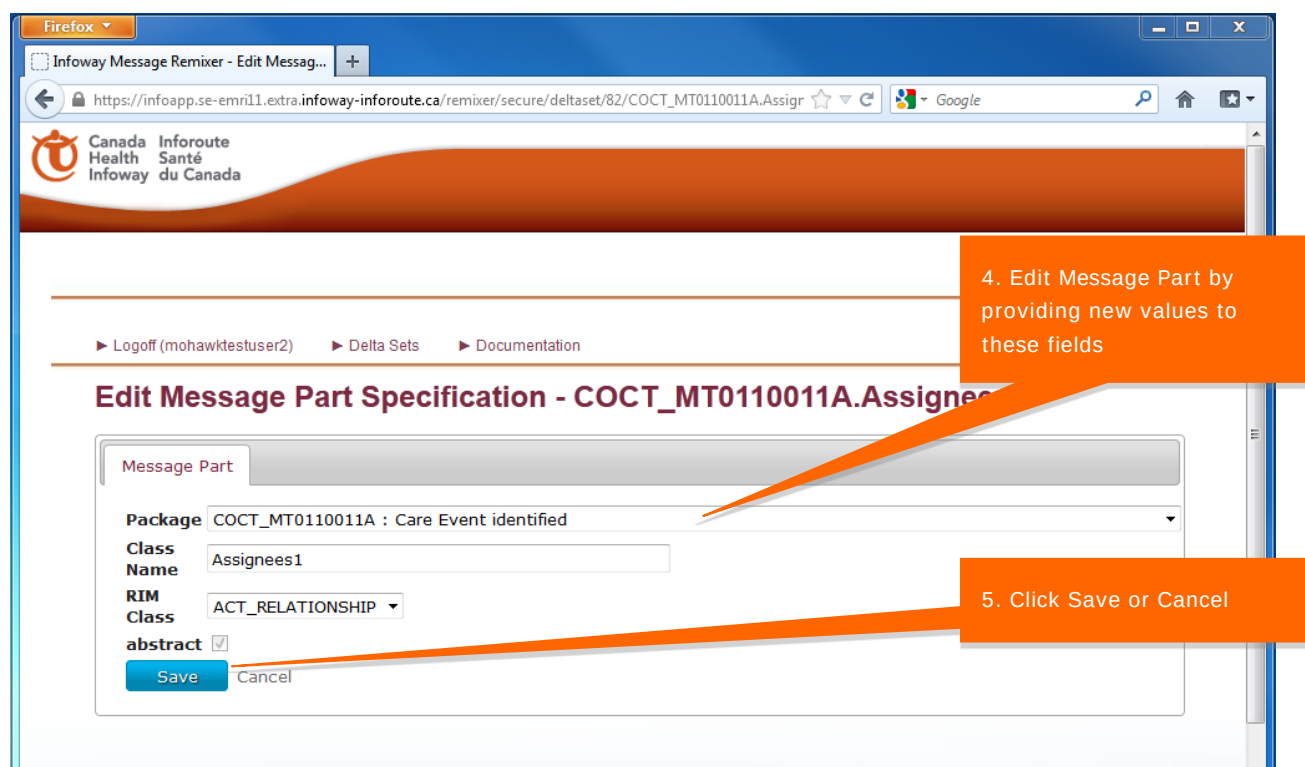


Figure 99 - Edit a Message Part

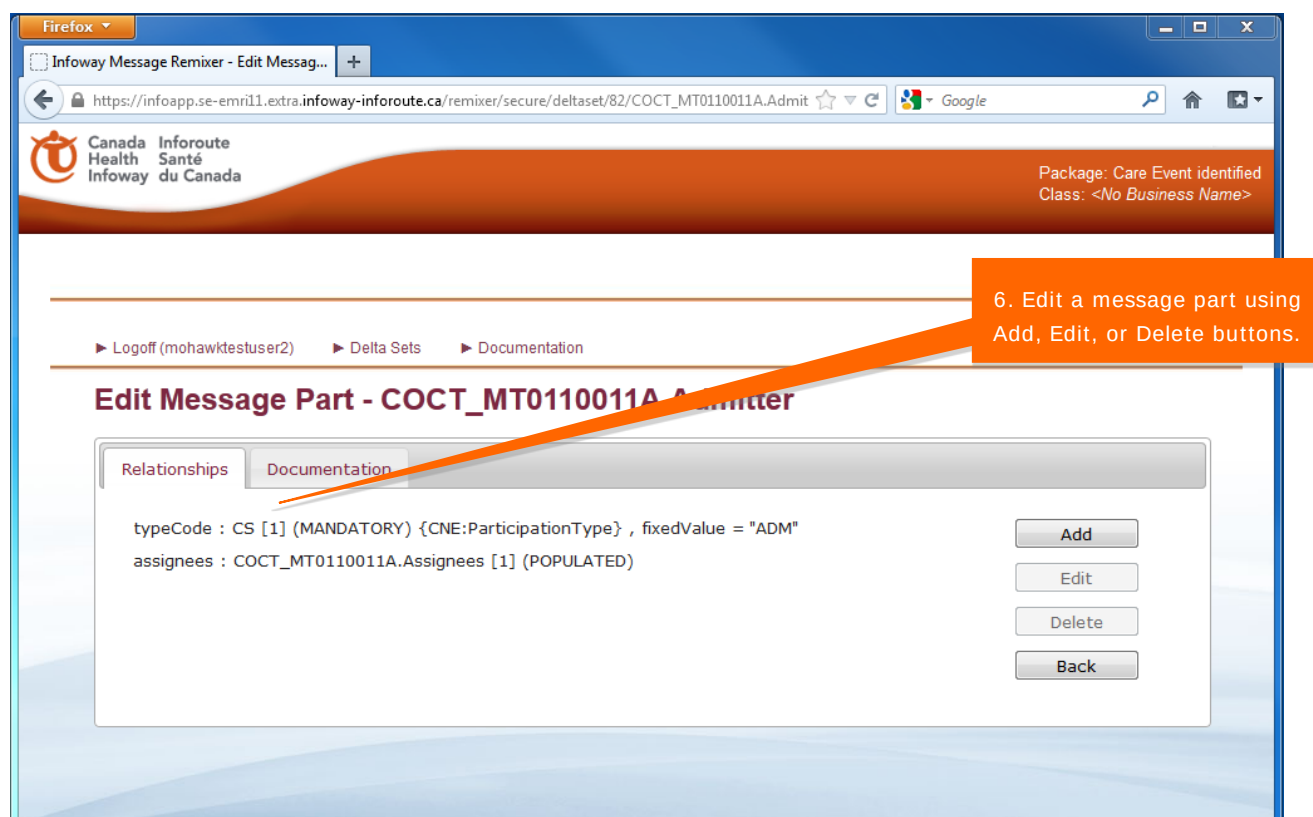


Figure 100 - Edit Relationships

9.2 Vocabulary Deltas

1. On the Vocabulary Deltas tab, select a vocabulary delta name by hovering your mouse over it.
2. When the pencil and x icon appears, click the pencil icon to edit it. See Section 6.2 for user guidelines how to Edit a Code System.
3. Click on x icon to delete a vocabulary delta.

1. Select Vocabulary Deltas tab.

2. Click on pencil icon to edit

3. Click on X icon to delete

Figure 101 - Vocabulary Delta List

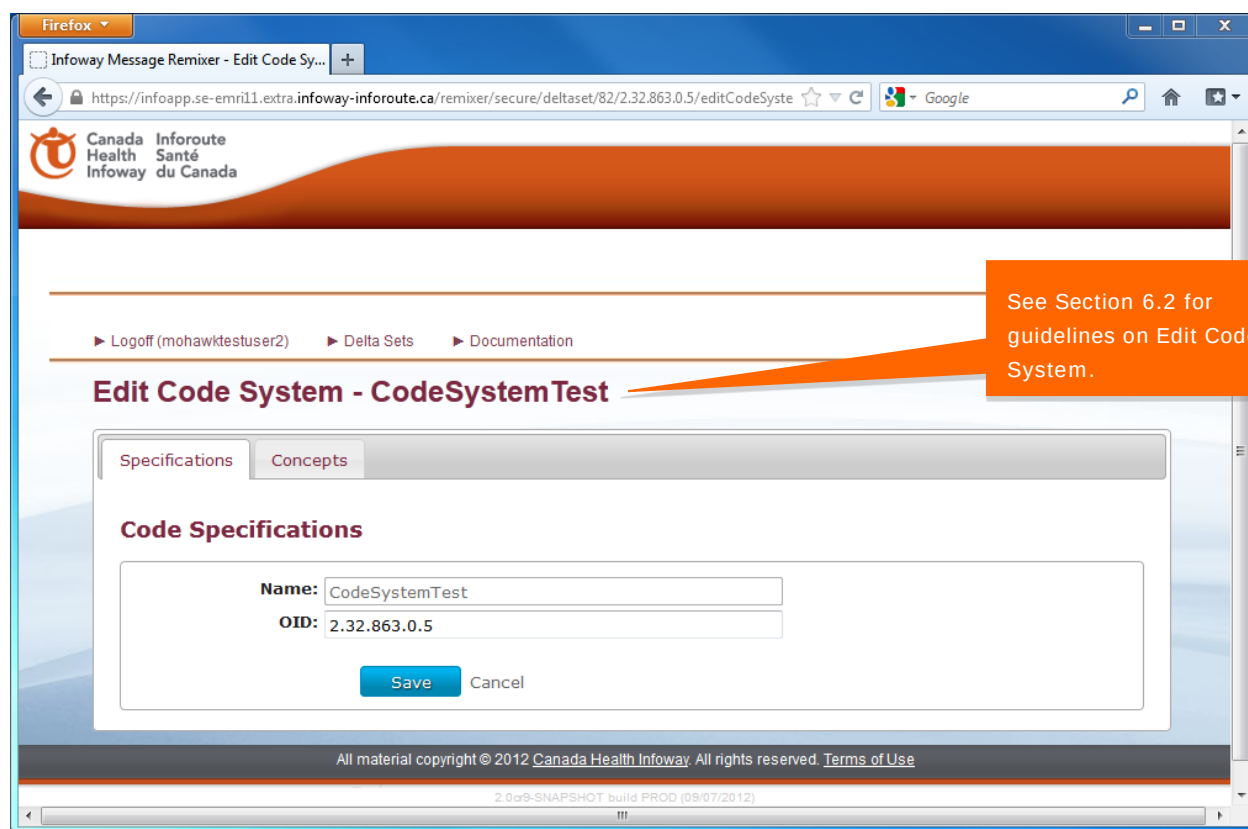


Figure 102 - Edit a Code System

9.3 Save Message Set

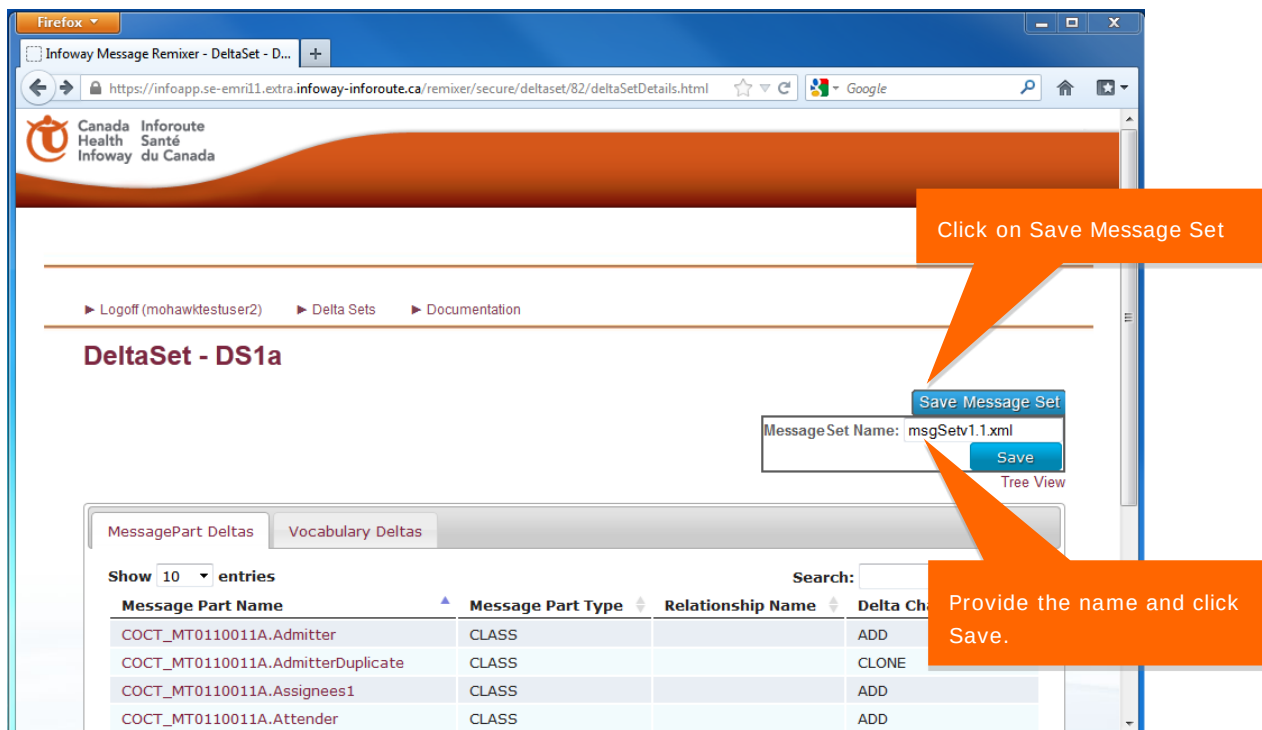


Figure 103 - Save Message Set

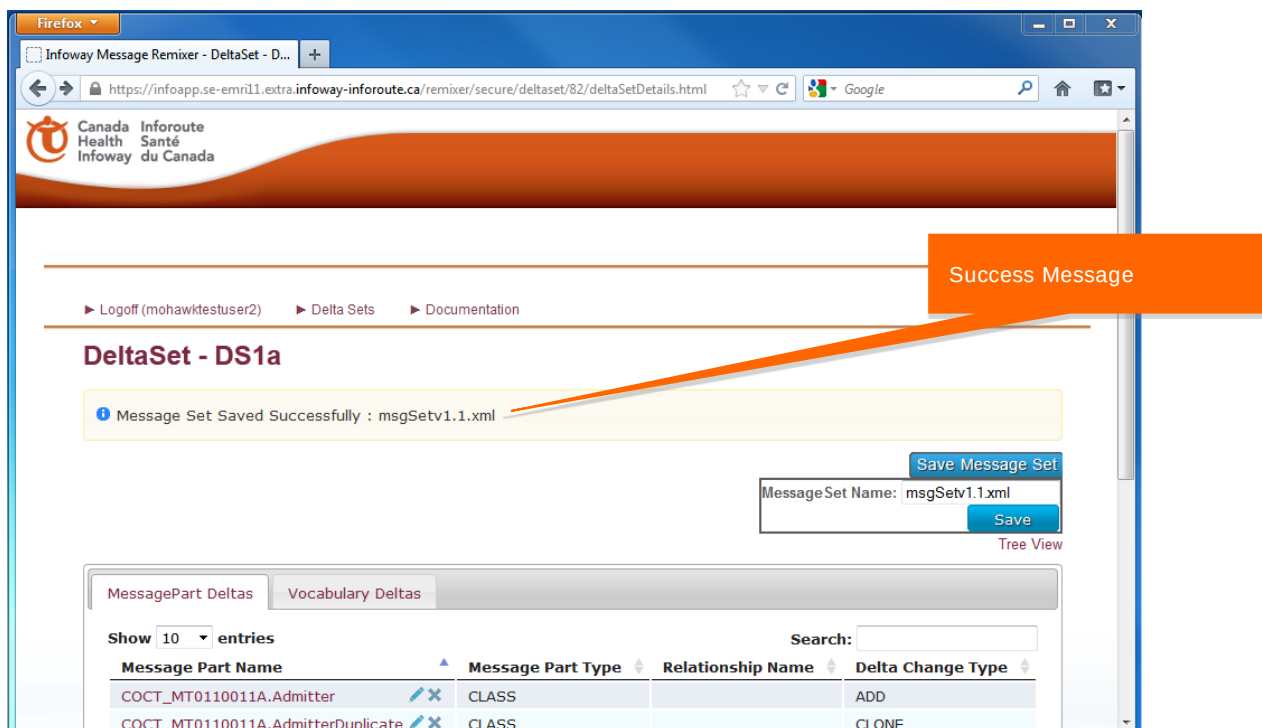


Figure 104 - Message Set Saved

10 Types of Deltas

Depending upon the element selected, users will be provided with different choices for what can be modified. The following table describes the types of changes that can be made to different elements as well as the conformance of the properties.

Type	Changes Types allowed	Conformance
Class	Document	
	a. New Business Name	Mandatory
	Annotate	
	b. Constraint	
	• New Value	Mandatory
	c. Design Comments	
	• New Value	Mandatory
	d. Mapping	
	• Source	Mandatory
	• New Value	
	e. Open Issue	Optional
	• New Value	Mandatory
	f. Other Notes	
	• Type of the Note	Mandatory
	• New Value	
	g. Rationale	Optional
	• New Value	Mandatory
	h. Usage Notes	
	• New Value	Mandatory
	i. Description	
	• New Value	Mandatory
	j. Definitions	
	• New Value	Mandatory
	k. Usage Constraints	
	• New Value	Mandatory
	l. Requirements	
	• New Value	Mandatory
	m. Stability Remarks	
	• New Value	Mandatory
	n. Walkthrough	
	• New Value	Mandatory

Type	Changes Types allowed	Conformance
	o. Appendix • New Value p. Ballot Comment • New Value q. Change Request • New Value r. Static Example • New Value s. Deprecation Information • New Value Edit Documentation t. Change Business Name u. Change Annotation v. Remove Annotation Delete	Mandatory Mandatory Mandatory Mandatory Mandatory
Association	Define a. Name b. Type c. Conformance Level d. Cardinality Edit Definition a. Change Type b. Change Relationship Names c. Change Conformance Level d. Change Cardinality Edit Documentation a. Change Business Name b. Change Annotation c. Remove Annotation Delete	Mandatory Mandatory Mandatory Mandatory
Attribute	Define a. Name b. Type	Mandatory Mandatory

Type	Changes Types allowed	Conformance
	c. Conformance Level d. Cardinality	Mandatory Mandatory
	Advanced Options a. Immutable/Structural b. Update Modes i. Add ii. Remove iii. Add or Update iv. Replace v. No Change vi. Unknown c. Default Update Modes	Optional
	Edit Definition a. Change Type b. Change Conformance Level c. Change Cardinality d. Change Update Modes	
	Edit Documentation a. Change Business Name b. Change Annotation c. Remove Annotation	
	Delete	