

FoodCASE v 1.4.5

User Manual for Administration

Administration Tool

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1 Introduction

1.1 What is FoodCASE

FoodCASE (Food Composition And System Environment) is a computerized food information management system that merges standardized rules and provide an environment for harmonized food composition data (FCD) compilation.

It consists of two software applications – Compiler Client Module and Administration Tool. The former is utilised by compilers for FCD documentation and the latter allows setting properties and parameters applied for documentation and is only available for users with administrator rights.

1.2 FoodCASE Administration Tool

It is an extra software application of FoodCASE for setting properties and parameters applied for FCD documentation. The application is accessible only for compilers with administrator rights. Even the administrator himself does not have full rights to modify all settings, standard thesauri and other parameters. The database system available in the application is based on the European recommendations on food composition databases (Schlotke, et al., 2000; Becker, et al., 2007; Becker, et al., 2008; EuroFIR, 2013).

2 About the Manual

This manual gives instructions for managing systems, thesauri and quality parameters of FCD management system, FoodCASE. The manual is divided in several chapters based on the software layout. Particular steps of system management can be conducted arbitrary. Users can start work with each chapter independently on each other.

3 Login and Exit

3.1 Login

For starting FoodCASE Administration Tool (hereinafter also application) user needs a personal user name and a password (Figure 3.1-1). The login data are case sensitive. As soon as the user is logged in, all operations (inputs or modifications) are recorded under the registered name.

FoodCASE is a multi-user application, which means that multiple user can login at the same time. FoodCASE is also a client server system, which means that a user is working with a client application that is connected to the FoodCASE server, which is responsible for the data storage.

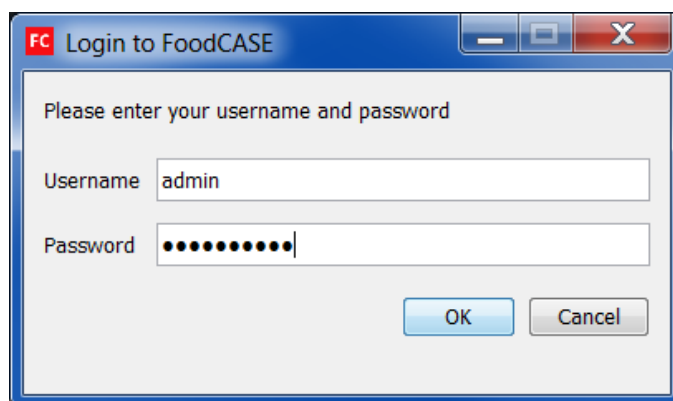


Figure 3.1-1

If user name and/or password is not correct error message displays (Figure 3.1-2). Number of login attempts is not limited.

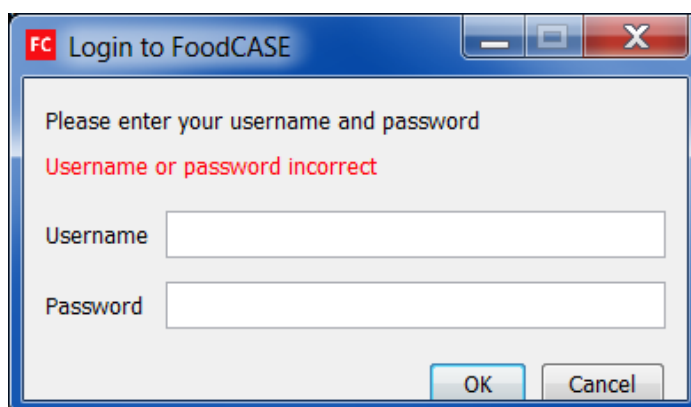


Figure 3.1-2

3.2 Exit

To exit the application use one of the following:

- Click the *Menu File* → *Exit Ctrl+Q*,
- Use the **Ctrl+Q** keys,
- Click the “x” sign in the upper right corner of the main screen.

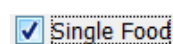
4 Getting Started

4.1 Graphic Controls

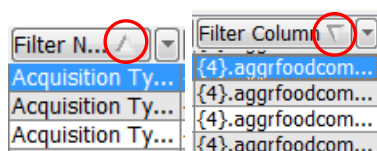
The controls are listed from a major part in a chronological order based on usage of the application.



Drop-down list – displays a list of available descriptors, columns, categories, properties or records and enables choosing one item from the list.

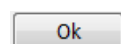


Check/tick box – represents one of two values - “True” or “False”. Tick ☒ in the check box field indicates “True”, which in most cases means that the operation is applicable for indicated record.

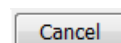


Ascending/Descending Order – click on a header of any column sorts data in table in either ascending or descending order corresponding to the selected column.

Note: Numbers are ordered first, then letters are ordered based on English alphabet and special letters (e.g. ä, š) are ordered in the end of the list.



Confirm – confirms the process or action.



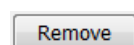
Cancel – cancels selected option without any change.



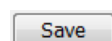
New – activates or displays empty rows for adding new record (i.e. descriptor, code, marker, condition, etc.).



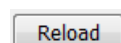
Edit – makes accessible details of selected record (row) for modification.



Remove – removes record from the tab.



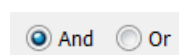
Save – stores changes on data.



Reload - reload of data



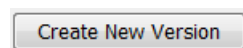
Select from thesaurus/index, search in folder – opens standardized thesaurus, data table or folder and enables searching in it and select descriptor, record or file.



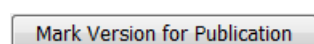
Radio button – only one option is allowed, it is applied for searching feature as an operator.



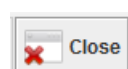
Searched text – field for entering information that is searched.



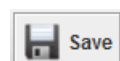
Create New Version – it creates a new version of the aggregated database, i.e. all data will be copied from the aggregated level into the new version.



Mark Version for Publication – marks particular database version that is ready for publishing.



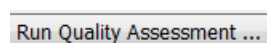
Close – ends up work in detail window of a record and abandons it. If a particular record has been modified, a control question asking on saving changes or not precedes closing the window.



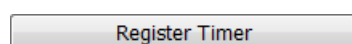
Save – saves changes made on a record and leaves the detail window of the record open.



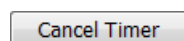
Save and close - saves a change made on a record, ends up work in detail window of the record and abandons it.



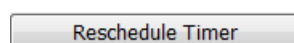
Run Quality Assessment... - launches the quality assessment based on defined parameters.



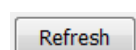
Register Timer - opens a window for setting a period for automatic data quality assessment run.



Cancel Timer – cancels timer set for a periodic data quality assessment run.



Reschedule Timer – opens a window for resetting timer.



Refresh – clears all search criteria and reloads actual data (e.g. just added or changed) from database.

4.2 General Functionalities of Main Registers

4.2.1 Column Customisation

The columns of each tab in the working area are customisable. One can move the displayed column to a desired place in the table by clicking on the head of the column and drag it to the desired position (Figure 4.2.1-1 and 4.2.1-2). Further, in the Versioning and Data Quality Analysis registers columns can be hidden (and displayed again) by right click on column head and using given options (Figure 4.2.1-3).

For arranging columns to the default settings, close the application.

Standard EuroFIR Vocabularies

Components	Acquisition Types	Units	Matrix Units	Reference Types	Value Types	Method Types	Method Indicators	Component Groups	
Id	Additional...	Descriptor	Code	Scope Note	Synonyms	Creation	Creation by	Mutation	Mutation ...
1		Article in ...	AB	Used either		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	More nor...	Article in J...	AJ			Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4		Article in ...	AR			Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5		Book	B			Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7		File or Dat...	F	Use for el...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8		Journal iss...	JI	Use with e...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	E = else. ...	Other refe...	E	Other refe...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11		Pamphlet,...	PA	Use for a ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10		Personal c...	P	Personal c...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9		Product la...	L	Use for a ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
15		Reference...	X	Use when ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser

Figure 4.2.1-1

Standard EuroFIR Vocabularies

Components	Acquisition Types	Units	Matrix Units	Reference Types	Value Types	Method Types	Method Indicators	Component Groups	
Id	Additional...	Descriptor	Scope Note	Synonyms	Code	Creation	Creation by	Mutation	Mutation ...
1		Article in ...	Used eithe...		AB	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	More nor...	Article in J...			AJ	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4		Article in ...			AR	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5		Book			B	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7		File or Dat...	Use for el...		F	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8		Journal iss...	Use with e...		JI	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	E = else. ...	Other refe...	Other refe...		E	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11		Pamphlet,...	Use for a ...		PA	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10		Personal C...	Personal C...		P	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9		Product la...	Use for a ...		L	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
15		Reference...	Use when ...		X	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser

Figure 4.2.1-2

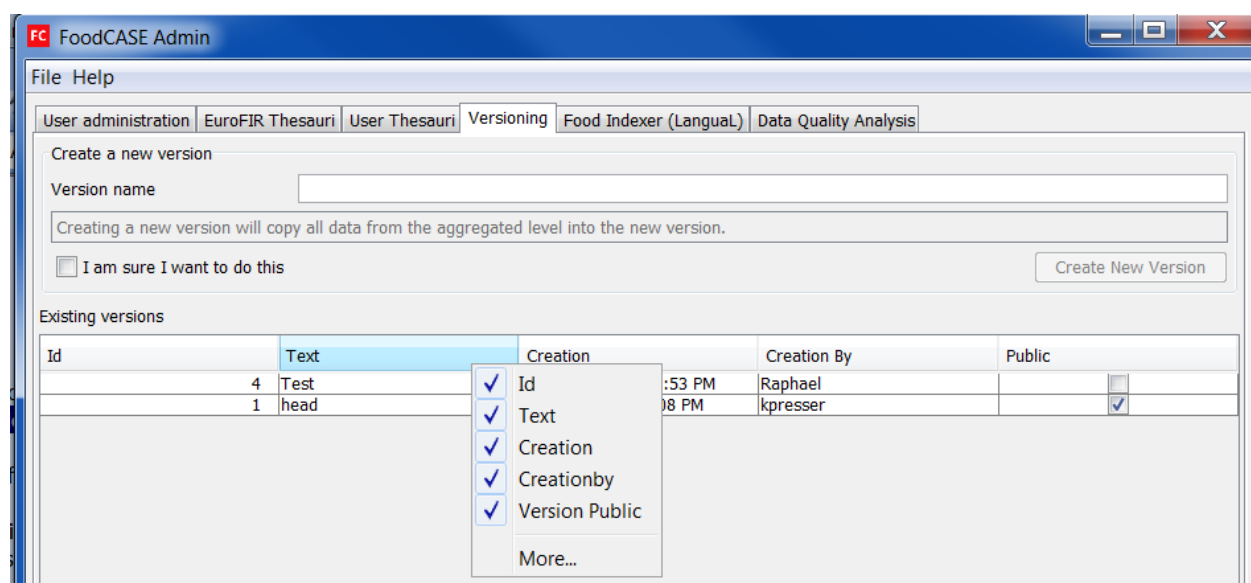


Figure 4.2.1-3

4.2.2 Simple Copy and Paste Exporting

Individual row can be copied to another application (e.g. Excel, Word) with **Ctrl+C** and **Ctrl+V** keys (Figures 4.2.2-1 and 4.2.2-2).

Components	Acquisition Types	Units	Matrix Units	Reference Types	Value Types	Method Types	Method Indicators	Component Groups				
Id	Code	Descriptor	Scope Note	Additional...	Is For Va...	Is For Co...	Synonyms	Mutation	Mutation ...	Creation	Creation by	Editable
92	Karitest			Cafetier V...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sep 6, 2011	kpresser	Sep 6, 2011	kpresser	<input checked="" type="checkbox"/>
93	Tasse Cap...			1 ATE = 1...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sep 7, 2011	esther	Sep 7, 2011	esther	<input checked="" type="checkbox"/>
1	ATE	alpha-toco...		1 BCE = 1...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
2	BCE	beta-carot...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
24	egg(s)	chicken eg...			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mar 17, 2...	kpresser	Mar 17, 2...	kpresser	<input type="checkbox"/>
22	dl	declitre			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mar 17, 2...	kpresser	Mar 17, 2...	kpresser	<input type="checkbox"/>
3	g	gram		ISO 1000:...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
4	kcal	kilocalorie			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
5	kg	kilogram		ISO 1000:...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
6	kJ	kilojoule		ISO 1000:...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
7	l	litre		Volume u...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
16	ug	microgram		ISO 1000:...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
17	ul	microlitre		ISO 1000:...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>

Figure 4.2.2-1

	A	B	C	D	E	F	G	H	I	J	K	L	M
		7 l	litre		Volume unit outside ISO 1000:1992, but recognized by CIPM as having to be retained because of its practical importance. ISO prefixes (e.g. deci, centi, milli, micro, etc.) may be attached to the unit to form multiples.	TRUE	TRUE		2009-10-21 15:15:28.543	kpresser	2007-09-03 16:00:00.0	kpresser	FALSE
1													

Figure 4.2.2-2

4.2.3 Ascending/Descending Order

Left click on the head of the column orders rows in ascending or descending way.

Ordering is following: first are words beginning with special characters (e.g. "+", "%", "_", "/", "'", " "), numbers, second are words starting in English alphabet and special letters (e.g. ä, š) close the order.

4.2.4 Filtering Options in Data Quality Analysis Register

Some columns contain a drop-down arrow, which allows filter information in a table. Activation of the drop-down list on a column header shows filtering criteria specific to the column (Figure 4.2.4-1). Advanced filter can be set to an individual column by selecting “(Custom)” functionality and using Custom AutoFilter (Figure 4.2.4-2).

Requir...	Entity	Name	Description	Creation	Creation by	Mutation	MutationBy
147	Aggregated C...	Acquisition type k...	(All)	Jun 13, 2011 7:27...	rmock	Jun 24, 2011 3:23...	rmock
169	Aggregated C...	At least one const...	(Blanks)	Jun 13, 2011 9:57...	rmock	Jun 24, 2011 3:59...	rmock
170	Aggregated C...	At least one refer...	(Non Blanks)	Jun 13, 2011 10:1...	rmock	Jun 24, 2011 3:24...	rmock
105	Aggregated C...	Contributing value...	(Custom)	Jun 6, 2011 3:23...	rmock	Jun 24, 2011 3:24...	rmock
148	Aggregated C...	Method indicator ...	(If a standard ref...	Jun 13, 2011 7:35...	rmock	Jun 24, 2011 3:24...	rmock
149	Aggregated C...	Method type know...	Food name must	Jun 13, 2011 7:40...	rmock	Jun 24, 2011 3:24...	rmock
150	Aggregated C...	Mustfield selected...	How representat	Jun 13, 2011 8:02...	rmock	Jul 22, 2011 5:07...	rmock
152	Aggregated C...	Selected value = ...	How well does fc	Jun 13, 2011 8:25...	rmock	Jun 24, 2011 3:25...	rmock
153	Aggregated C...	Selected value ha...	If a standard ref...	Jun 13, 2011 8:27...	rmock	Jun 24, 2011 3:25...	rmock
154	Aggregated C...	SP: Mean <= Max	Mean must be <=...	Jun 13, 2011 8:28...	rmock	Jun 24, 2011 3:25...	rmock
155	Aggregated C...	SP: Mean >= Min	Mean must be >=...	Jun 13, 2011 8:29...	rmock	Jun 24, 2011 3:25...	rmock
156	Aggregated C...	SP: Median <= M...	Median must be <...	Jun 13, 2011 8:31...	rmock	Jun 24, 2011 3:25...	rmock
157	Aggregated C...	SP: Median >= Mi...	Median must be >...	Jun 13, 2011 8:33...	rmock	Jun 24, 2011 3:25...	rmock
158	Aggregated C...	SP: Std. dev. < M...	Standard deviat...	Jun 13, 2011 8:34...	rmock	Jun 24, 2011 3:26...	rmock
159	Aggregated C...	SP: Std. error <=...	Standard error m...	Jun 13, 2011 8:35...	rmock	Jun 24, 2011 3:26...	rmock
160	Aggregated C...	SP: SV <= Max	Selected value m...	Jun 13, 2011 8:36...	rmock	Jun 24, 2011 3:26...	rmock
161	Aggregated C...	SP: SV >= Min	Selected value m...	Jun 13, 2011 8:37...	rmock	Jun 24, 2011 3:26...	rmock
162	Aggregated C...	Unit Degree Brix d...		Jun 13, 2011 9:39...	rmock	Jul 22, 2011 5:21...	rmock

Figure 4.2.4-1

Custom AutoFilter

Show rows where:

Mutation

☐ Ignore time ☒ is greater than or equal to May 23, 2011 3:42:51 PM

☒ And ☐ Or

☒ Ignore time ☒ is less than

Pick a Date

April 2013

M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Time: 12:00

Figure 4.2.4-2: Filtered data based on given criteria in Custom AutoFilter

4.2.5 Colour Conventions and Indicators

White fields – active text fields accessible for modification,

Grey fields and texts – read-only, fields and buttons not accessible for modification or use.

4.2.6 Working with Registers – Opening, Adding, Editing and Deleting Record

Modifications of descriptors are partially limited since Administration Tool contains standardized thesauri and coding systems that are generally recognized by European compiler organisations and their proper use is essential for data compatibility. Thus, arbitrary modification is undesirable and hence the modification of the EuroFIR thesauri are not allowed. All these thesauri are located in the “EuroFIR Thesauri” tab.

Users with administrator rights are allowed to modify the General Settings, User Administration, User Thesauri, Versioning and Data Quality Analysis registers.

Opening Record

There are two possible ways for opening a record:

- *Single click* on a record displays detail at the bottom of the tag (Figure 4.2.6-1). This is applicable in all registers except for Quality Assessment register.
- *Double click* on a record or click on the **Open** button opens a detail window of a record. This is valid in the Quality Assessment register only. User can modify particular record in detail window (Figure 4.2.6-2).

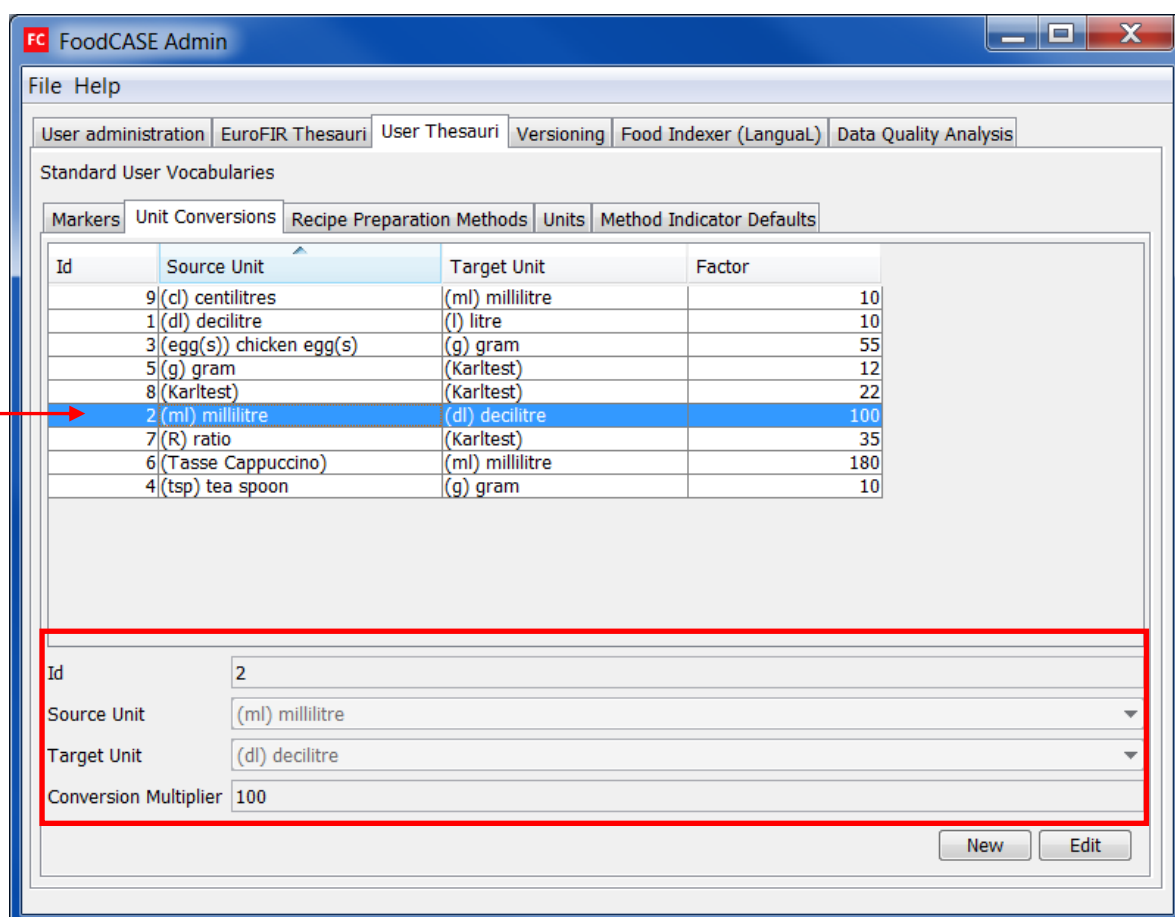


Figure 4.2.6-1

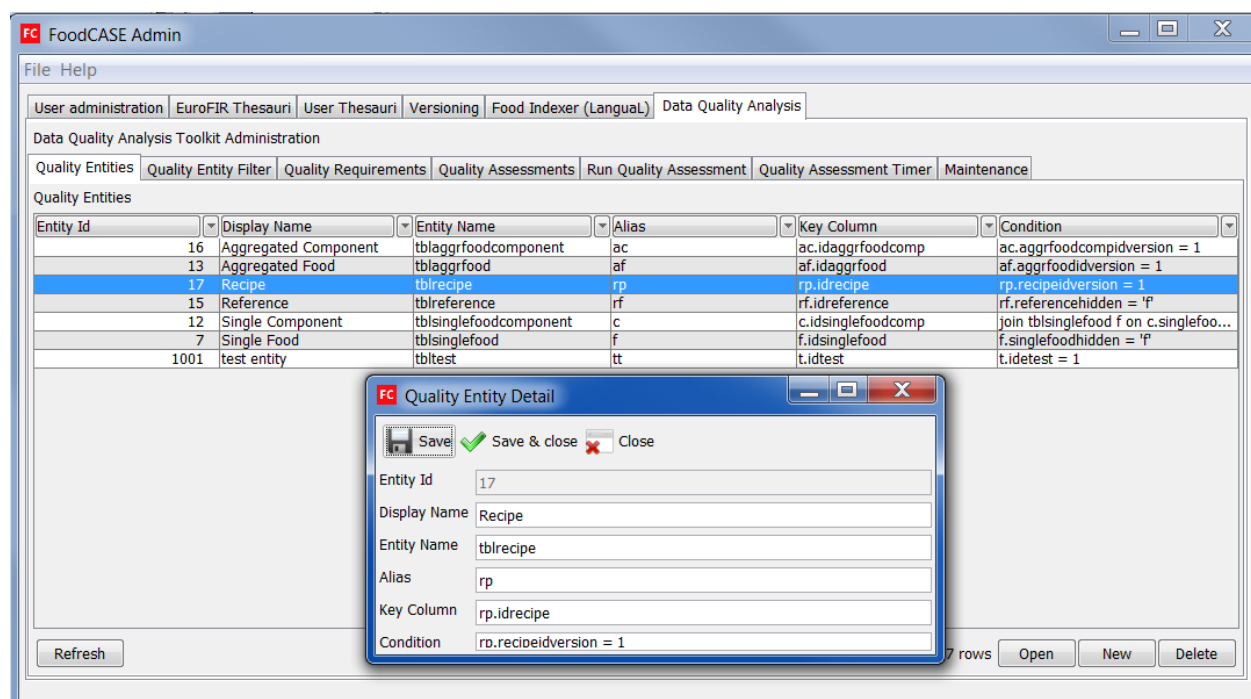


Figure 4.2.6-2

Adding New Record

Adding a new record can be conducted in all registers except for EuroFIR Thesauri register by using the **Add** or **New** button.

Editing Record

There exist two possible ways for record modification:

- Click on the **Edit** button makes record details accessible for modification (colour of the field turns to white colour) and click the **Save** (or **Save and Close**) button saves the modified information.
- Modification of information in detail window of a record and click the **Save** (or **Save and Close**) button saves the modified information.

Deleting Record

Deletion is irreversible and can be done by clicking on the **Delete** button. Deletion is possible only for following registers:

- User Administration
- Quality Assessment Analysis

Deletion must be confirmed by clicking on the **Yes** button (or the **No** button if deletion is not desired) (Figure 4.2.6-3).

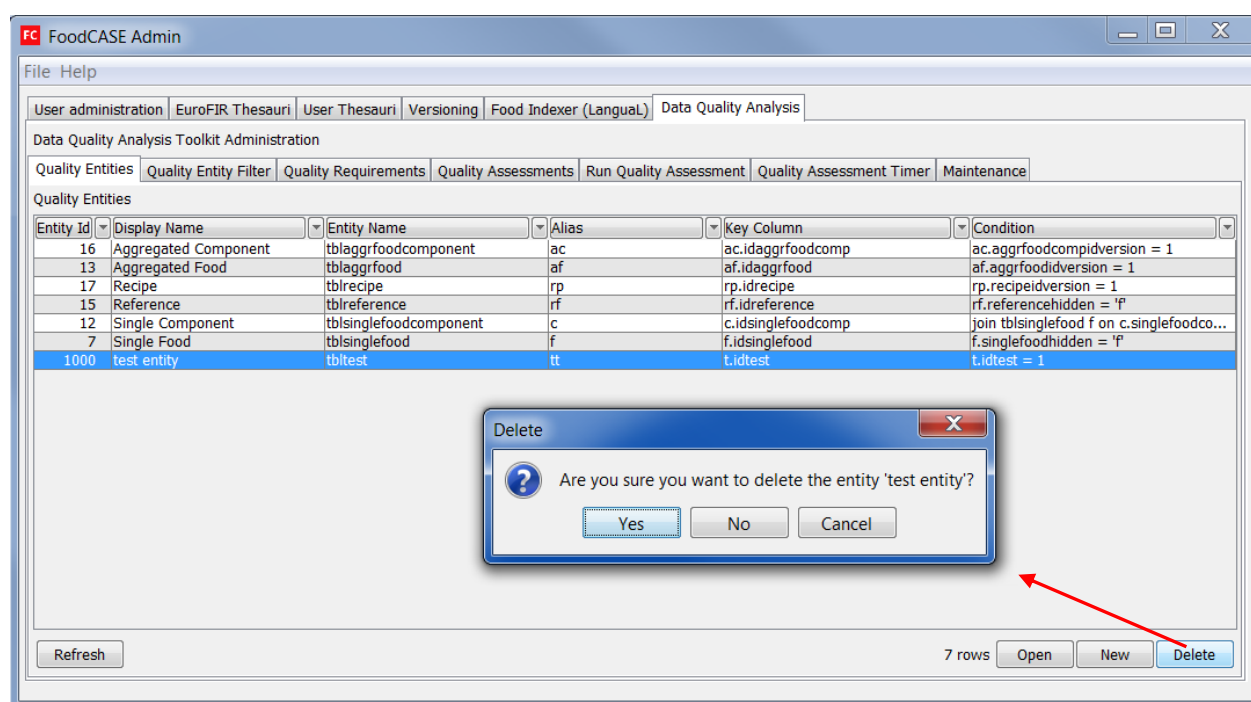


Figure 4.2.6-3

5 Main Application

5.1 Main Screen

The main screen of the application (Figure 5.1) has a very simple layout consisting of six main registers:

- General Settings
- User Administration (Figure 5.1)
- EuroFIR Thesauri
- User Thesauri
- Versioning
- Data Quality Analysis

Some registers contain further sub-registers (tabs).

When application is launched, user always sees the register which was open, when it was last closed.

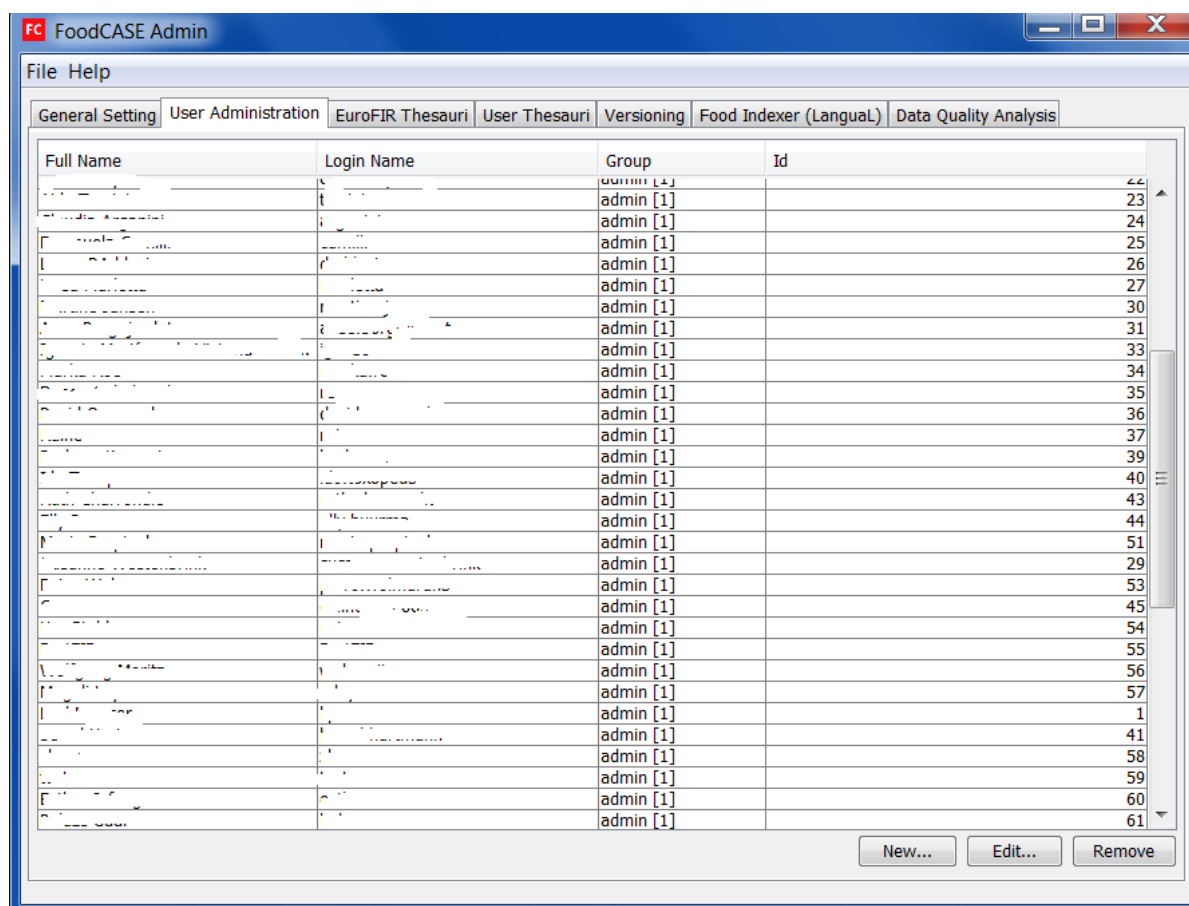
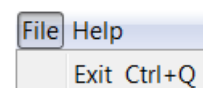


Figure 5.1

5.2 Menu Bar

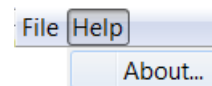
5.2.1 Menu File



Exit Ctrl+Q

Click the *Menu File* → *Exit Ctrl+Q* or use of the **Ctrl+Q** keys closes the application.

5.2.2 Menu Help



About...

Menu Help → *About* is an information window about version of the application, copyright and owner (Figure 5.2.2).



Figure 5.2.2

6 Working with Registers

6.1 General Settings

6.1.1 Bug Tracking

It displays the URL to the current BugTracker system (Figure 6.1.1-1). When compilers working in the Compiler Client application and want to report bugs, they will be directed to this URL when they click on *Menu Tools* → *BugTracker*. The BugTracker system is accessible for registered users only.

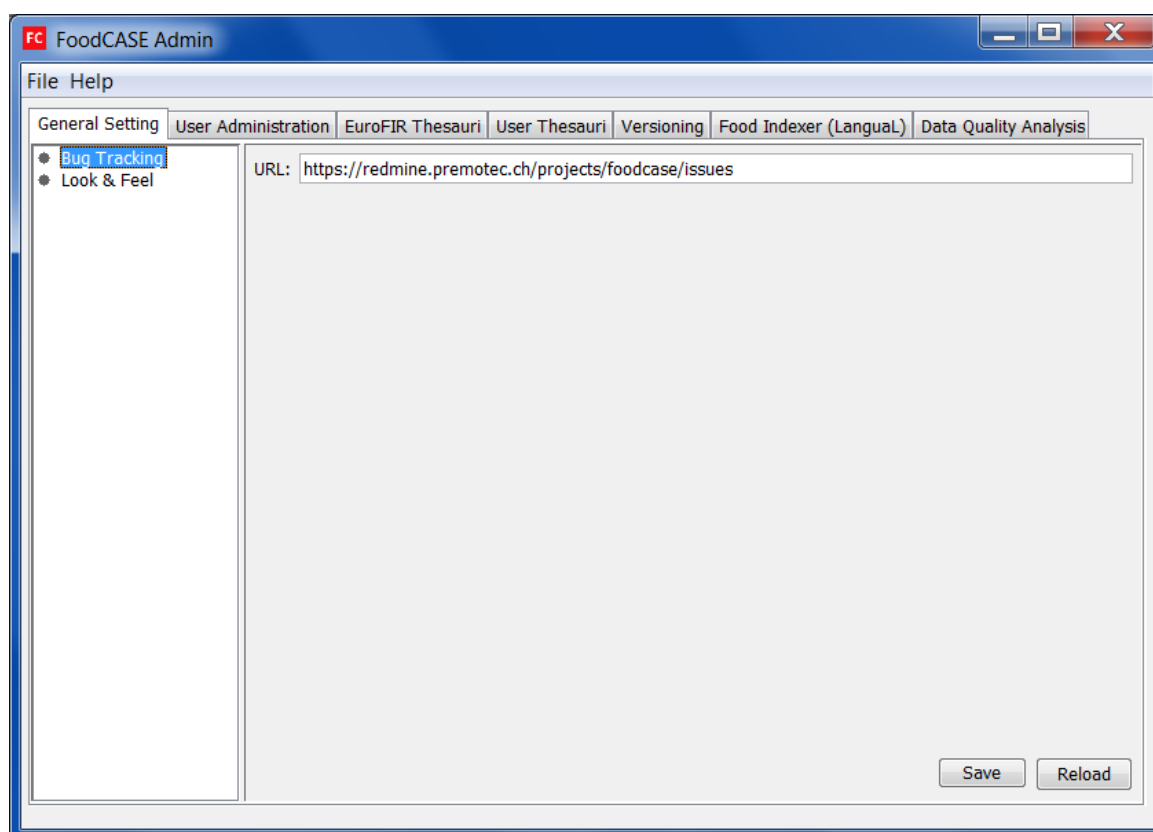


Figure 6.1.1-1

6.1.2 Look & Feel

The tab enables selection of different colours and defining a title of the Compiler Client application (Figures 6.1.2-1 and 6.1.2-2). This helps users distinguish a productive environment from a test environment. If users have installed FoodCASE twice, once to test some data and functionality (test environment) and once for their productive data, these two settings help faster recognition if one is working in the test or productive environment.

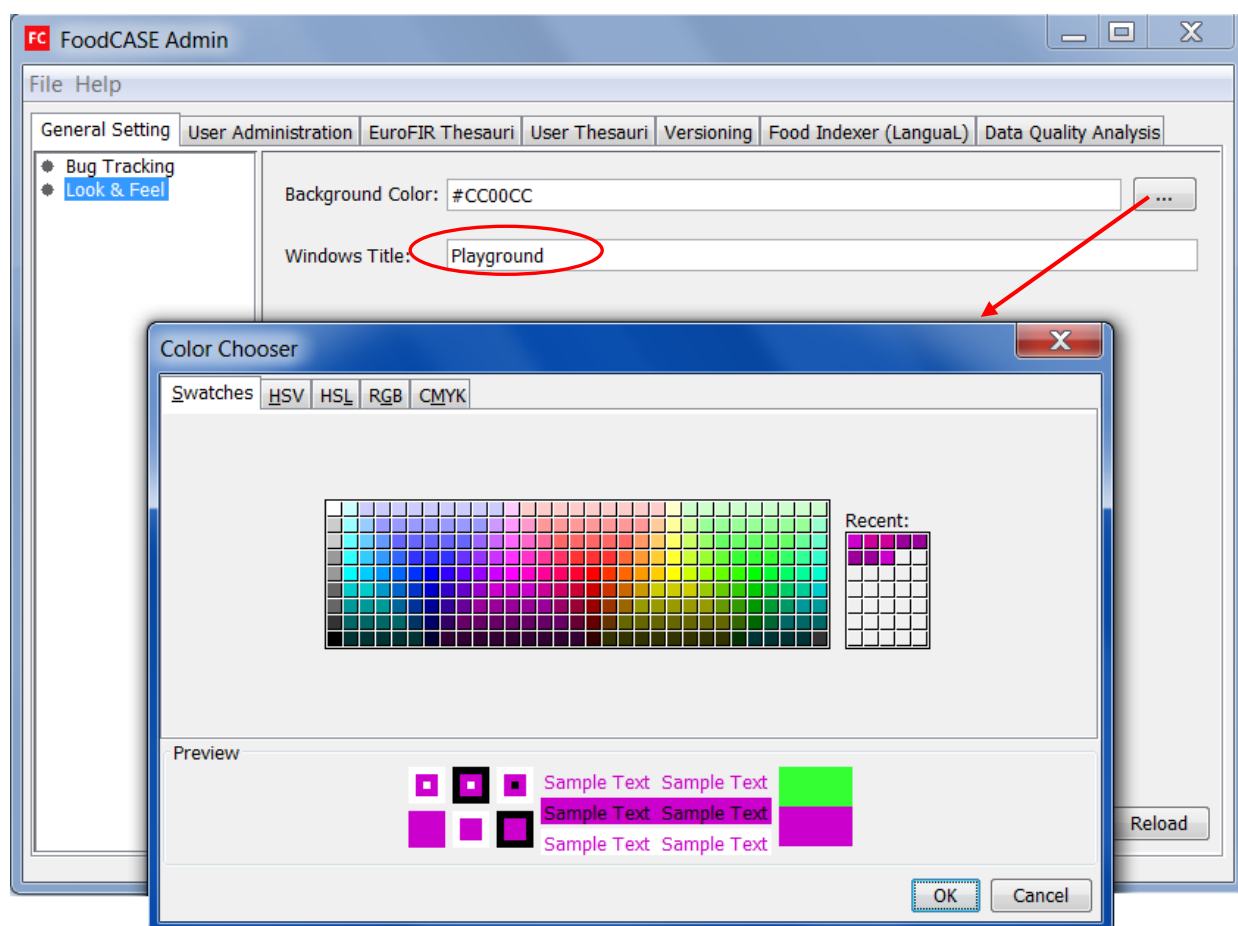


Figure 6.1.2-1

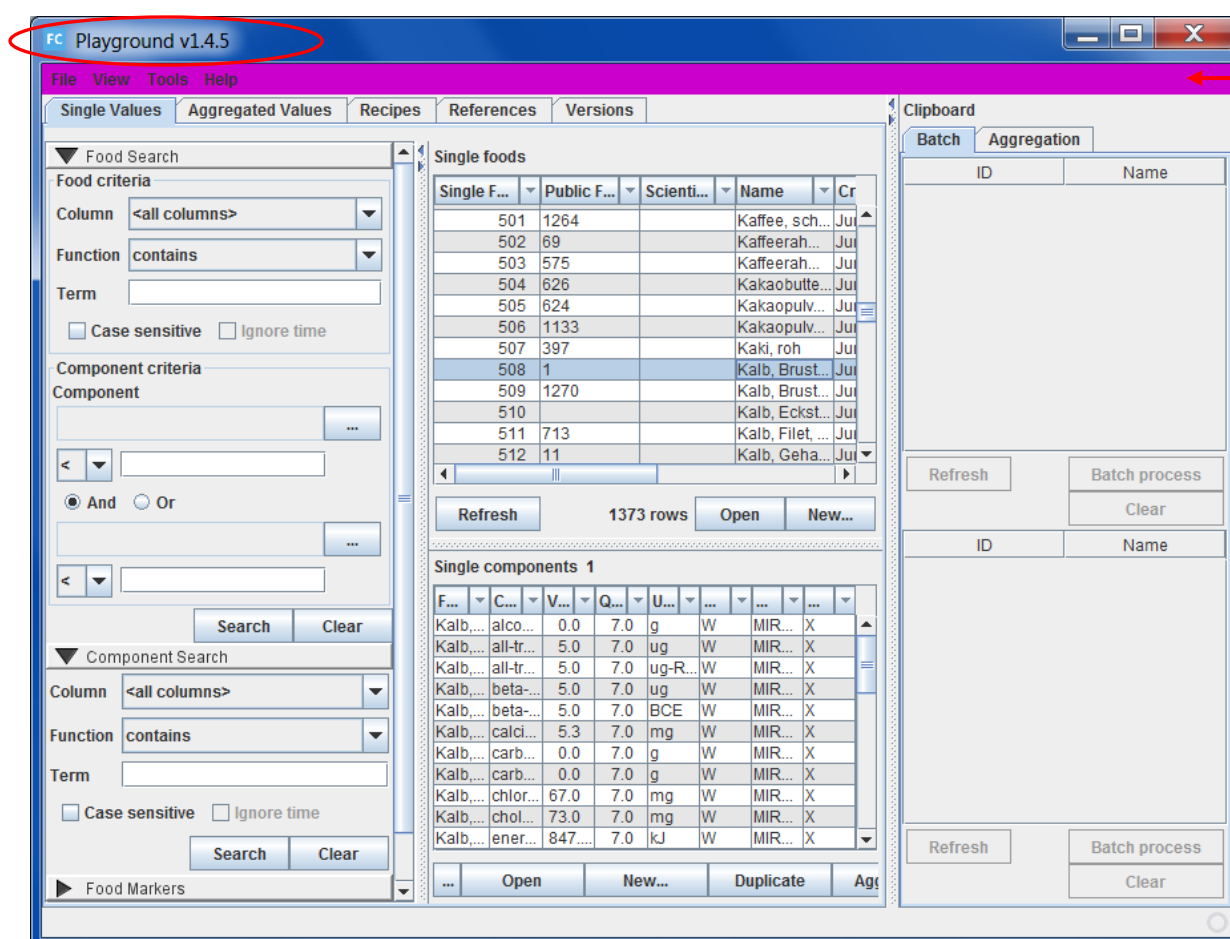


Figure 6.1.2-2: Name of the environment and the coloured strip over the menu displays in Compiler Client module

6.2 User Administration

The register is used for management of users of the application. There are two user roles created at present:

- Admin [1] – has right to work with FoodCASE Administration Tool and may define and modify existing compilers for using FoodCASE Compiler Client module,
- Compiler [2] – has an access to work with FoodCASE Compiler Client module.

6.2.1 Adding New, Modifying and Deleting Existing User

Admin can add new users and modify or delete existing users.

Adding new user

1. Go to the User Administration register (Figure 5.1)
2. Click the **New...** button
3. Complete login name, name of a user and a password (default password is displayed)
4. Click the **OK** button to save the user (Figure 6.2.1-1)

Note: When creating a new user, the administrator defines the password, but the password will not be displayed in the table. The administrator is not able to see any passwords of any user after creating the account.

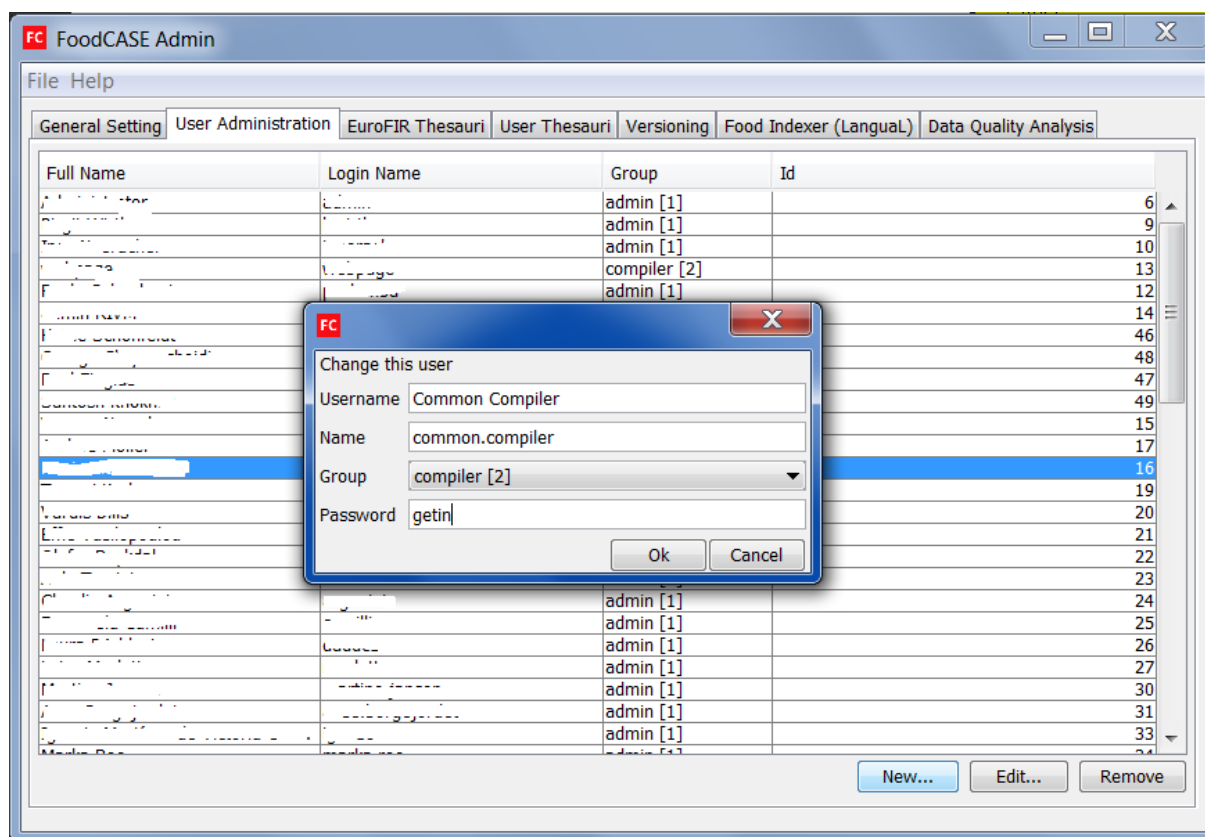


Figure 6.2.1-1

Modifying existing user

1. Go to the User administration register (Figure 5.1)
2. Set cursor on a user
3. Click the **Edit...** button
4. Edit login name, name of a user and add a password
5. Click the **OK** button to save changes (Figure 6.2.1-2)

Note: When a user forgets his/her password, the administrator cannot give it to him again but the administrator can overwrite the password, give this new password to the user.

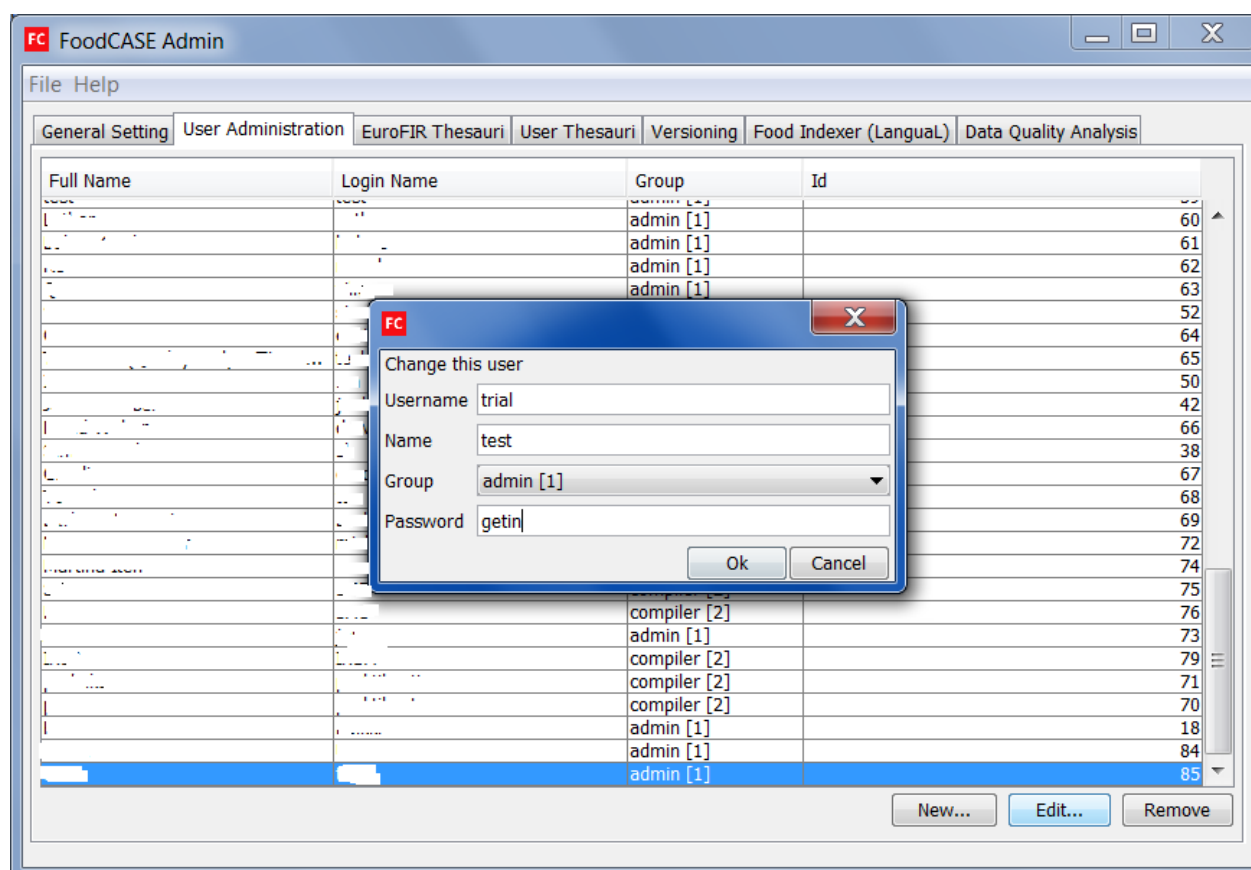


Figure 6.2.1-2

Deleting existing user

For removing a user, set the cursor on desired user and click the **Remove** button. The user is immediately deleted from the list and losses all access rights for FoodCASE.

6.3 EuroFIR Thesauri

The register is used for viewing EuroFIR thesauri. There are following thesauri included: Components, Acquisition Types, Units, Matrix Units, Reference Types, Value Types, Method Types, Method Indicators and Component Groups (Figure 6.3).

EuroFIR thesauri have common concept with following fields: code, descriptor, scope note, additional information, synonyms and related terms. Code and descriptor are mandatory, while other fields are optional and are useful for complementary and unambiguous description of a concept.

Each thesaurus contains column "Id", which contains database identifiers for listed descriptors and columns indicating who and when created and modified a record.

Since EuroFIR thesauri are standardized vocabularies that are recognized by compiler organisations, they are not modifiable in FoodCASE.

FoodCASE Admin

File Help

User administration EuroFIR Thesauri User Thesauri Versioning Food Indexer (Language) Data Quality Analysis

Standard EuroFIR Vocabularies

Components Acquisition Types Units Matrix Units Reference Types Value Types Method Types Method Indicators Component Groups

Id	Name	Code	Public	Chebi	Component Group	Eurofoods	Import Source	Standard...	Remarks	Infoods	Creation	Creation by	Mutation
125	fatty acid 16:1 remainder	F16:1K	<input type="checkbox"/>					milligram			May 25, 2...	kpresser	May 25, 2...
127	fatty acid 16:1 trans	F16:1TRS	<input type="checkbox"/>					milligram			May 25, 2...	kpresser	May 25, 2...
128	fatty acid 16:2	F16:2	<input type="checkbox"/>					milligram			May 25, 2...	kpresser	May 25, 2...
2053	fatty acid 16:2 n-4 cis,cis	F16:2CN4	<input type="checkbox"/>								May 25, 2...	IUnwin	May 25, 2...
129	fatty acid 16:3	F16:3	<input type="checkbox"/>					milligram			May 25, 2...	kpresser	May 25, 2...
2054	fatty acid 16:3 n-3 all-cis	F16:3CN3	<input type="checkbox"/>								May 25, 2...	IUnwin	May 25, 2...
130	fatty acid 16:4	F16:4	<input type="checkbox"/>					milligram			May 25, 2...	kpresser	May 25, 2...
2055	fatty acid 16:4 n-3 all-cis	F16:4CN3	<input type="checkbox"/>								May 25, 2...	IUnwin	May 25, 2...
131	fatty acid 16:4 unidentified	F16:4UN	<input type="checkbox"/>					milligram			May 25, 2...	kpresser	May 25, 2...

Id 129

Name

Code F16:3

Component group

Euro foods

Infoods

Chebi

Public ☐

Standard unit milligram

Remarks

Significant digits 3

Figure 6.3

6.3.1 Components

It is a list of EuroFIR component identifiers with codes and recommended measure units. The tab includes space for recording complementary Chebi, Eurofoods and INFOODS component codes.

Only values for components ticked for "Public" will be automatically exported for publishing, e.g. on a website (Figure 6.3.1). The thesaurus is in read-only mode.

The screenshot shows the 'FoodCASE Admin' application window. The 'Components' tab is active, displaying a table of component identifiers. The table has columns for Id, Name, Code, Public, Chebi, Compon..., Eurofoods, Import S..., Standard..., Remarks, Infoods, Creation, Creation by, Mutation, and Mutation. The 'Public' column has checkboxes, and the 'Standard unit' column has text entries like 'gram' and 'milligram'.

Below the table, there is a detailed view of component 55. The fields are as follows:

Id	55
Name	
Code	CHO
Component group	
Euro foods	
Infoods	
Chebi	
Public	<input checked="" type="checkbox"/>
Standard unit	gram
Remarks	
Significant digits	3

Figure 6.3.1

6.3.2 Acquisition Types

It is a EuroFIR thesaurus of acquisition types for indication from where information was acquired (Figure 6.3.2). The thesaurus is in read-only mode.

Standard EuroFIR Vocabularies									
Components Acquisition Types Units Matrix Units Reference Types Value Types Method Types Method Indicators Component Groups									
Id	Code	Descriptor	Additional Info	Scope Note	Synonyms	Creation	Creation by	Mutation	Mutation by
1	C	Scientific communication		Published articles, reports, ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
2	D	Independent laboratory		Laboratory report/protocol ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	E	Other acquisition type		(E = else); other acquisitio...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4	F	Food composition table/database		Compiled food composition ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5	I	Industry laboratory		Laboratory report/protocol ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	L	Food label, product information		Food label or product infor...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7	O	In-house or affiliated laboratory		(O = own); in-house or affil...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8	P	Published and peer reviewed scientific pa...		Peer reviewed scientific stu...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9	S	Value created within host-system		To be used for values creat...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10	X	Acquisition type not known				Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11	A	Authoritative Document		Use for documents publishe...		Dec 1, 2009	kpresser	Dec 1, 2009	kpresser

Id	4
Code	F
Descriptor	Food composition table/database
Scope Note	Compiled food composition table or database. Documentation of the underlying data sources varies, but further information is generally available, e.g. from the responsible compiler
Additional Info	
Synonyms	

Figure 6.3.2

6.3.3 Units

It is a EuroFIR thesaurus of measure units with additional information and scope notes that enable users apply the descriptors properly for data documentation (aggregation and recipe calculation).

In addition, the thesaurus includes overview of additional units added by compilers in the User Thesauri register (in the Units tab) (Figure 6.3.3).

The columns “*Is For Value*” and “*Is For Cooking*” indicates level at which unit can be applied.

Application for value means that unit can be used for expression of component content.

Application for cooking means that unit can be used for defining amounts of ingredients in recipe calculation.

The last column entitled “*Editable*” indicates which units are default (defined by EuroFIR) and which are added by compilers themselves. User can not remove or add tick to an EuroFIR unit.

Units added by compilers can be set either accessible for modification or blocked. Tick in the field means that the unit is modifiable. Editable units can be modified in User Thesauri register.

Changes can be seen after closing and reopening the application.

However, this tab is in read-only mode.

FoodCASE Admin

File Help

General Setting | User Administration | EuroFIR Thesauri | User Thesauri | Versioning | Food Indexer (Langual) | Data Quality Analysis

Standard EuroFIR Vocabularies

Components | Acquisition Types | Units | Matrix Units | Reference Types | Value Types | Method Types | Method Indicators | Component Groups

Id	Code	Descriptor	Scope Note	Additional Info	Is For Value	Is For Cooking	Synonyms	Mutation	Mutation ...	Creation	Creation by	Editable
1	ATE	alpha-tocopherol equivalent		1 ATE = 1 mg RRR-alpha-toco...	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
2	BCE	beta-carotene equivalent		1 BCE = 1 ug all-trans beta-ca...	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
3	g	gram		ISO 1000:1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
4	kcal	kilocalorie			<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
5	kg	kilogram		ISO 1000:1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
6	kJ	kilojoule		ISO 1000:1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
7	l	litre		Volume unit outside ISO 1000:...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
8	mg	milligram		ISO 1000:1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
9	ml	millilitre		Multiple of volume unit, l (litre)...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
10	mmol	millimole		ISO 1000:1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
11	MSE	monosaccharide equivalent		1 MSE = 1 g glucose	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
12	NE	niacin equivalent			<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
13	ng	nanogram		ISO 1000:1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
14	R	ratio	Used for pro...		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
15	ug-RE	retinol equivalent	Use for Reti...	1 RE = 1 ug all-trans retinol.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
16	ug	microgram		ISO 1000:1992 The descriptor ...	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
17	ul	microlitre		ISO 1000:1992 The descriptor ...	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Oct 21, 20...	kpresser	Sep 3, 2007	kpresser	<input type="checkbox"/>
18	PCT	per cent	Never use fo...	Although most dimensionless p...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Oct 21, 20...	kpresser	Nov 6, 2007	kpresser	<input type="checkbox"/>
22	dl	decilitre			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mar 17, 2...	kpresser	Mar 17, 2...	kpresser	<input type="checkbox"/>
23	tsp	tea spoon			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mar 17, 2...	kpresser	Mar 17, 2...	kpresser	<input type="checkbox"/>
24	egg(s)	chicken egg(s)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mar 17, 2...	kpresser	Mar 17, 2...	kpresser	<input type="checkbox"/>
91	TESTCODE	this is a testcode	use if no co...		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TESTTEST	Jul 15, 2010	asdf	Jul 15, 2010	asdf	<input checked="" type="checkbox"/>
92	Karitest				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sep 6, 2011	kpresser	Sep 6, 2011	kpresser	<input checked="" type="checkbox"/>
93	Tasse Cappuccino			Cafetier Verband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sep 7, 2011	esther	Sep 7, 2011	esther	<input checked="" type="checkbox"/>
102	cl	centilitres			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mar 21, 2...	janka.por...	Mar 20, 2...	janka.por...	<input checked="" type="checkbox"/>

Id: 102

Code: cl

Descriptor: centilitres

Scope Note:

Additional Info:

Can be used for measured values: ☒

Can be used for recipes: ☒

Synonyms:

Figure 6.3.3: Users added own descriptors – highlighted in red rectangle

6.3.4 Matrix Units

It is a EuroFIR thesaurus of matrix units, which is used to express mass quantity for which composition is given.

Tick in the field of the column “*For aggregation*” indicates in which matrix, foods, which are going to be aggregated, may be expressed (Figure 6.3.4). This tab is in read-only mode.

FoodCASE Admin

File Help

General Setting | User Administration | EuroFIR Thesauri | User Thesauri | Versioning | Food Indexer (Language) | Data Quality Analysis

Standard EuroFIR Vocabularies

Components | Acquisition Types | Units | **Matrix Units** | Reference Types | Value Types | Method Types | Method Indicators | Component Groups

ID	Code	Descriptor	Additional Info	Scope Note	Synonyms	For aggregation	Creation	Creation by	Mutation	Mutation by
1	D	per 100g dry weight				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
2	DKG	per kg dry weight				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	F	per 100g total fatty acids [not usable for aggregation]				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4	TF	per 100g total fat [not usable for aggregation]				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5	N	per g nitrogen [not usable for aggregation]				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	T	per 100g total food		Used for data from foods I...		<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7	TKG	per kg total food				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8	V	per 100ml food volume				<input checked="" type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9	W	per 100g edible portion				<input checked="" type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10	WKG	per kg edible portion				<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11	VL	per l food volume	When used for densit...			<input type="checkbox"/>	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
13	FT	per g total fat [not usable for aggregation]				<input type="checkbox"/>	Mar 5, 2010	kpresser	Mar 5, 2010	kpresser
14	VM	per ml food volume	When used for densit...			<input type="checkbox"/>	Mar 5, 2010	kpresser	Mar 5, 2010	kpresser

Id: 8

Code: V

Descriptor: per 100ml food volume

Scope Note:

Additional Info:

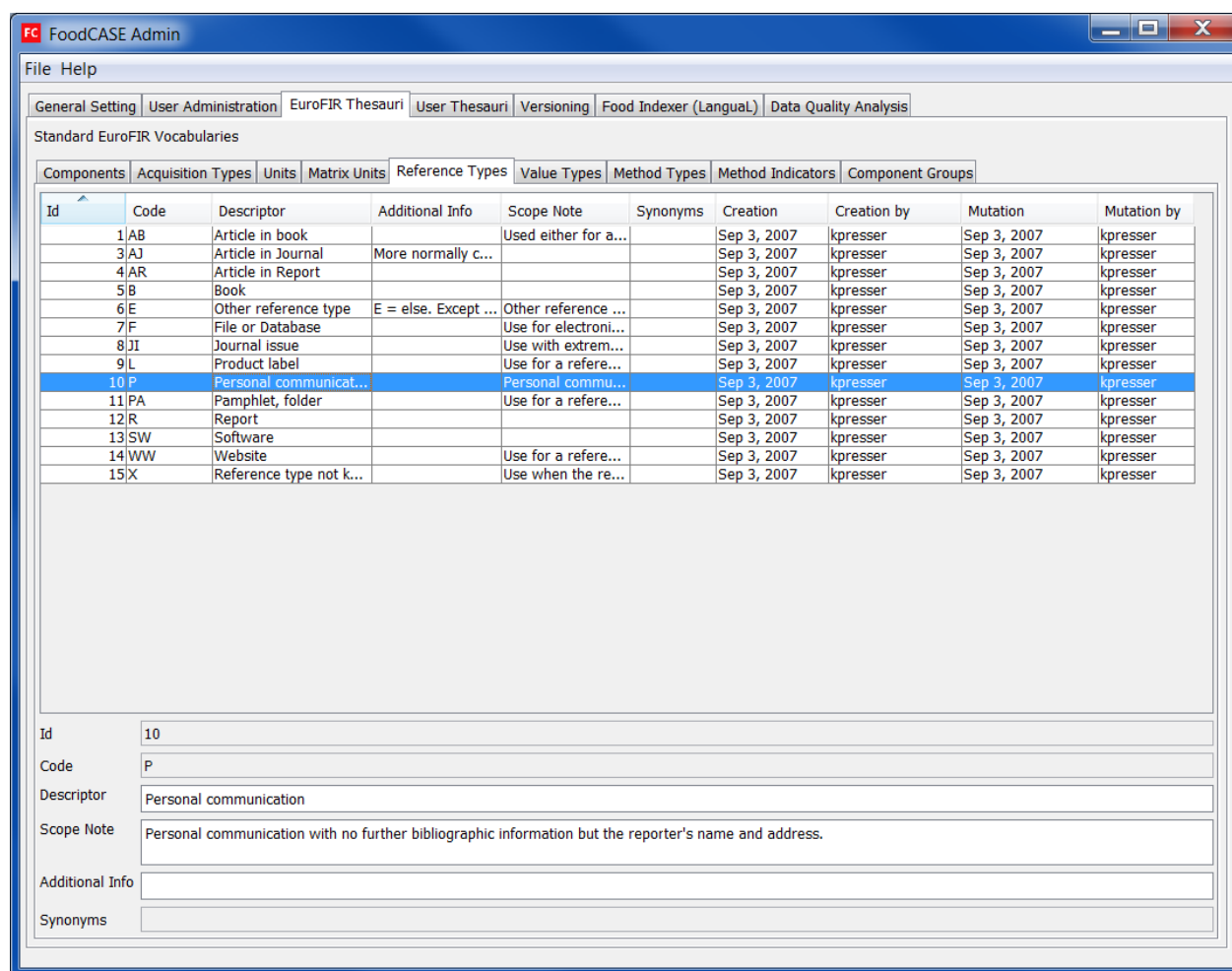
Synonyms:

for Aggregation ☒

Figure 6.3.4

6.3.5 Reference Types

It is a EuroFIR thesaurus providing kinds of sources for food composition information (Figure 6.3.5). This tab is in read-only mode.



FoodCASE Admin

File Help

General Setting User Administration EuroFIR Thesauri User Thesauri Versioning Food Indexer (Language) Data Quality Analysis

Standard EuroFIR Vocabularies

Components Acquisition Types Units Matrix Units Reference Types Value Types Method Types Method Indicators Component Groups

Id	Code	Descriptor	Additional Info	Scope Note	Synonyms	Creation	Creation by	Mutation	Mutation by
1	AB	Article in book		Used either for a...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	AJ	Article in Journal	More normally c...			Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4	AR	Article in Report				Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5	B	Book				Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	E	Other reference type	E = else. Except ...	Other reference ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7	F	File or Database		Use for electroni...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8	JI	Journal issue		Use with extrem...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9	L	Product label		Use for a refere...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10	P	Personal communicat...		Personal commu...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11	PA	Pamphlet, folder		Use for a refere...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
12	R	Report				Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
13	SW	Software				Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
14	WW	Website		Use for a refere...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
15	X	Reference type not k...		Use when the re...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser

Id: 10

Code: P

Descriptor: Personal communication

Scope Note: Personal communication with no further bibliographic information but the reporter's name and address.

Additional Info:

Synonyms:

Figure 6.3.5

6.3.6 Value Types

It is a EuroFIR thesaurus of value types, which represent character of component value (Figure 6.3.6). This tab is in read-only mode.

Id	Value type code	Value type additional info	Value type descriptor	Value type scope note	Value type syn...	Creation	Creation by	Mutation	Mutation by
1	MN	The Selected Value corr...	mean	Used when the Selecte...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
2	MD		median	Used when the Selecte...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	MI	The Selected Value corr...	minimum	Use when the Selected ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4	MX	The Selected Value corr...	maximum	Used when he Selected...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5	W		weighted	Used when the Selecte...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	LT		less than	Use only if the Selected...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7	MT		more than	Use only if the Selected...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8	BE		best estimate	Used when the Selecte...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9	TR	The trace descriptor is o...	trace	Use Trace only when th...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10	BL	BL will often be used wit...	below detection limit	Used when it is known t...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11	LZ		logical zero	Used when the Selecte...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
13	UD		undecidable	Use this Value Type wit...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
14	N	Value Type "N" is only u...	unknown	Use this value type toge...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
15	E	E = else. Except for its u...	other value type	Use for other Value Typ...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
16	X	Value type 'unknown [X]...	value type not known	Use when the Value Ty...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
17	AR		as reported	Use when the Selected ...		Dec 1, 2009	kpresser	Dec 1, 2009	kpresser
18	AV	For Value Type AV, the ...	average	Used when the Selecte...		Dec 1, 2009	kpresser	Dec 1, 2009	kpresser

Details for Value Type 14 (N):

Id: 14

Code: N

Descriptor: unknown

Scope Note: Use this value type together with a blank Selected Value and with Method Type X, if compilation work has shown the value to be unknown, i.e. there is no literature available and no estimation or calculation possible. If a Selected Value is present, but nothing is known about its origin or derivation, etc., use "value type not known [X]".

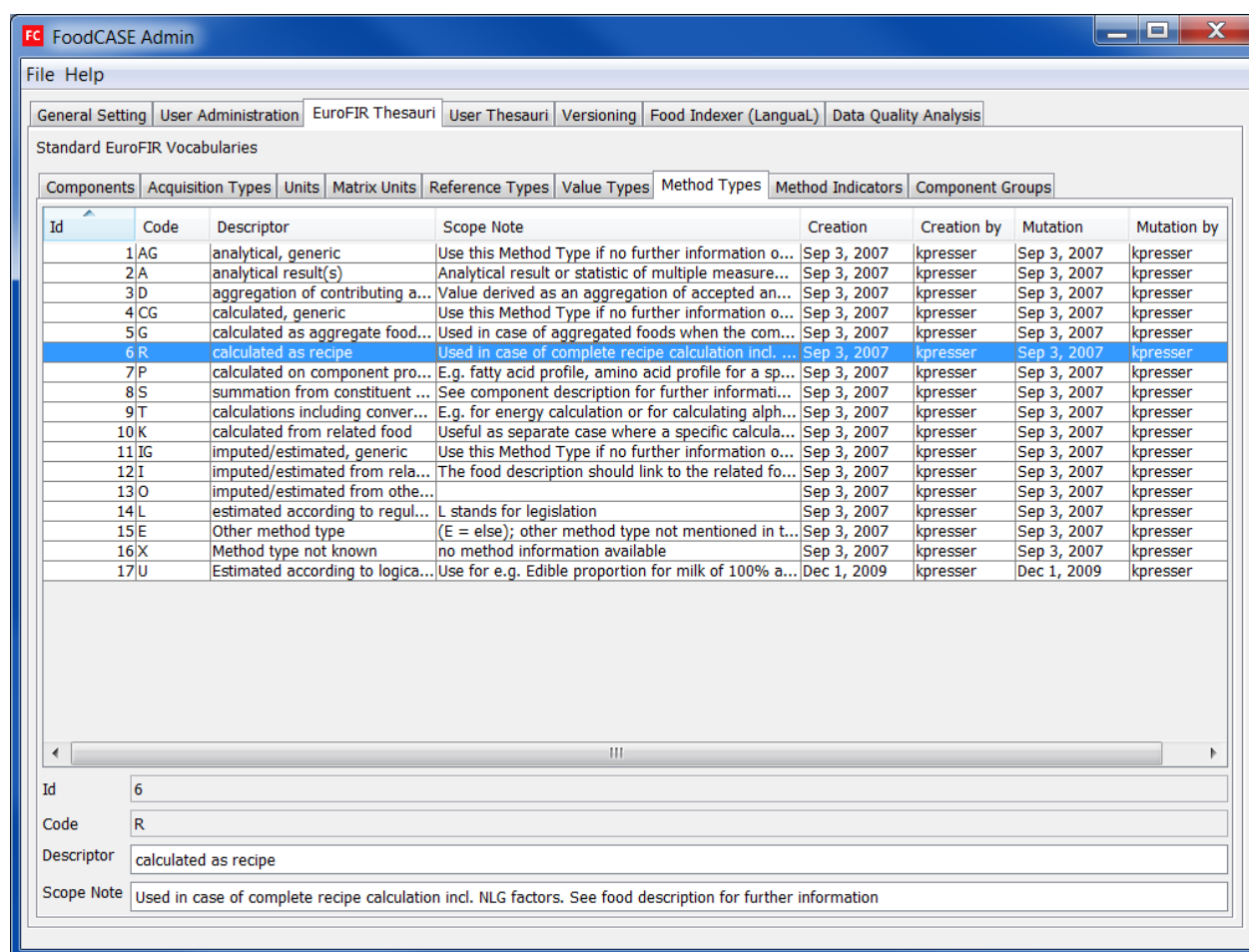
Additional Info: Value Type "N" is only useful in the table of aggregated values of a FCDB, in cases where there is no Selected Value, no statistics, etc. In cases where the compiler is completely clueless as to what value to assign. It signals missing data for future analyses and enables tables to be printed correctly.

Synonyms:

Figure 6.3.6

6.3.7 Method Types

It is a EuroFIR thesaurus of method types, which indicates procedure, used for obtaining component value (Figure 6.3.7). This tab is in read-only mode.



Id	Code	Descriptor	Scope Note	Creation	Creation by	Mutation	Mutation by
1	AG	analytical, generic	Use this Method Type if no further information o...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
2	A	analytical result(s)	Analytical result or statistic of multiple measure...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
3	D	aggregation of contributing a...	Value derived as an aggregation of accepted an...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
4	CG	calculated, generic	Use this Method Type if no further information o...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
5	G	calculated as aggregate food...	Used in case of aggregated foods when the com...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
6	R	calculated as recipe	Used in case of complete recipe calculation incl. ...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
7	P	calculated on component pro...	E.g. fatty acid profile, amino acid profile for a sp...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
8	S	summation from constituent ...	See component description for further informati...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
9	T	calculations including conver...	E.g. for energy calculation or for calculating alph...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
10	K	calculated from related food	Useful as separate case where a specific calcula...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
11	IG	imputed/estimated, generic	Use this Method Type if no further information o...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
12	I	imputed/estimated from rela...	The food description should link to the related fo...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
13	O	imputed/estimated from othe...		Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
14	L	estimated according to regul...	L stands for legislation	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
15	E	Other method type	(E = else); other method type not mentioned in t...	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
16	X	Method type not known	no method information available	Sep 3, 2007	kpresser	Sep 3, 2007	kpresser
17	U	Estimated according to logica...	Use for e.g. Edible proportion for milk of 100% a...	Dec 1, 2009	kpresser	Dec 1, 2009	kpresser

Id	6
Code	R
Descriptor	calculated as recipe
Scope Note	Used in case of complete recipe calculation incl. NLG factors. See food description for further information

Figure 6.3.7

6.3.8 Method Indicators

It is a EuroFIR thesaurus of method indicators extended with user method indicators which help assign component value with particular analytical or calculation procedure.

The column “*Formula*” contains a formula in a given syntax, so that FoodCASE is able to interpret this formula and calculate the value in the given unit. The column “*Group*” gives information to which component category (group) belongs component for which indicator is stated (Figure 6.3.8-1). The “*Usage Notes*” presents extra condition (information) for contributing components used in a formula (e.g. Figure 6.3.8-2).

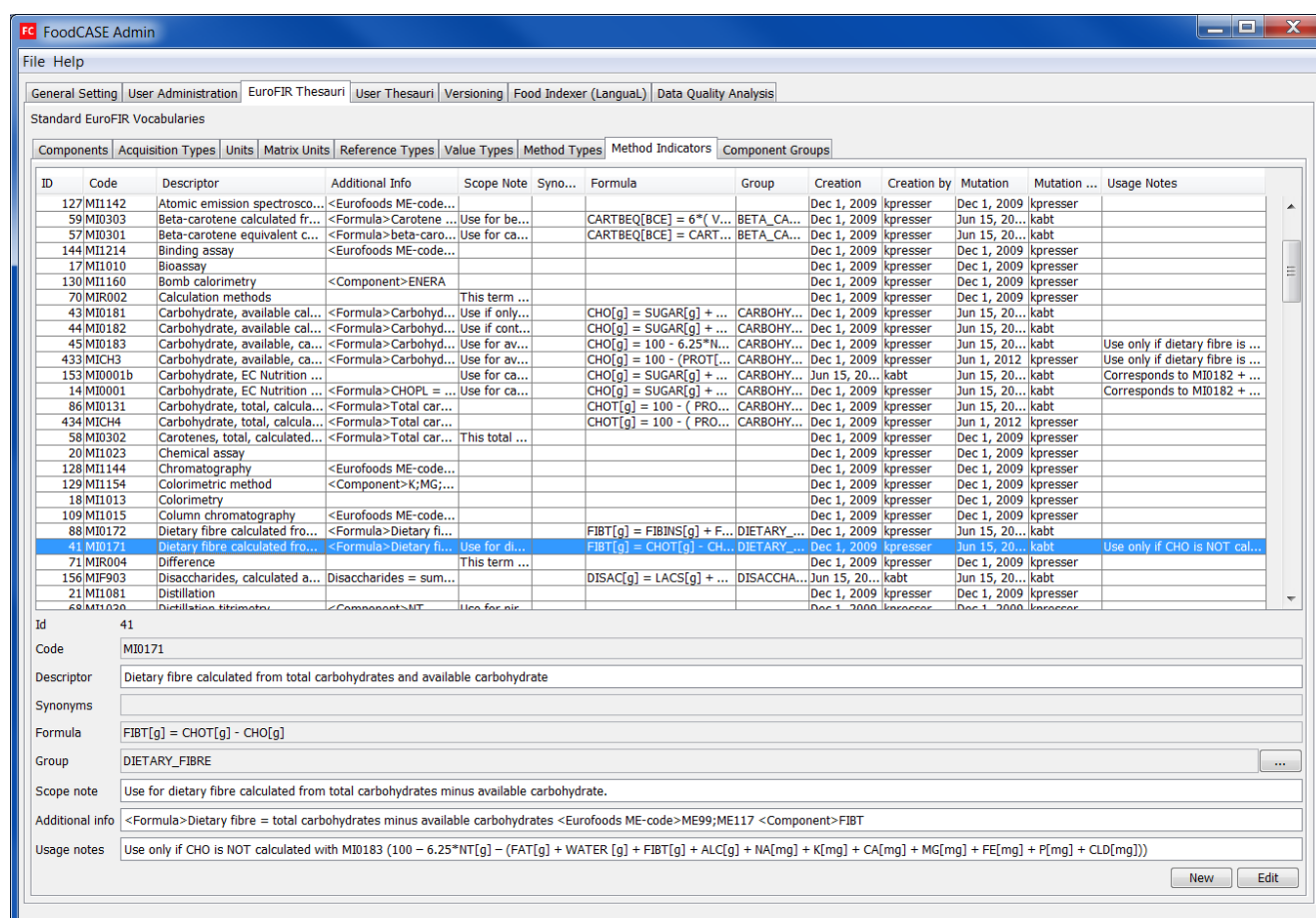


Figure 6.3.8-1

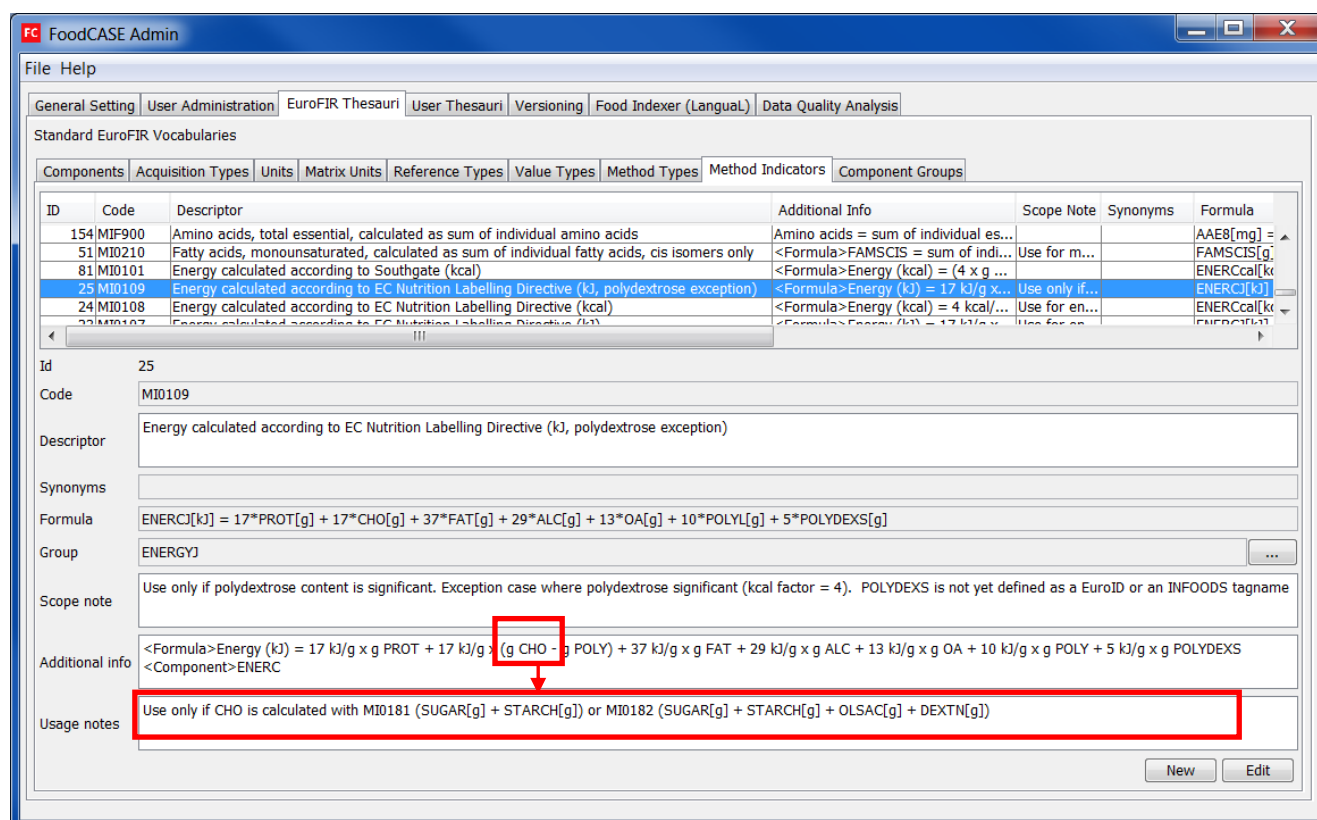


Figure 6.3.8-2

6.3.9 Component Groups

It is a list of EuroFIR component groups. Column “*Parent*” indicates superior group (Figure 6.3.9).

Id	Code	Descriptor	Scope Note	Synonyms	Parent	Additional Info	Creation	Creation by	Mutation	Mutation ...
310	GRP_STERL	Sterols	This term is for CLASSIFICATI...		291		May 25, 2...	IUnwin	May 25, 2010	IUnwin
312	GRP_SUGAR	Sugars	This term is for CLASSIFICATI...		273		May 25, 2...	IUnwin	May 25, 2010	IUnwin
313	GRP_SUGFB	Sugars in fibre	This term is for CLASSIFICATI...		312		May 25, 2...	IUnwin	May 25, 2010	IUnwin
311	GRP_SUGOH	Sugar alcohols	This term is for CLASSIFICATI...		273	Sugar alcohols (...)	May 25, 2...	IUnwin	May 25, 2010	IUnwin
321	GRP_VIT	Vitamins	This term is for CLASSIFICATI...				May 25, 2...	IUnwin	May 25, 2010	IUnwin
315	GRP_VITA	Vitamin A and related components	This term is for CLASSIFICATI...		276		May 25, 2...	IUnwin	May 25, 2010	IUnwin
316	GRP_VITB	Vitamin B components	This term is for CLASSIFICATI...		322		May 25, 2...	IUnwin	May 25, 2010	IUnwin
317	GRP_VITC	Vitamin C components	This term is for CLASSIFICATI...		322		May 25, 2...	IUnwin	May 25, 2010	IUnwin
318	GRP_VITD	Vitamin D components	This term is for CLASSIFICATI...		276		May 25, 2...	IUnwin	May 25, 2010	IUnwin
319	GRP_VITE	Vitamin E components	This term is for CLASSIFICATI...		276		May 25, 2...	IUnwin	May 25, 2010	IUnwin
276	GRP_VITFAT	Fat soluble vitamins	This term is for CLASSIFICATI...		321		May 25, 2...	IUnwin	May 25, 2010	IUnwin
322	GRP_VITH2O	Water soluble vitamins	This term is for CLASSIFICATI...		321		May 25, 2...	IUnwin	May 25, 2010	IUnwin
320	GRP_VITK	Vitamin K components	This term is for CLASSIFICATI...		276		May 25, 2...	IUnwin	May 25, 2010	IUnwin

Id	315
Code	GRP_VITA
Parent	276
Descriptor	Vitamin A and related components
Scope Note	This term is for CLASSIFICATION ONLY; DO NOT USE term to identify a specific component. Use a more precise narrower term.
Additional Info	
Synonyms	

Figure 6.3.9

6.4 User Thesauri

It is a register for additional thesauri. The title itself evokes that user can modify them by own. Those are Markers, Unit Conversions, Recipe Preparation Methods, Units and Method Indicator Defaults.

6.4.1 Markers

Markers are indexing terms used for food or component value identification. Here, in FoodCASE Administration Tool, they can be defined by user. The tab for markers is split into two sections. The left part is for single level database and the right is for the aggregated database (including recipes). Altogether, there are four entities for which markers can be defined: single food, single value, aggregated food (including recipes) and aggregated value (including values calculated as recipes) (Figure 6.4.1.1-1). These four entities are blocked for deletion. Each entity contains tree-structured groups of markers (e.g. main group – record status, subgroups – partial, checked, completed, deleted); however, it is up to users how they organise their markers.

6.4.1.1 Defining Markers

1. Go to the User Thesauri register and select the Markers tab (Figure 6.4.1.1-1)
2. By left click select a marker or marker group/sub-group to which you want add a new marker. Selected marker or group displays in the field *Name* (Figure 6.4.1.1-2)
3. Click the **Add** button at the bottom of the particular section to add a new marker. The new item integrates into the selected marker group (Figure 6.4.1.1-3)
4. Rename the “*New Marker*” as you desire in the text field *Name* and fill in description information if relevant (Figure 6.4.1.1-4)
5. Click the **Save** button in the lower right corner to save new marker. As soon as the marker is saved, it can be immediately applied in FoodCASE Compiler Client module (Figure 6.4.1.1-5), however if both applications are open at the same time, Compiler Client must be restarted to consider changes carried out in Administration Tool

Note: Individual marker turns to group as soon as another tree level is created within this marker (Figure 6.4.1.1-6)

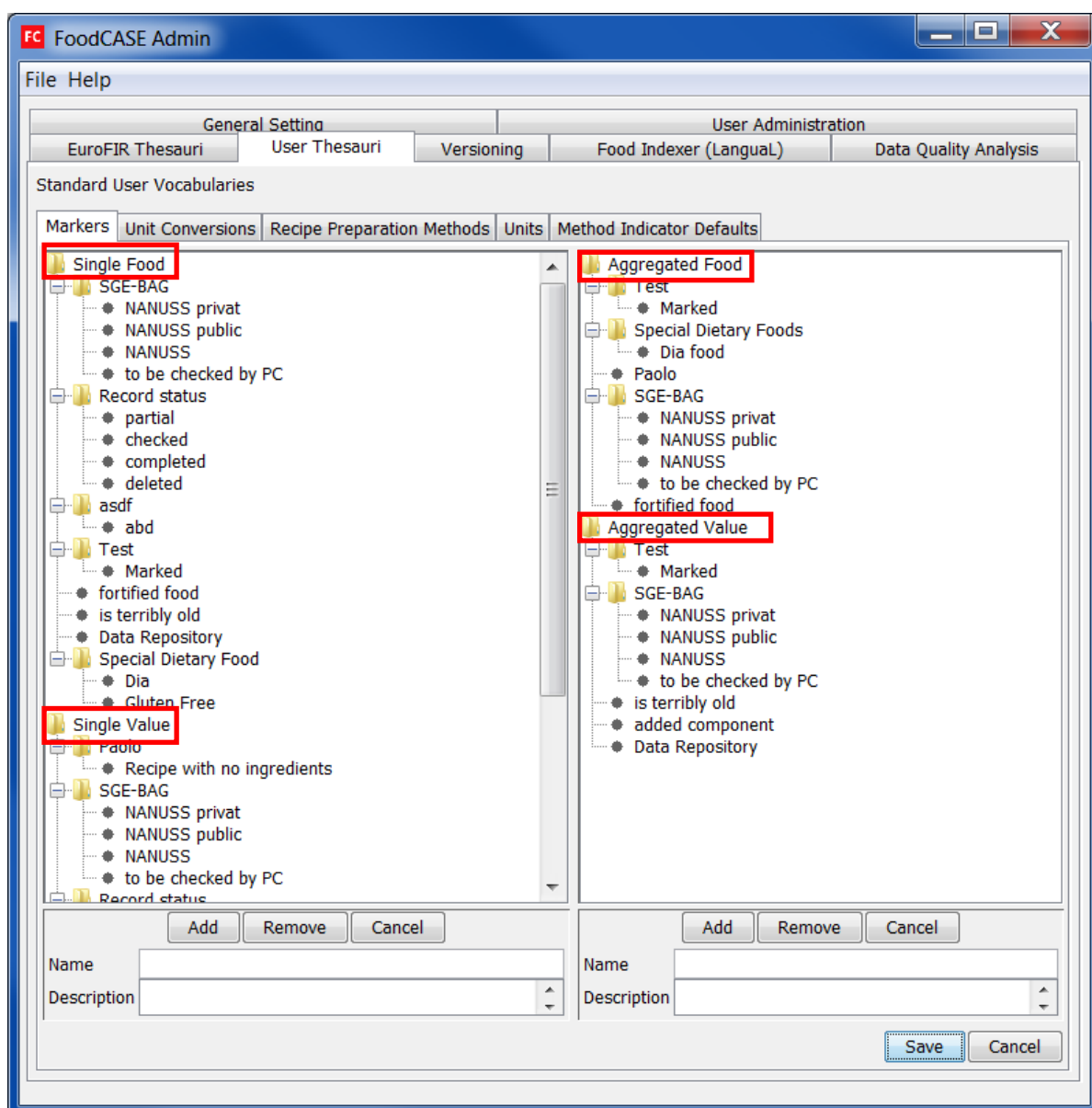


Figure 6.4.1.1-1

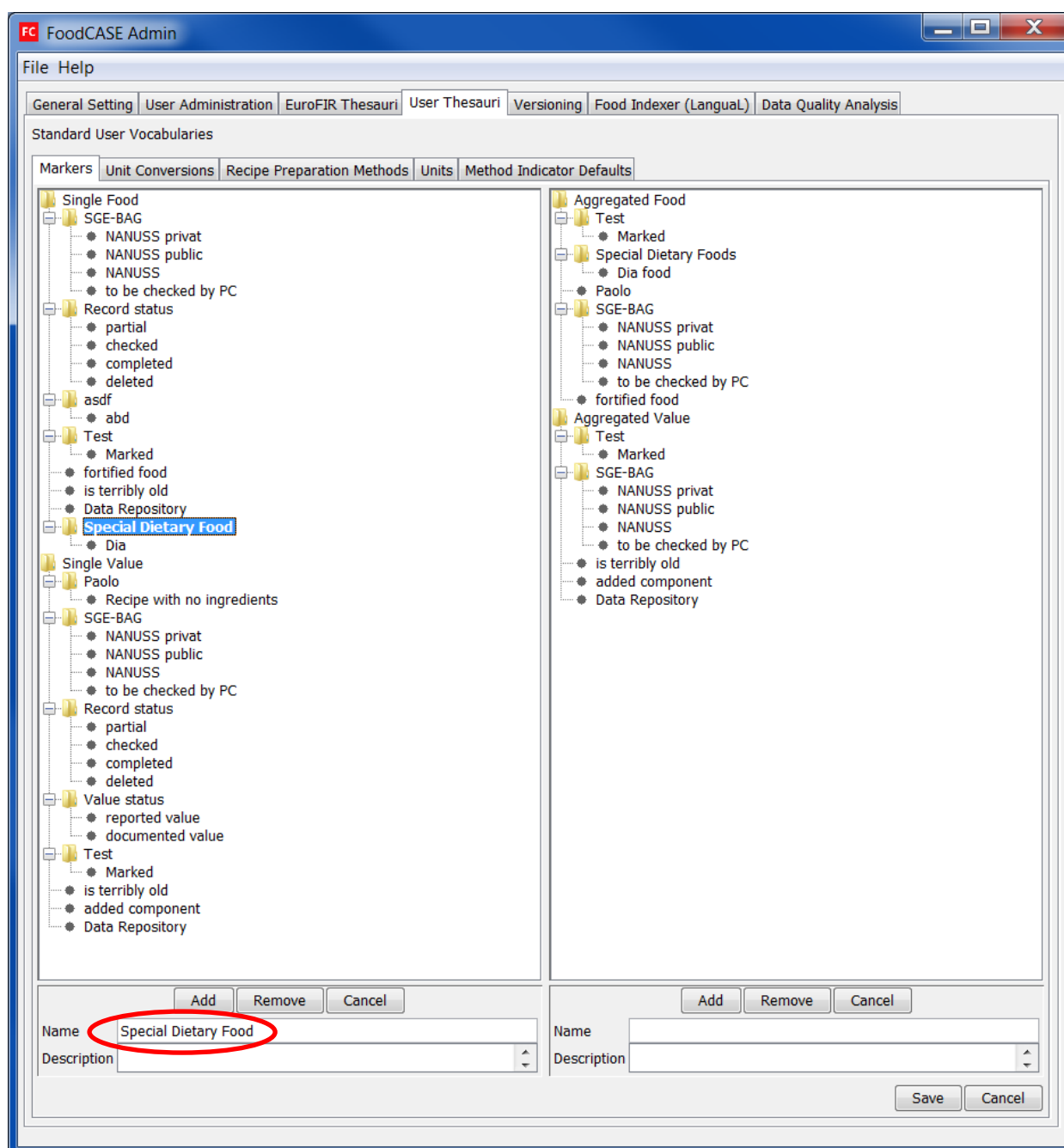


Figure 6.4.1.1-2: Highlighted group displays in the field *Name*

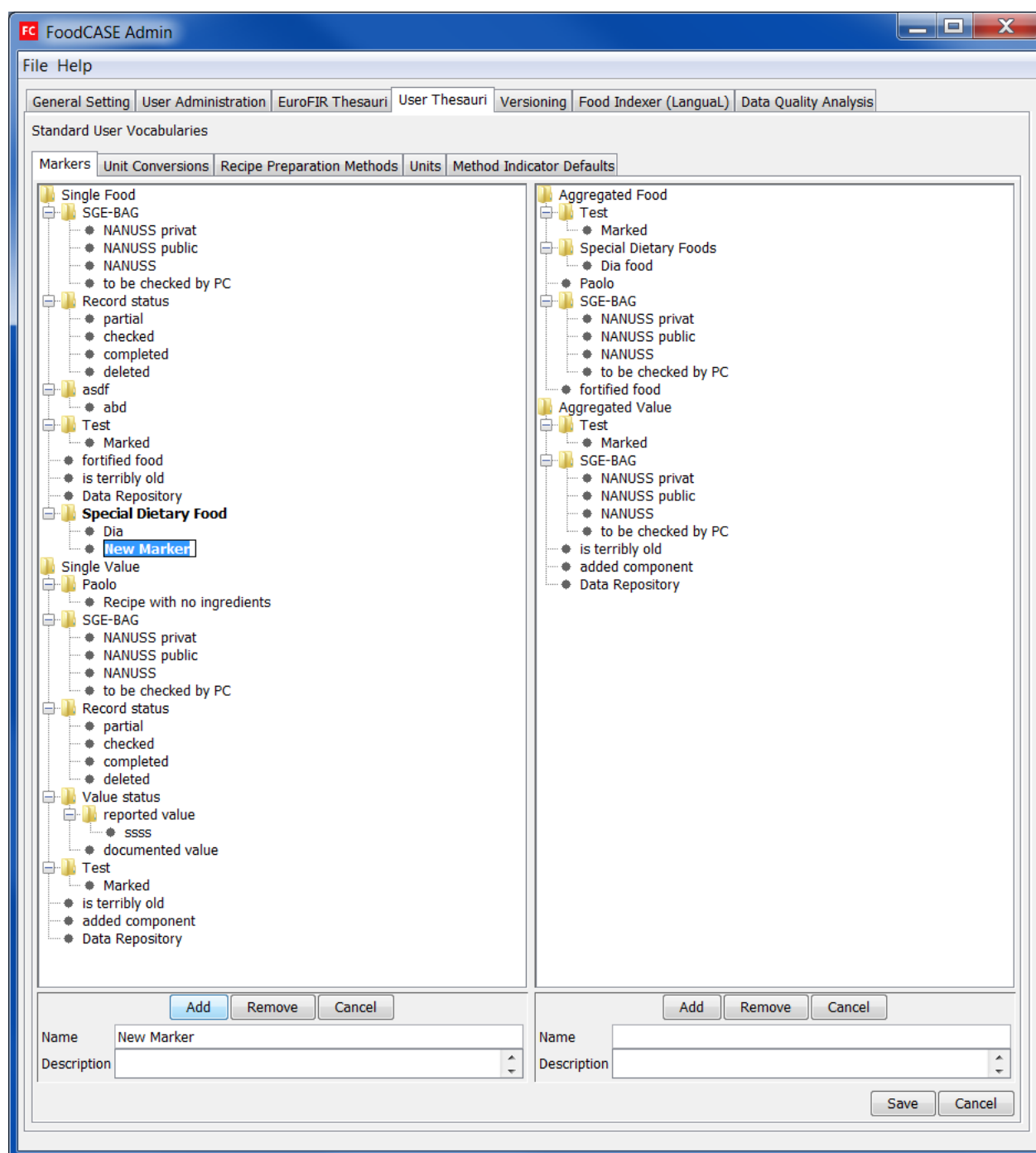


Figure 6.4.1.1-3: New marker integrated into the marker group *Special Dietary Food*

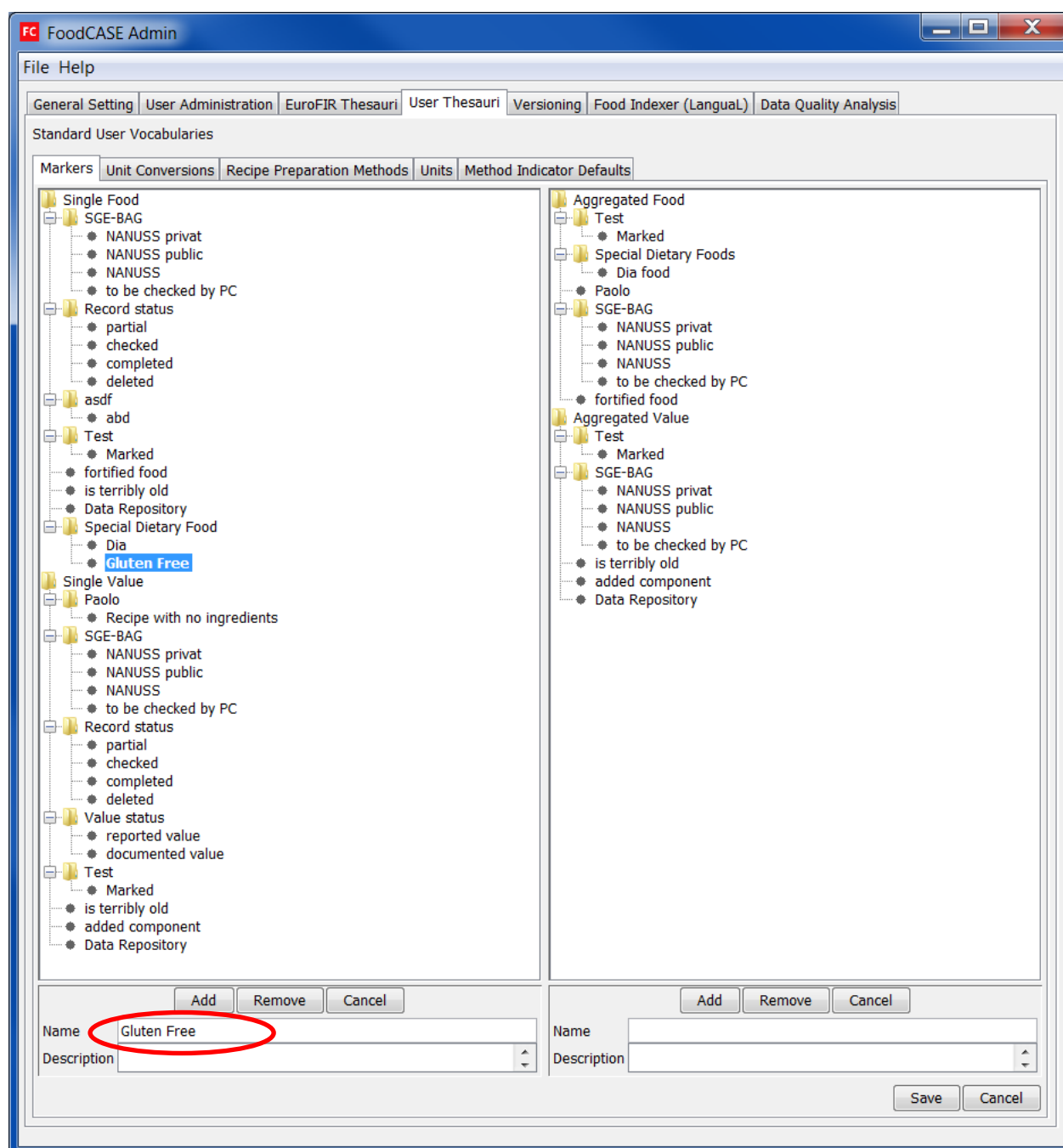


Figure 6.4.1.1-4

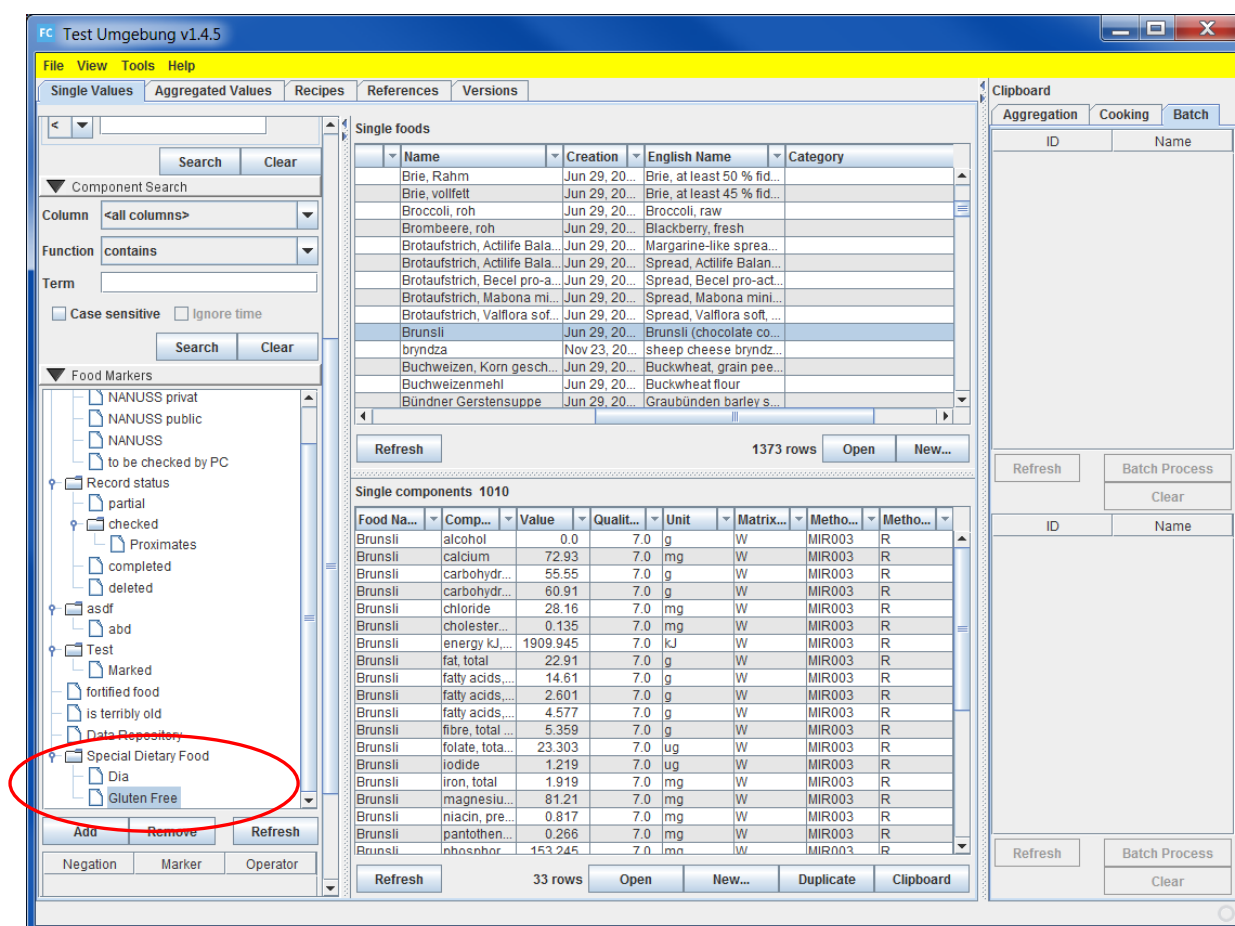


Figure 6.4.1.1-5: New marker can be applied for indexing in Compiler Client module

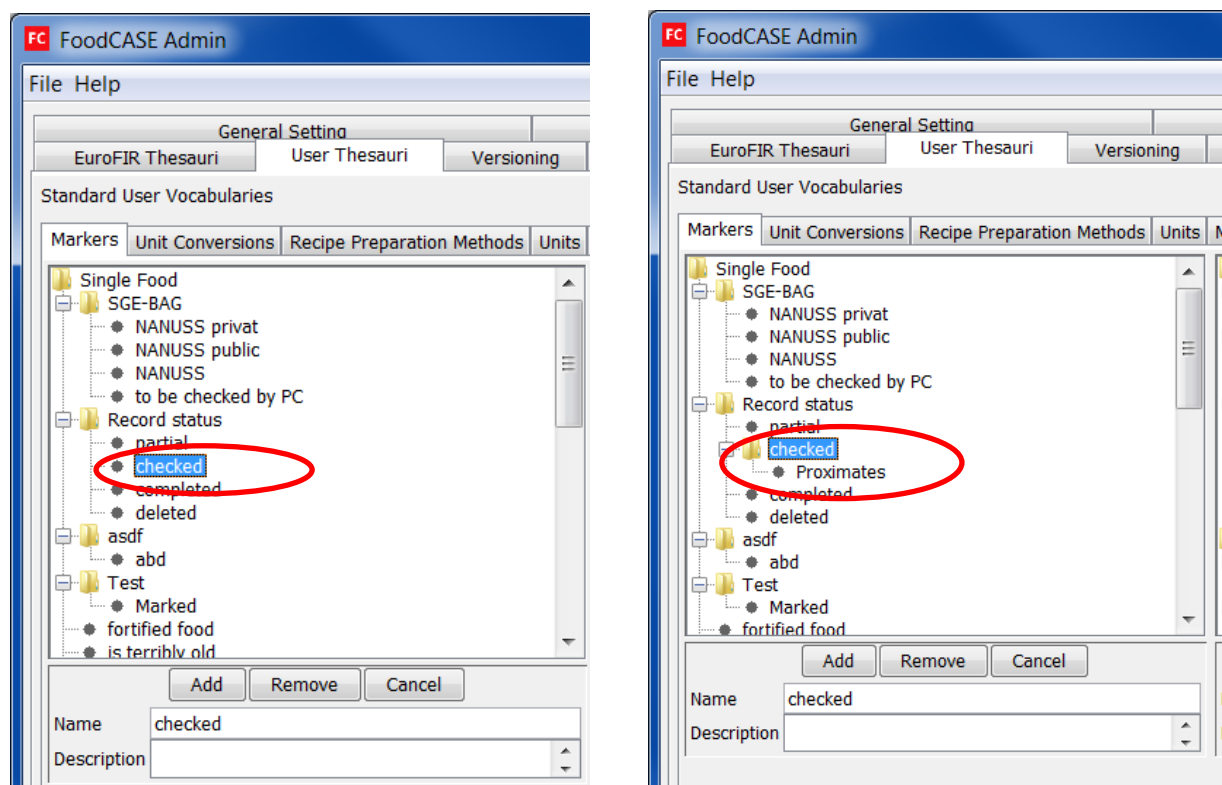


Figure 6.4.1.1-6: Individual marker ("checked") turns to group as soon as another tree level ("Proximates") is created within this marker

6.4.1.2 Updating Markers

Markers can be modified:

- By left click on a marker and simple rewriting of name in the field *Name*,
- By left click on a marker and moving it to a different position in the marker tree. Moving is possible between single and aggregated level as well.

Any changes must be confirmed by the **Save** button.

Be careful when modifying a marker, which is already used for data identification.

*Note: Any incidental or undesired modifications on markers and changes can be abolished with **Cancel** buttons, however the **Cancel** button is not more active after the **Save** button was used. There are **Cancel** buttons that are specific for single and aggregated sections and the **Cancel** button applicable for the whole tab (in the right lower corner of the tab).*

6.4.1.3 Deleting Markers

Markers can be deleted by left click on a marker and using the **Remove** button.

Any changes must be confirmed by the **Save** button.

As soon as a marker is used for data identification, it cannot be deleted and the application notifies user by a message window about how many times it is used (Figure 6.4.1.3).

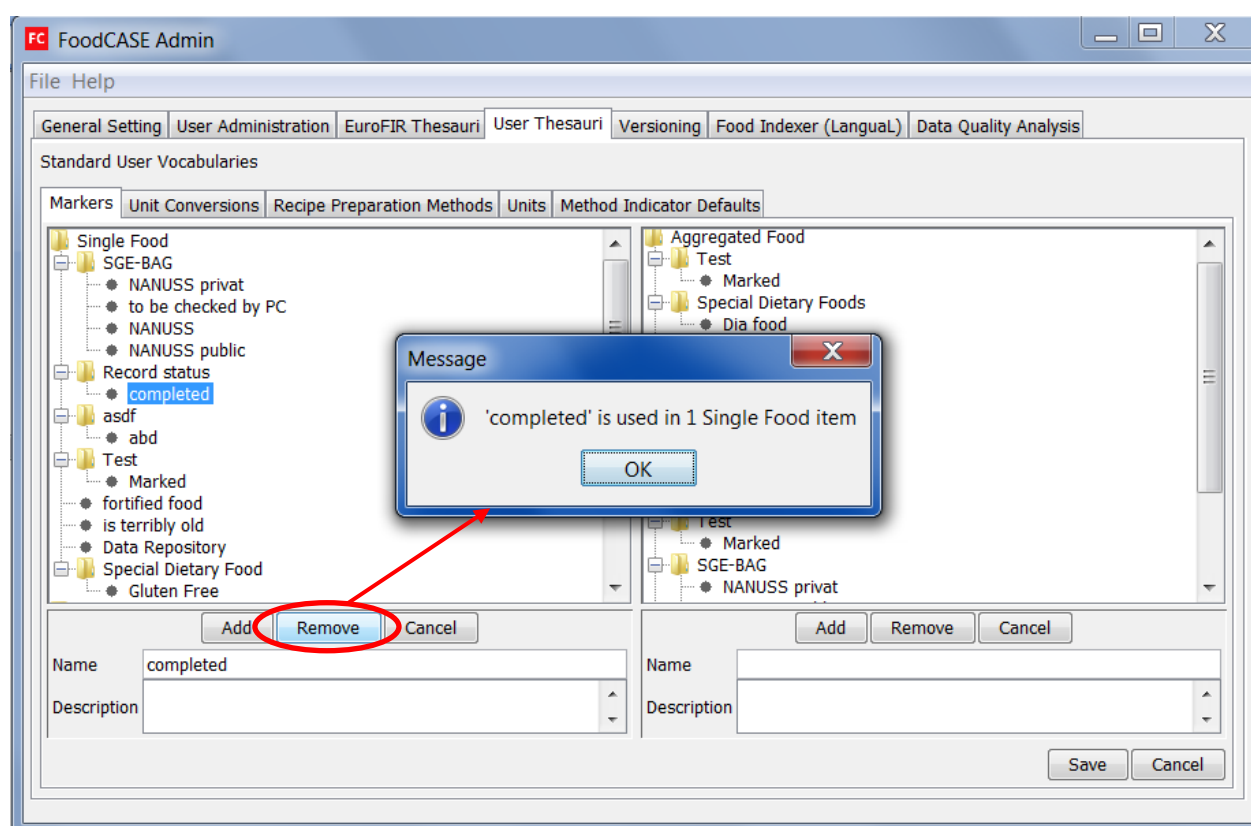


Figure 6.4.1.3

*Note: Any incidental or undesired deletion of markers can be abolished with **Cancel** buttons, however the **Cancel** button is not more active after the **Save** button was used.*

*There are **Cancel** buttons that are specific solely for single and aggregated sections and the **Cancel** button applicable for the whole tab (in the right lower corner of the tab).*

6.4.2 Unit Conversions

The Unit Conversions are useful for converting commonly applied household measures, like spoon, cup or egg into standard measure units. When defining a recipe compiler does not need to convert eggs into e.g. grams, just enters number of eggs and the application converts it into standard measure unit, by using specific conversion factor defined by compiler.

6.4.2.1 Defining New Unit Conversion

Before a unit conversion is defined, user must add a source unit into the Units tab in the User Thesauri register (for more details and procedure see chapter 6.4.4 Units).

Procedure

1. Go to the User Thesauri register and select the Unit Conversions tab (Figure 6.4.2.1-1)
2. Click the **New** button to add a new row in the tab (Figure 6.4.2.1-2)
3. Select source and target units from the drop down lists and define conversion multiplier between these units at the bottom of the window
4. Click the **Save** button to store the new conversion (Compiler Client module must be restarted to update units conversion) (Figure 6.4.2.1-3)

Note: Conversions must be defined carefully, in order they work properly (e.g. spoon converted into grams is not a precise conversion, because foods have different density and spoon different size, more detailed specification is e.g. teaspoon of honey, tablespoon of flour).

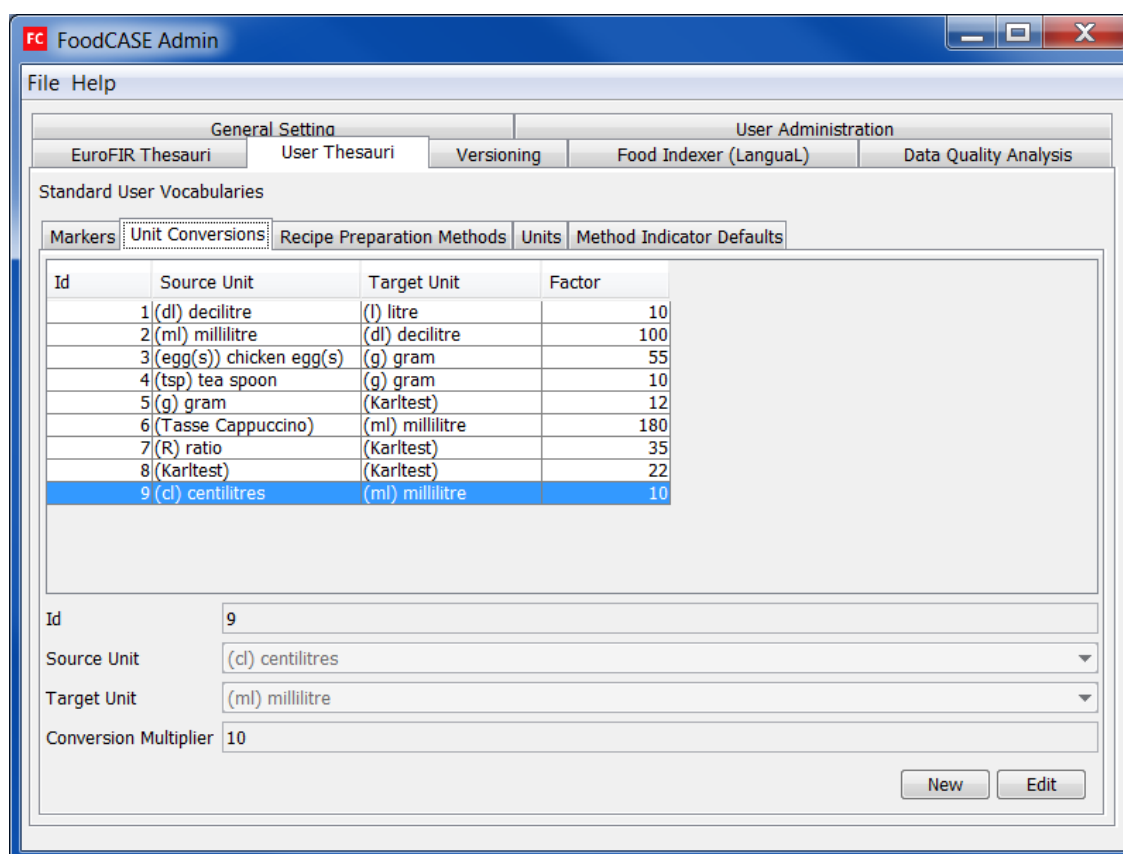


Figure 6.4.2.1-1

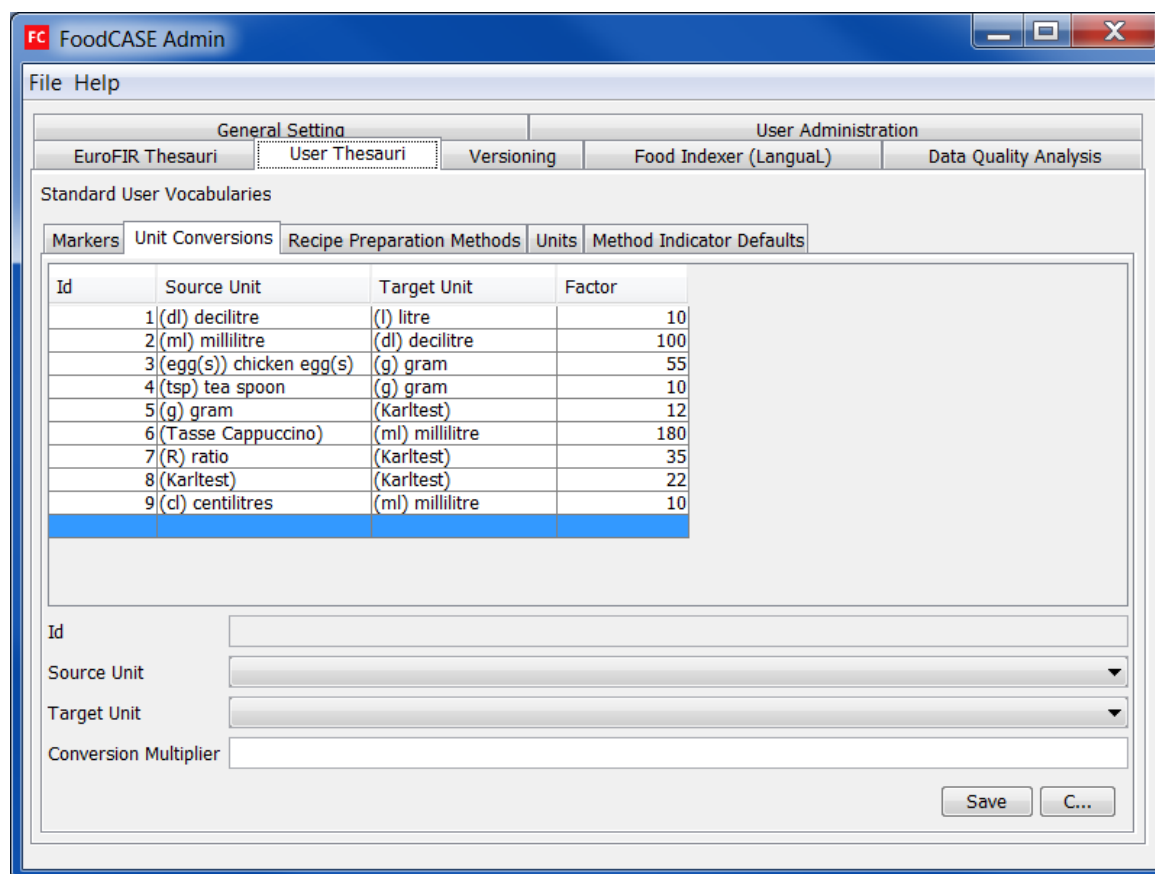


Figure 6.4.2.1-2

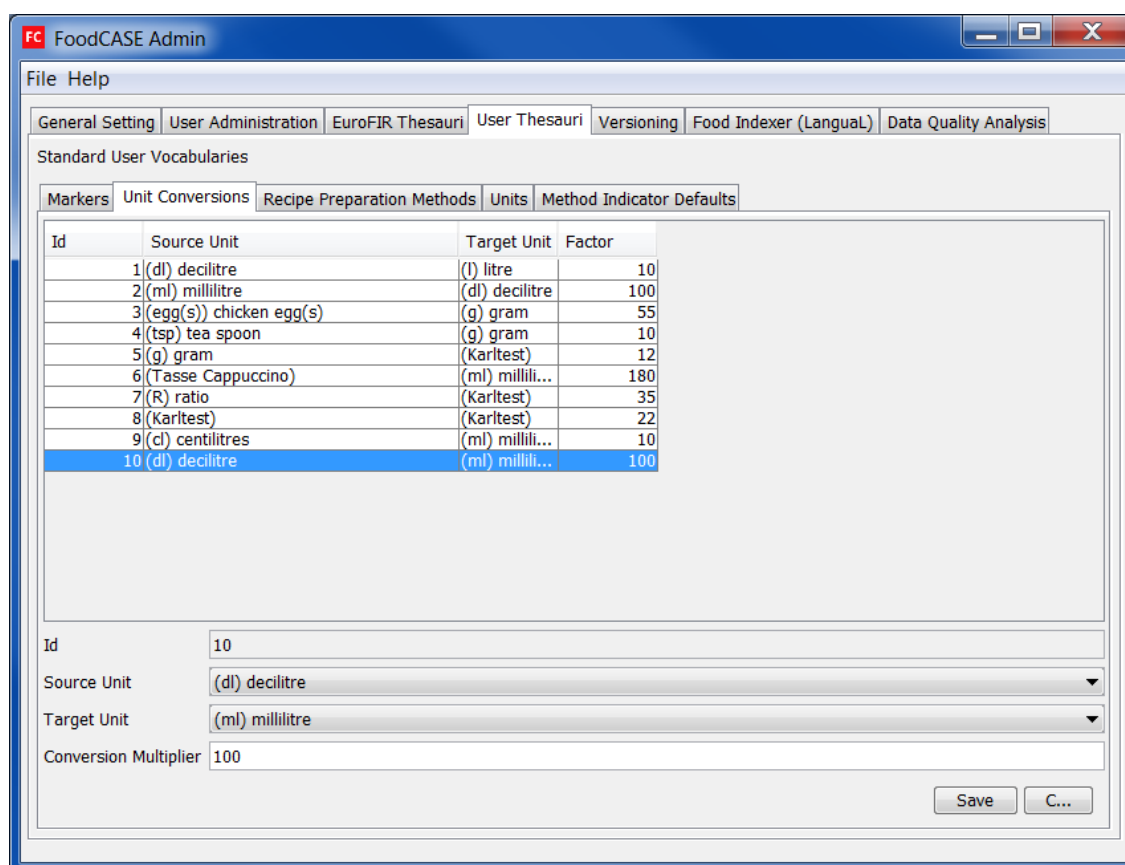


Figure 6.4.2.1-3

6.4.2.2 Updating Unit Conversion

1. Go to the User Thesauri register and select the Unit Conversions tab (Figure 6.4.2.2-1)
2. Left click on an item and click the **Edit** button to activate the item for modification
3. Change source and/or target units available in the drop down lists and/or define conversion multiplier between these units (Figure 6.4.2.2-2)
4. Click the **Save** button to store updated information (Compiler Client module must be restarted to update units conversion) (Figure 6.4.2.2-3)

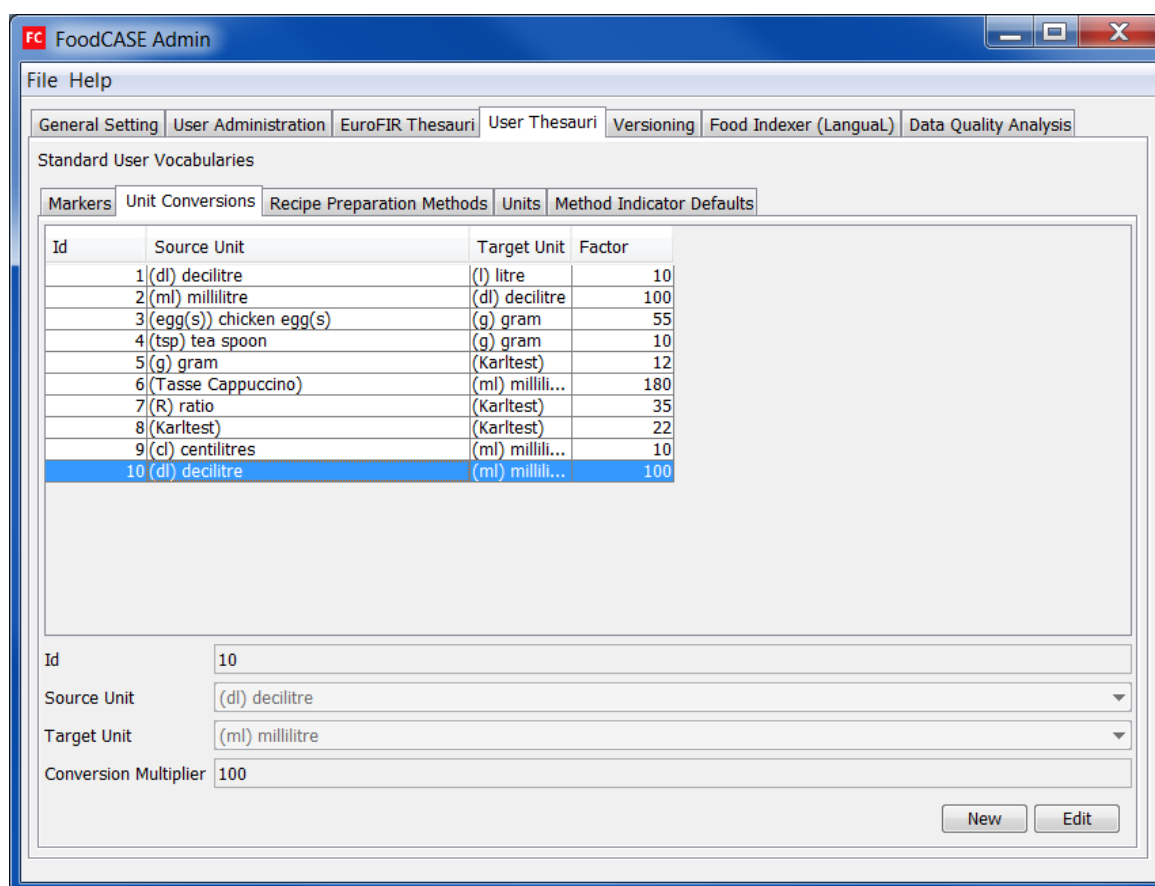


Figure 6.4.2.2-1

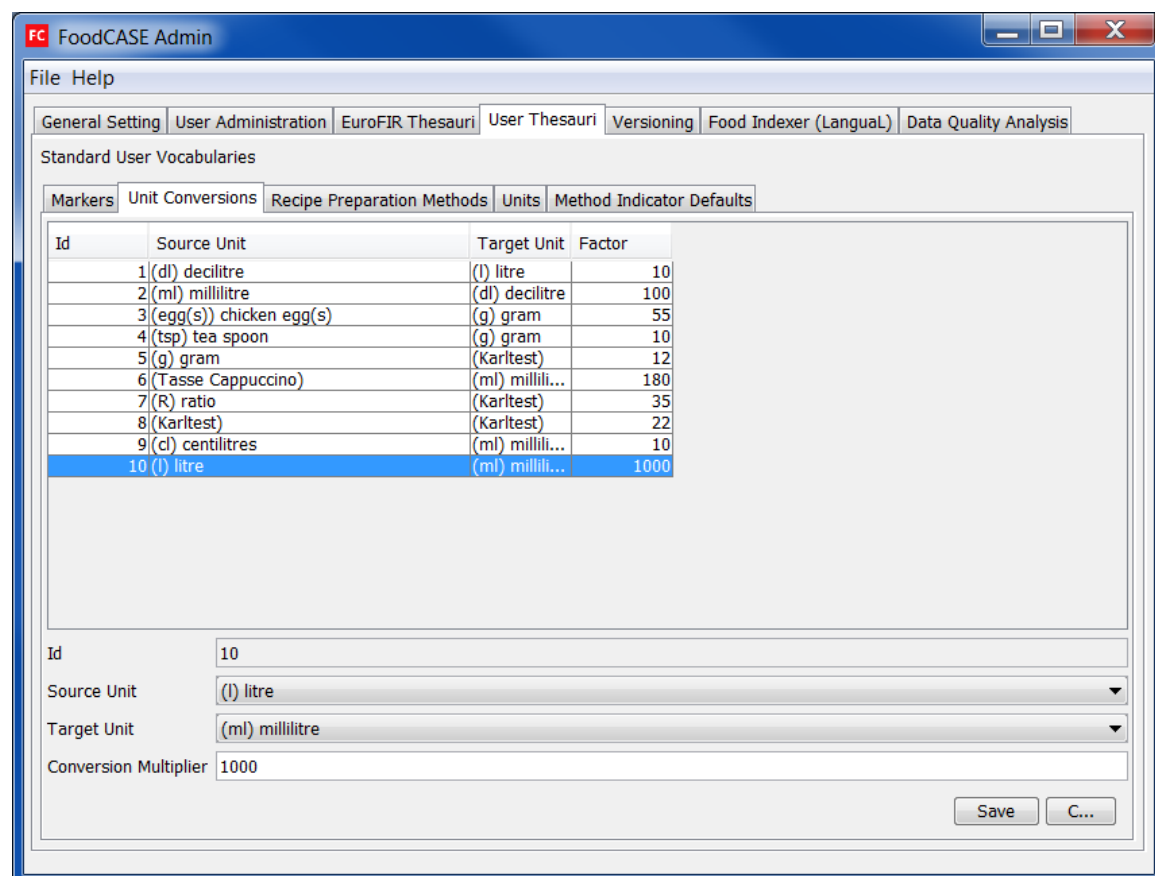


Figure 6.4.2.2-2

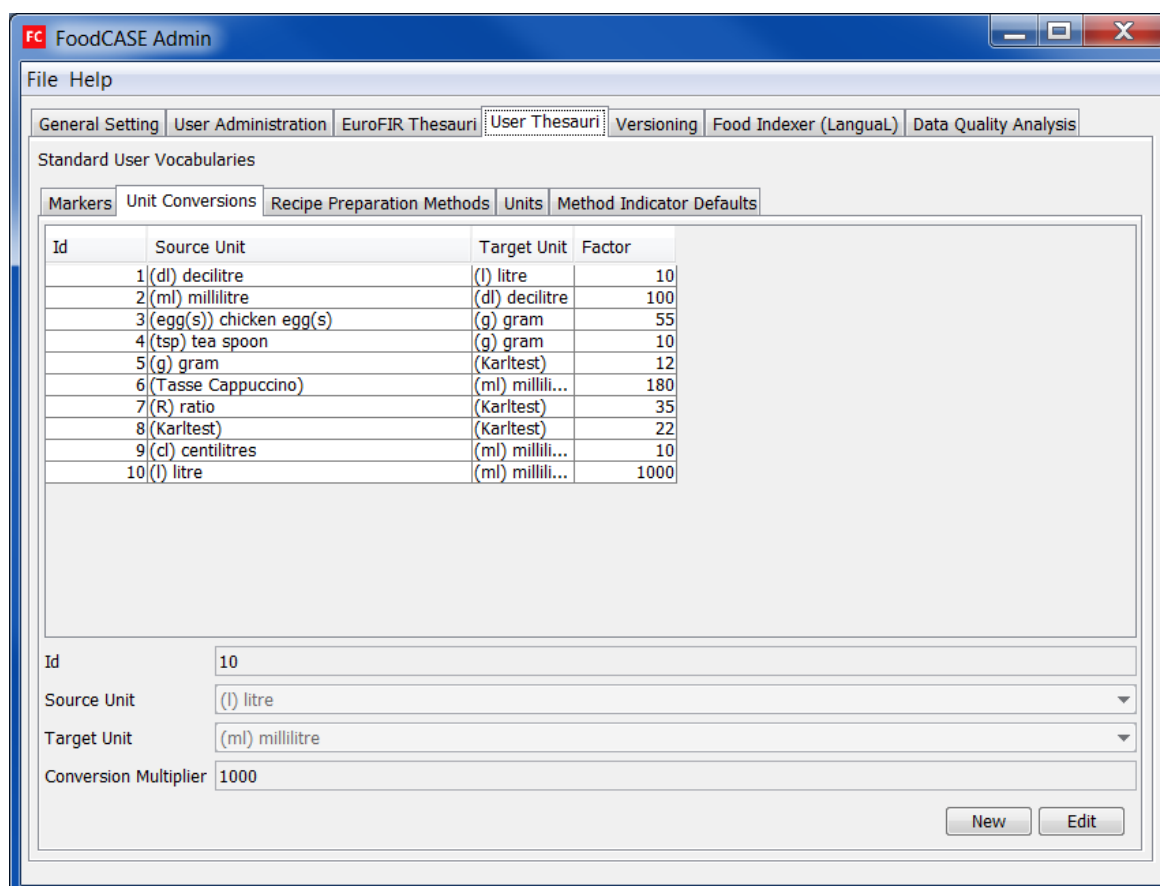


Figure 6.4.2.2-3

6.4.3 Recipe Preparation Methods

Recipe Preparation Methods tab (Figure 6.4.3) includes list of cooking methods that can be applied for recipe calculation in Compiler Client.

Here, in Administration Tool user can modify cooking methods. In addition to standardized EuroFIR methods, which are based on facet G in LanguaL, user, can add own cooking methods and its description.

Cooking methods are connected with retention factors and thus when a method is selected; particular retention factors are applied for component values of ingredients during recipe calculation.

Note: Each food must be correctly classified in the Aggregated food detail window before it is selected for recipe calculation because retention factors are dependent on the cooking method and on the EuroFIR food classification.

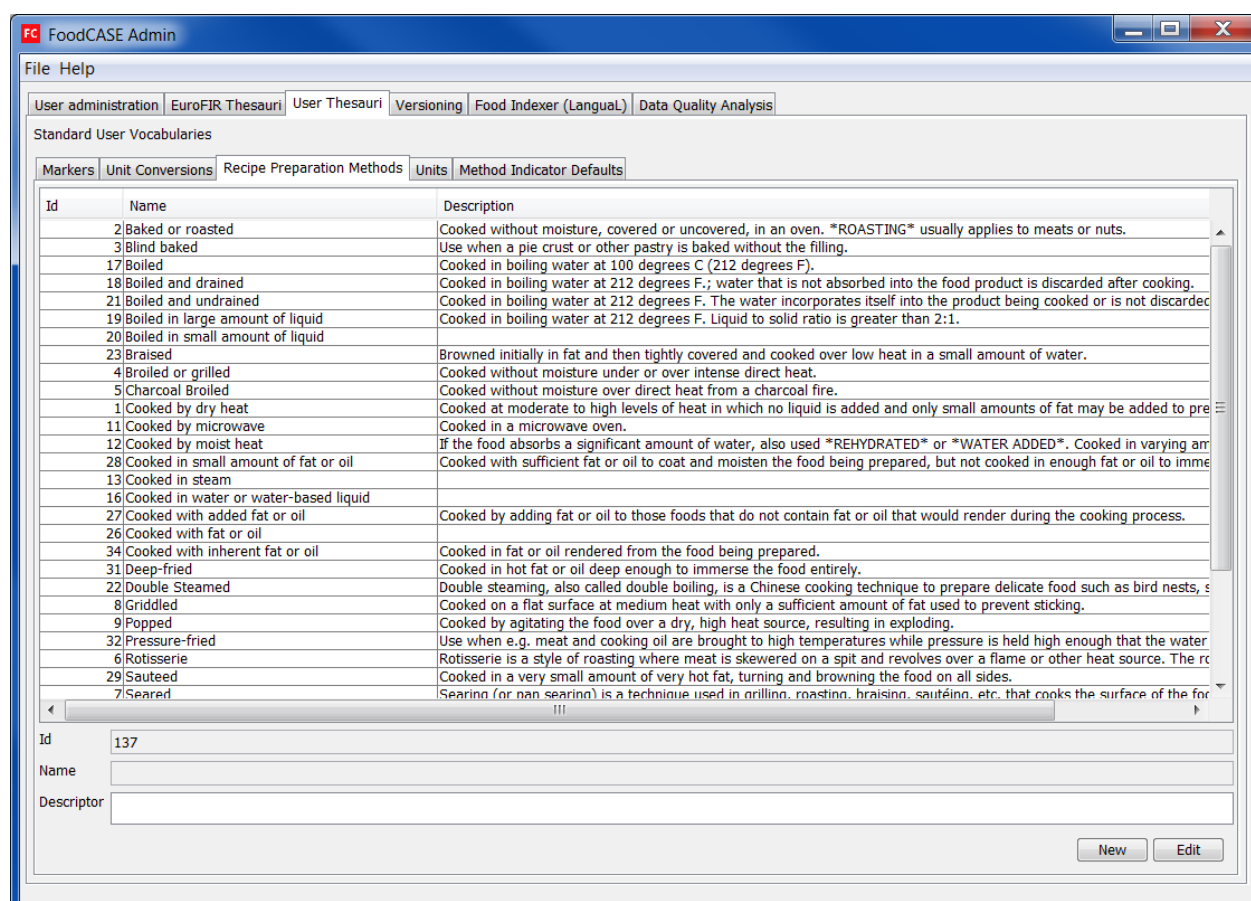


Figure 6.4.3

6.4.3.1 Defining New Cooking Method

1. Go to the User Thesauri register and select the Recipe Preparation Methods tab (Figure 6.4.3)
2. Click the **New** button to add a new row in the tab (Figure 6.4.3)
3. Fill in name and description of a cooking method
4. Click the **Save** button to save the new cooking method (Compiler Client module must be restarted to update list of cooking methods)

6.4.3.2 Updating Cooking Method

1. Go to the User Thesauri register and select the Recipe Preparation Methods tab (Figure 6.4.3)
2. Left click on an item and click the **Edit** button to activate the item for modification
3. Change the cooking method (Figure 6.4.3.2)
4. Click the **Save** button to save the change on the cooking method (Compiler Client module must be restarted to update list of cooking methods)

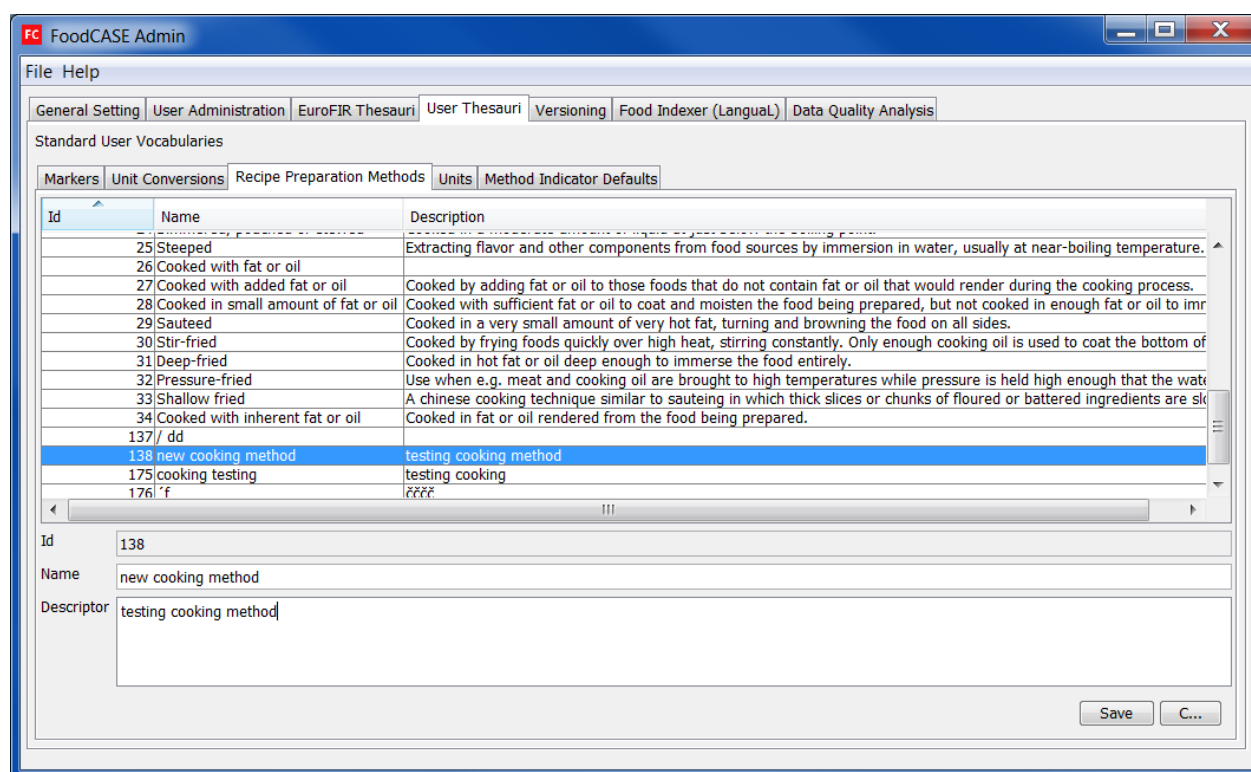


Figure 6.4.3.2

6.4.4 Units

This tab is used for defining own measure units. It can be either rare measure unit (e.g. centilitres) or household measure (e.g. spoon, cup of tea) (Figure 6.4.4). Subsequently one can use Unit Conversions tab to define conversion factor between specific unit and EuroFIR standardized measure units (see chapter 6.4.2 *Unit Conversions*).

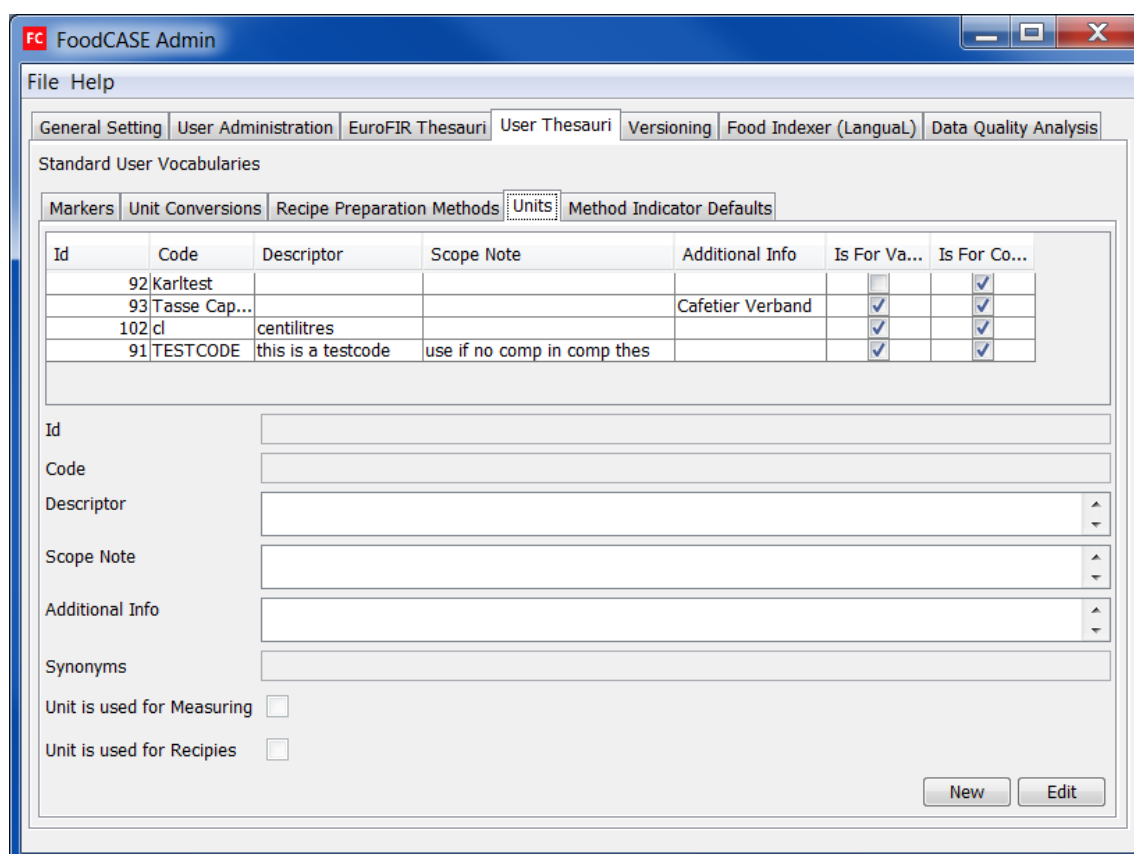


Figure 6.4.4

6.4.4.1 Defining New Unit

1. Go to the User Thesauri register and select the Unit tab (Figure 6.4.4)
2. Click the **New** button to add a new row in the tab (Figure 6.4.4.1-1)
3. Define new unit and specify for what purpose it will be applied (for value and/or for cooking) (Figure 6.4.4.1-2)
4. Click the **Save** button to save the new unit (Compiler Client must be restarted to update list of units) (Figure 6.4.4.1-3)

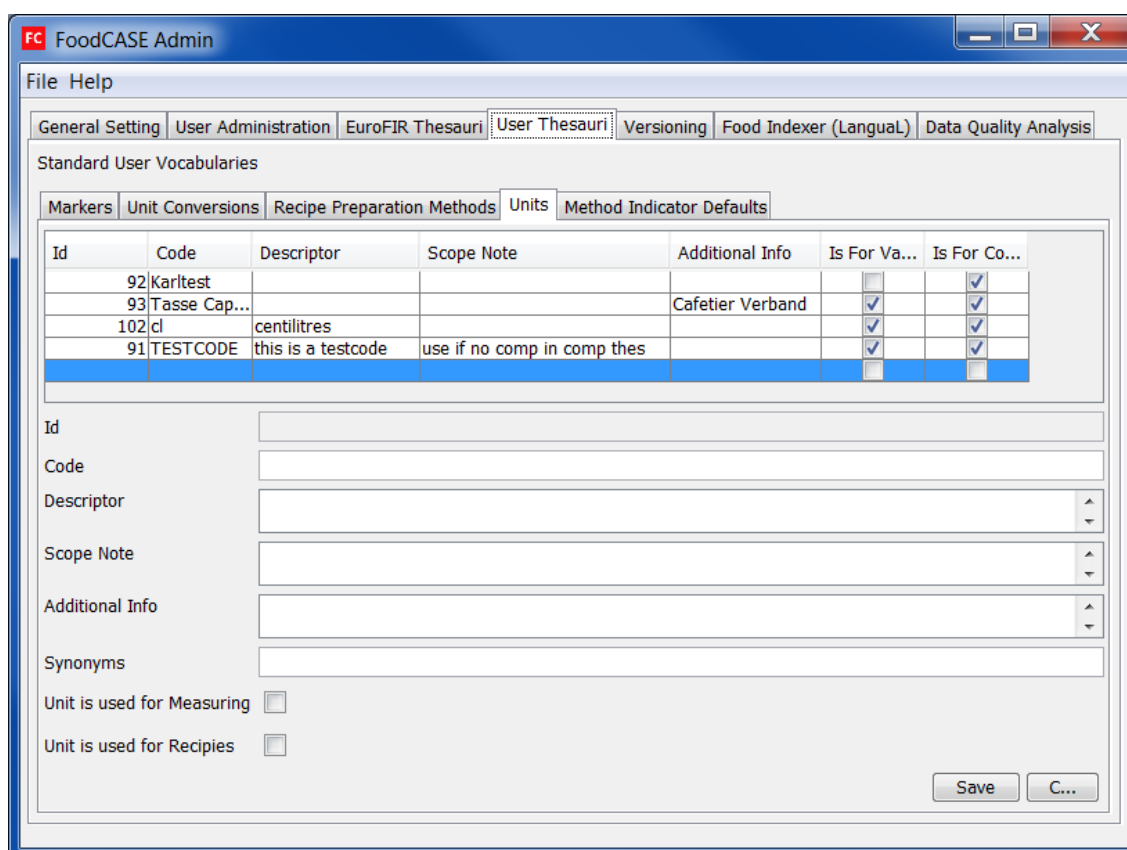


Figure 6.4.4.1-1

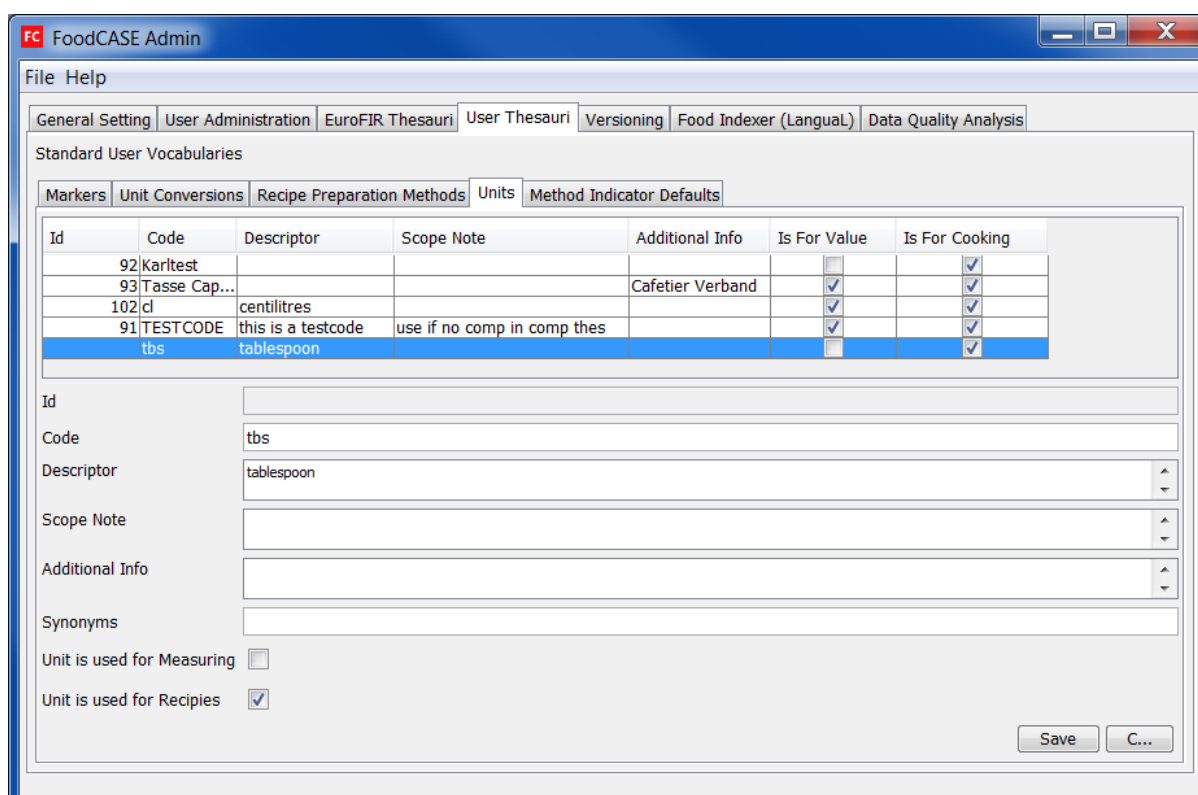


Figure 6.4.4.1-2

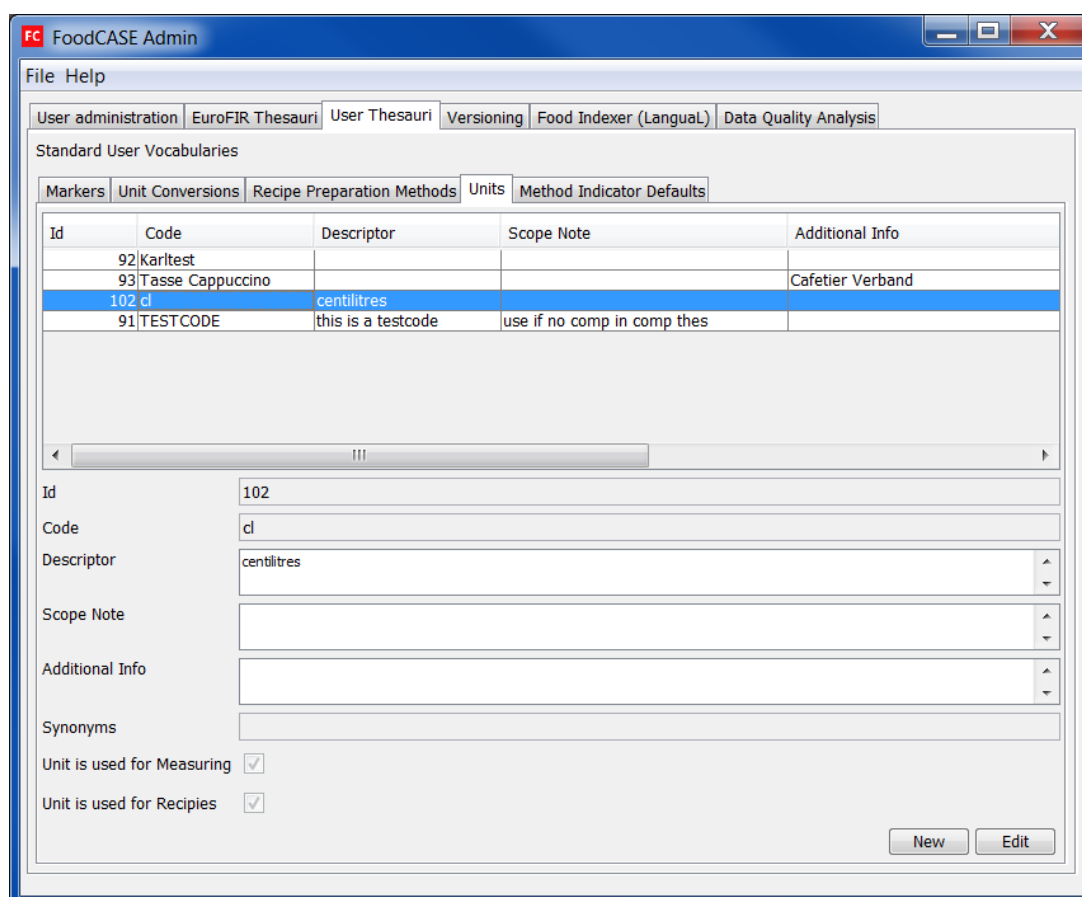


Figure 6.4.4.1-3

6.4.4.2 Updating Unit

1. Go to the User Thesauri register and select the Units tab (Figure 6.4.4)
2. Left click on an item and click the **Edit** button to activate the item for modification
3. Change the unit (Figure 6.4.4.2-1)
4. Click the **Save** button to store the change (Compiler Client must be restarted to update list of units) (Figure 6.4.4.2-2)

FoodCASE Admin

File Help

General Setting User Administration EuroFIR Thesauri **User Thesauri** Versioning Food Indexer (LanguaL) Data Quality Analysis

Standard User Vocabularies

Markers Unit Conversions Recipe Preparation Methods **Units** Method Indicator Defaults

Id	Code	Descriptor	Scope Note	Additional Info	Is For Value	Is For Cooking
92	Karitest				<input type="checkbox"/>	<input checked="" type="checkbox"/>
93	Tasse Cap...			Cafetier Verband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
102	cl	centilitres			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
134	tbs	tablespoon			<input type="checkbox"/>	<input checked="" type="checkbox"/>
91	TESTCODE	this is a testcode	use if no comp in comp thes		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Id: 102

Code: cl

Descriptor: centilitres

Scope Note:

Additional Info:

Synonyms:

Unit is used for Measuring: ☒

Unit is used for Recipies: ☒

Save C...

Figure 6.4.4.2-1

FoodCASE Admin

File Help

General Setting User Administration EuroFIR Thesauri **User Thesauri** Versioning Food Indexer (LanguaL) Data Quality Analysis

Standard User Vocabularies

Markers Unit Conversions Recipe Preparation Methods **Units** Method Indicator Defaults

Id	Code	Descriptor	Scope Note	Additional Info	Is For Value	Is For Cooking
92	Karitest				<input type="checkbox"/>	<input checked="" type="checkbox"/>
93	Tasse Cap...			Cafetier Verband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
102	dl	deciliters			<input type="checkbox"/>	<input checked="" type="checkbox"/>
134	tbs	tablespoon			<input type="checkbox"/>	<input checked="" type="checkbox"/>
91	TESTCODE	this is a testcode	use if no comp in comp thes		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Id: 102

Code: dl

Descriptor: deciliters

Scope Note:

Additional Info:

Synonyms:

Unit is used for Measuring: ☐

Unit is used for Recipies: ☒

Save C...

Figure 6.4.4.2-2

6.4.5 Method Indicator Defaults

For some calculated components, there exist two or more calculating methods in EuroFIR Method Indicator Thesaurus. In this tab, user can set default calculating method for calculated components (Figure 6.4.5) and then preferred method is applied for calculation in Compiler Client and user does not have to select it individually. Even though user set a default method, still there will be possibility to change to another method indicator in the Compiler Client if needed.

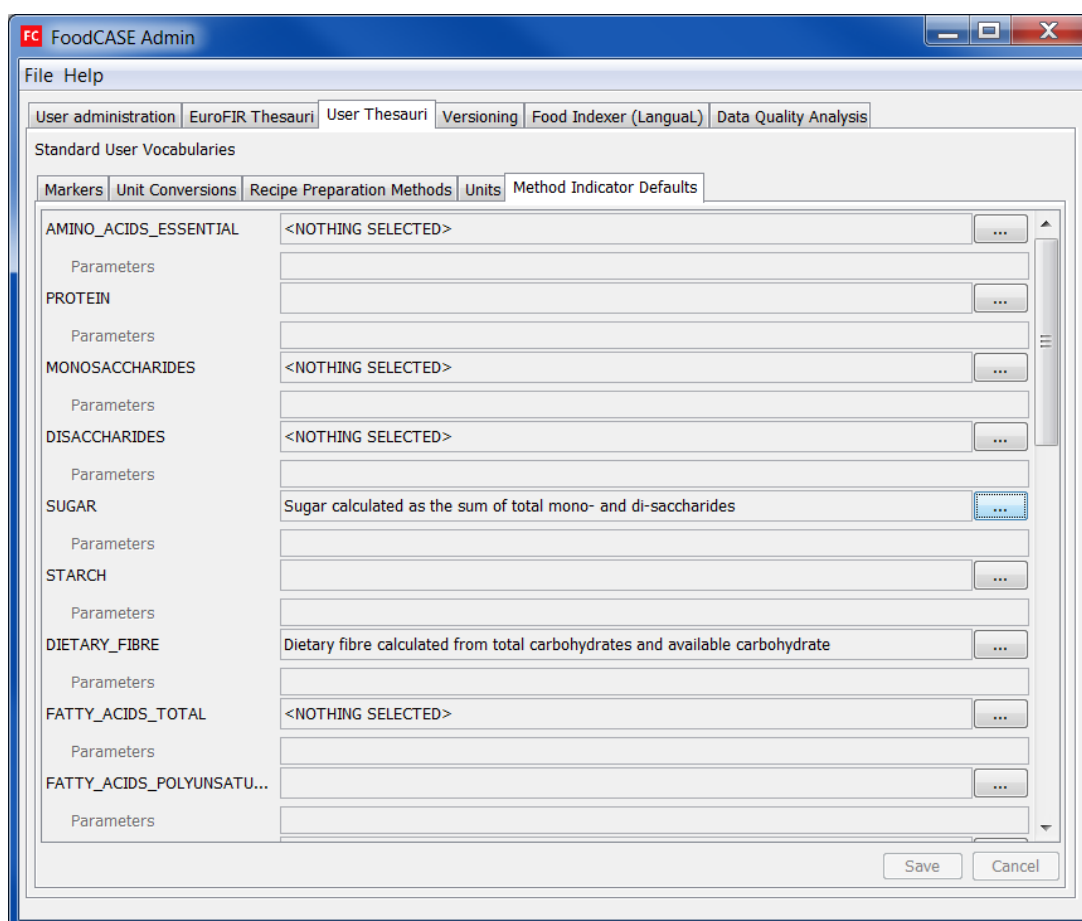


Figure 6.4.5: Comment: The available buttons are not active.

6.4.6 Own Coding System

In the Compiler Client application, there is actually incorporated the Swiss food group categorisation. However, this categorisation, claimed as a user categorisation, is without any possible way for modification. Here, in Admin Tool could be added another tab for “Own food group coding system”, e.g. for national standard, that could be created through Administration Tool and applied in Compiler Client as a local-specific standard.

6.5 Versioning

The register Versioning gives an overview of archived database versions of aggregated FoodCASE database. The head database version is the one on which compilers always work. All others are snapshots of the head version created at a specific time (Figure 6.5).

If the head version is marked for public (e.g. for a website), then all changes will be published immediately whenever something in the database has changed.

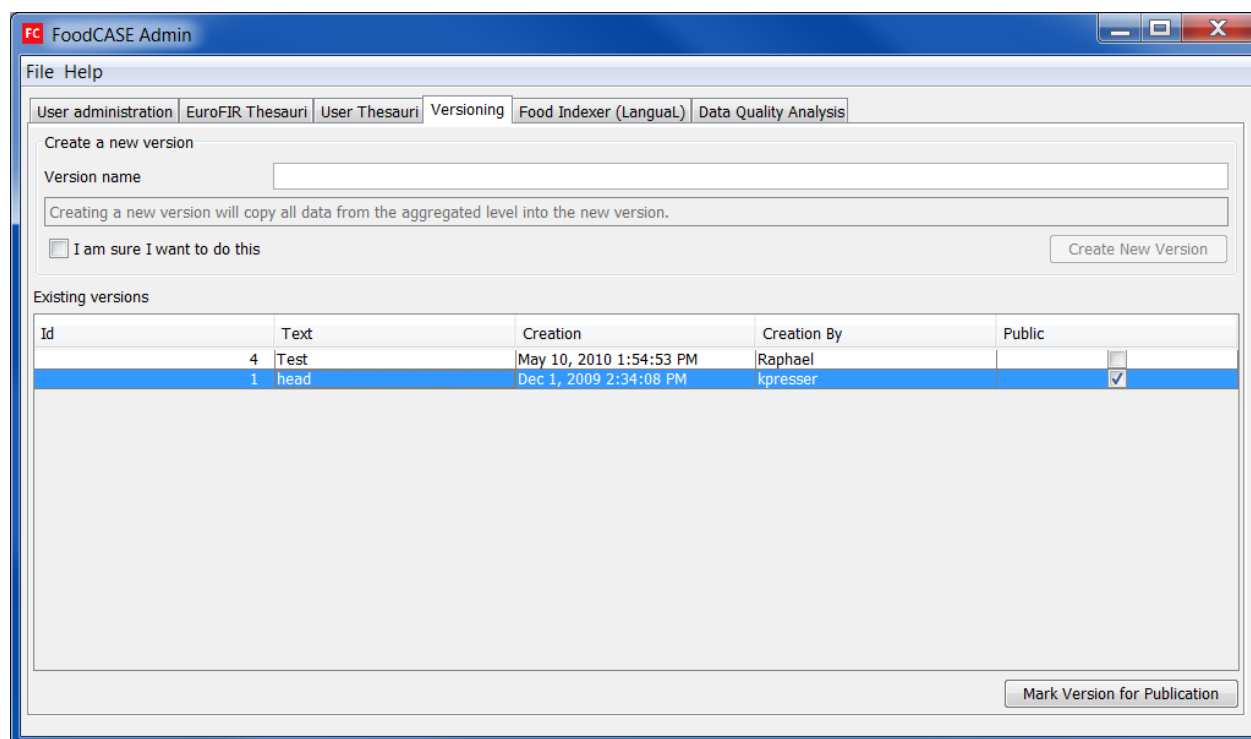


Figure 6.5: Here two versions of the database are available - the “head” version is marked for publishing

6.5.1 Creating New Database Version

New database version is a snapshot of the head version at a specific time. The new version is stored in the archive and is available only for reading. Compilers continue working on the head version.

Procedure

1. Go to the Versioning register
2. Tick the check box *I am sure I want to do this* to confirm that and thus confirm that a new version wants to be created (Figure 6.5.1-1)
3. Enter name of a new version into the text field *Version name*
4. Click the **Create New Version** button and new version is created after a while (Figure 6.5.1-2). The newly created version can be seen in drop down window of the Version register in FoodCASE Compiler Client

Note: Name of the version in the field “Text” can include own numbering, naming and dates.

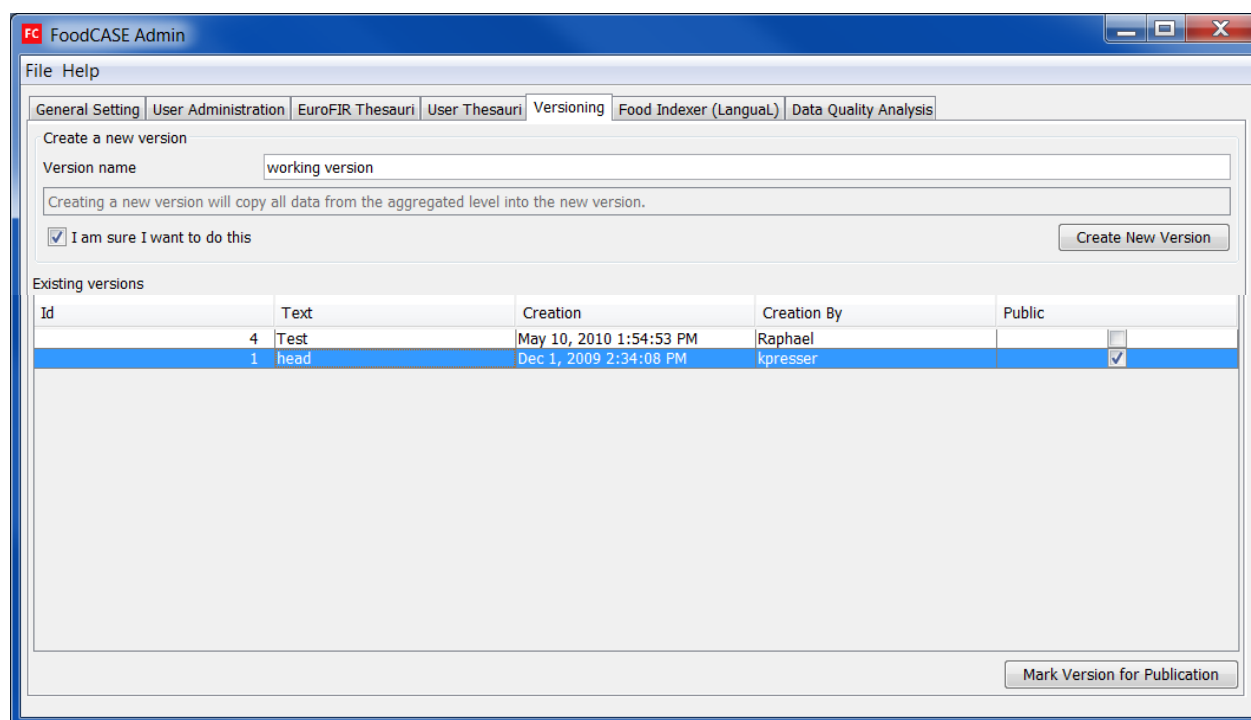


Figure 6.5.1-1

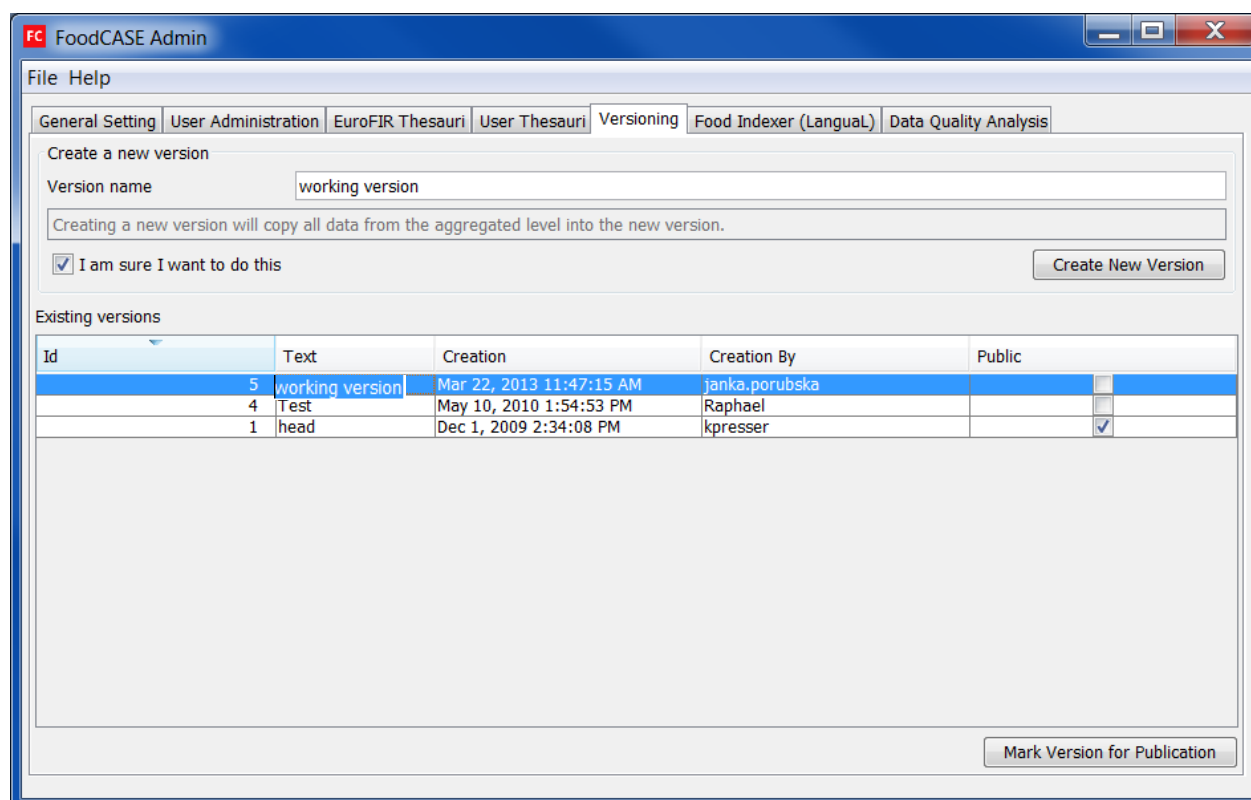


Figure 6.5.1-2

6.5.2 Numbering the Database Versions

Database numbers of versions are assigned automatically by software.

Following principle is applied for numbering different database versions:

- 1 - Current version,
- 2 - First archived version, which is oldest version,
- 3 – Second archived version, which is the second oldest version
- ...
- n – The latest archived version available

Anytime a new version of the database is created in the Versioning register, it is identified with number following chronologically (n+1).

6.5.3 Marking Version for Publishing

Any version on the list can be marked for publication by setting cursor on a version and click the **Mark Version for Publication** button (or by putting a tick in the check box). This version is marked as the public version. This mark can for instance, be used to show only this data on a website.

6.6 Data Quality Analysis

This register is used for setting qualitative parameters and frequency of data quality assessment. Assessment can be run only in FoodCASE Administration Tool over the current version. There are six tabs within this register.

6.6.1 General Principles

For quality assessment purposes there are applied various principles in FoodCASE that are on the cutting research edge in the area of data quality. As data quality is quite complex topic, FoodCASE offers maximum flexibility for the definition of quality measurement. In order, it is necessary that to use SQL-like syntax to define some of the measurement parameters. These functionalities are described in the following.

6.6.2 Quality Entities

This is a list of standard entities in FoodCASE (Figure 6.6.2-1). Quality entities are used to define on what business object is quality assessed. The list of quality entities is complete so that no entities must be added. Anyway, to modify a quality entity, it is helpful to understand the database structure of FoodCASE.

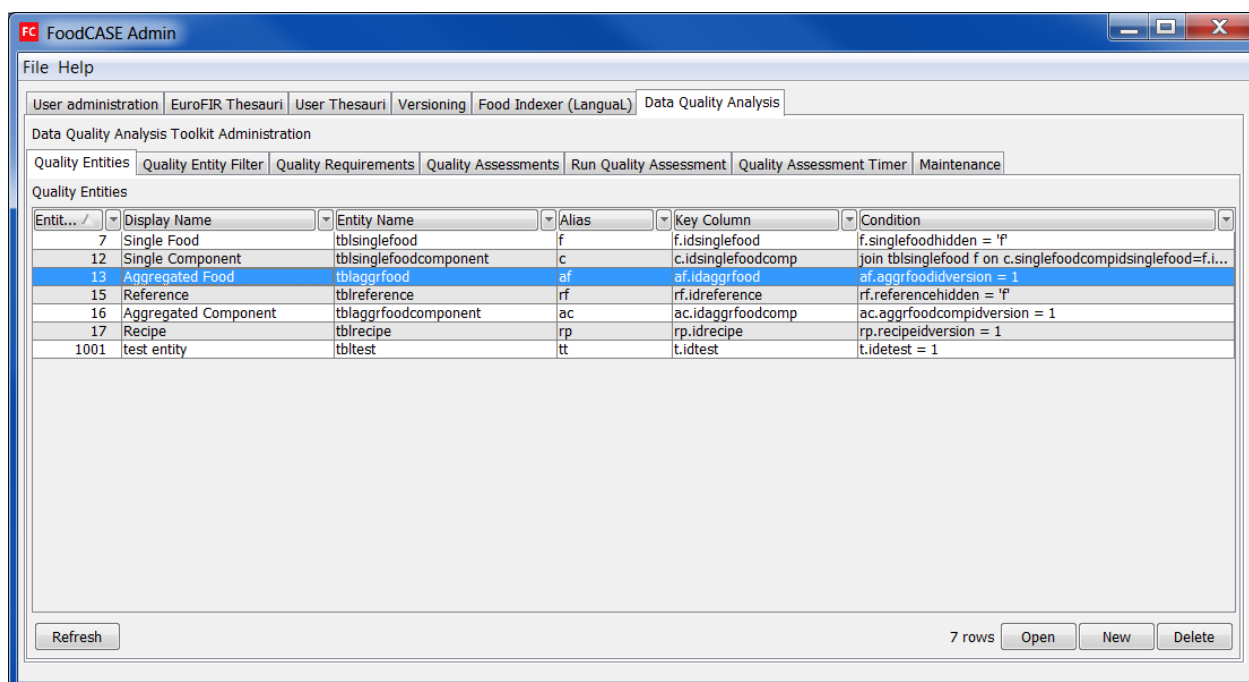


Figure 6.6.2-1: Based on defined condition quality assessment is conducted on the latest (actual) database at aggregated food, aggregated component, recipe level and at the “test entity”. Quality assessment is not conducted on the references and on the single database level

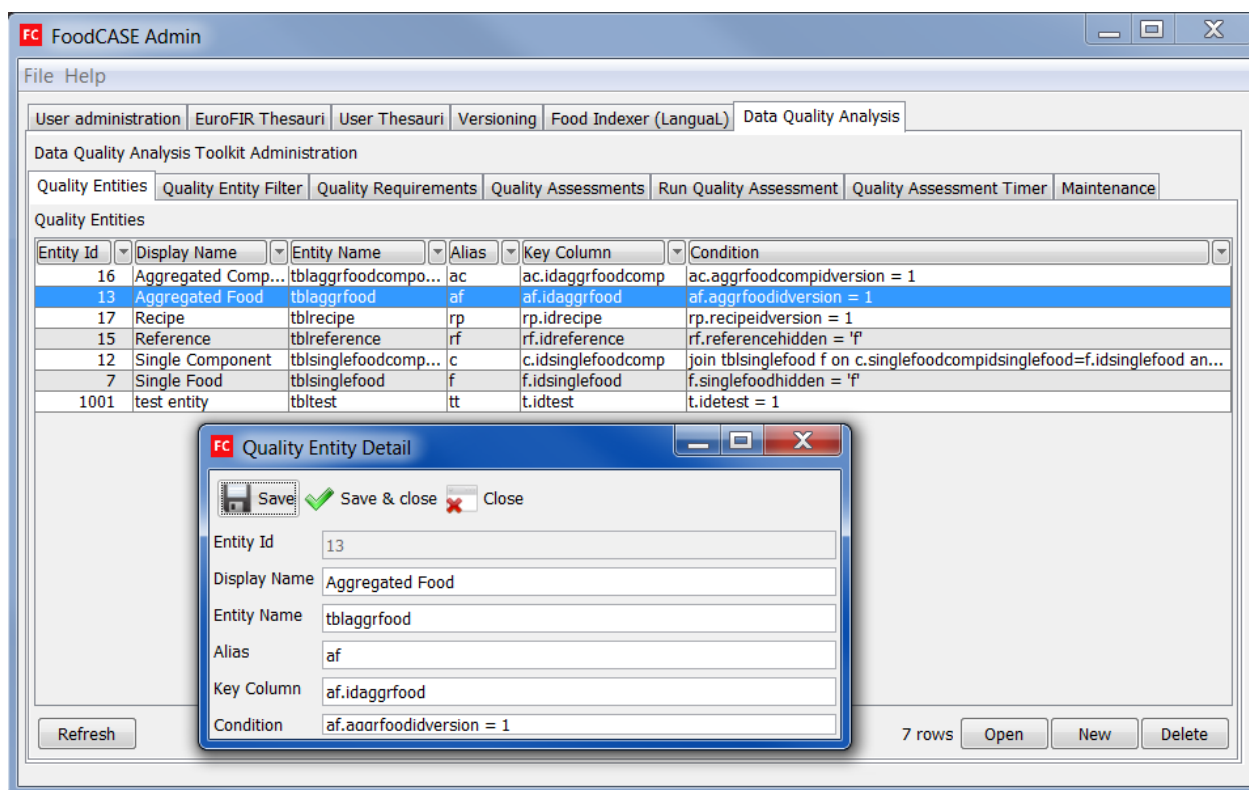


Figure 6.6.2-2: Entities can be modified by use of the **Open**, **New** and **Delete** buttons

6.6.3 Quality Entity Filter

It is a table for defining terms for filtering data according to various descriptors when setting criteria for quality assessment analysis. For example, aggregated components can be filtered based on the Method Indicator thesaurus (Figure 6.6.3-1). These filter parameters can be subsequently seen in Data Quality Analysis Toolkit which is accessible via Compiler Client (Figure 6.6.3-2). Standard buttons **Open**, **New**, **Delete** and **Refresh** are used for setting filter parameters to an entity.

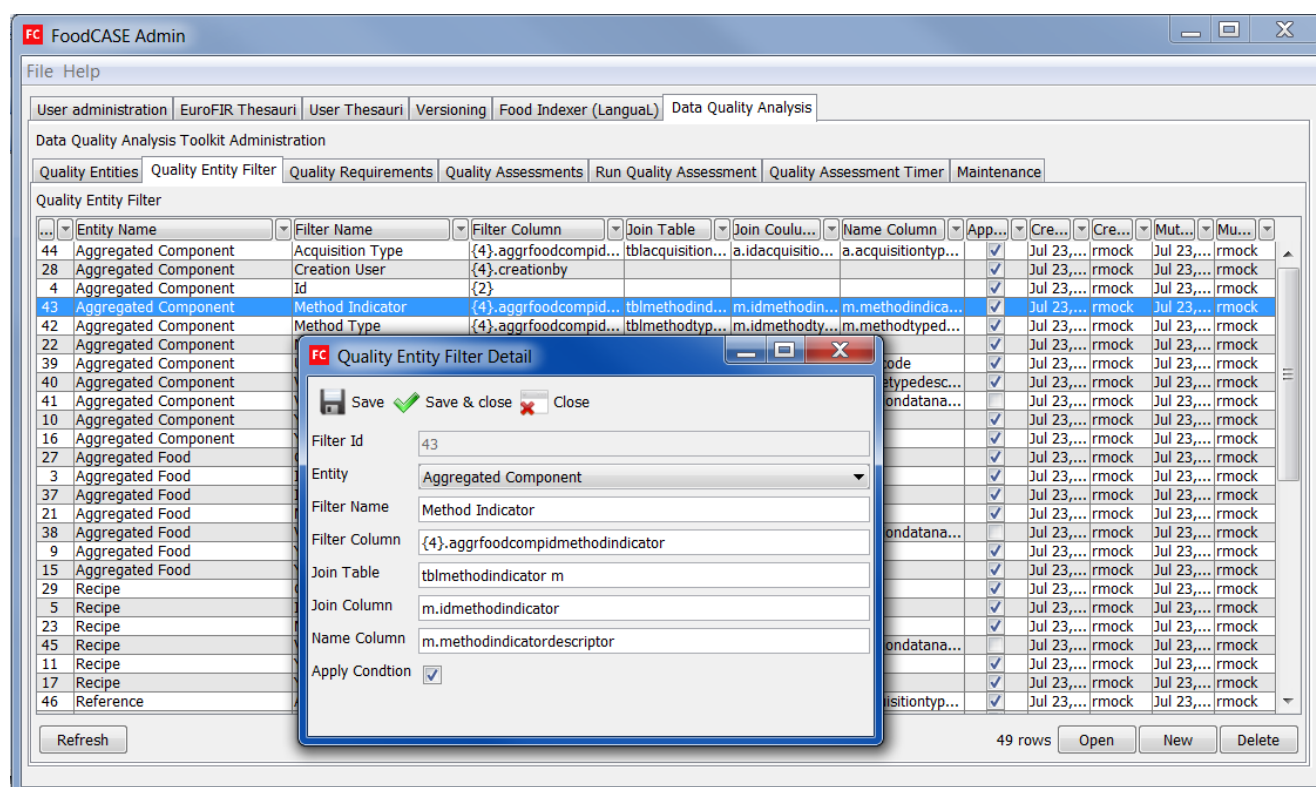


Figure 6.6.3-1

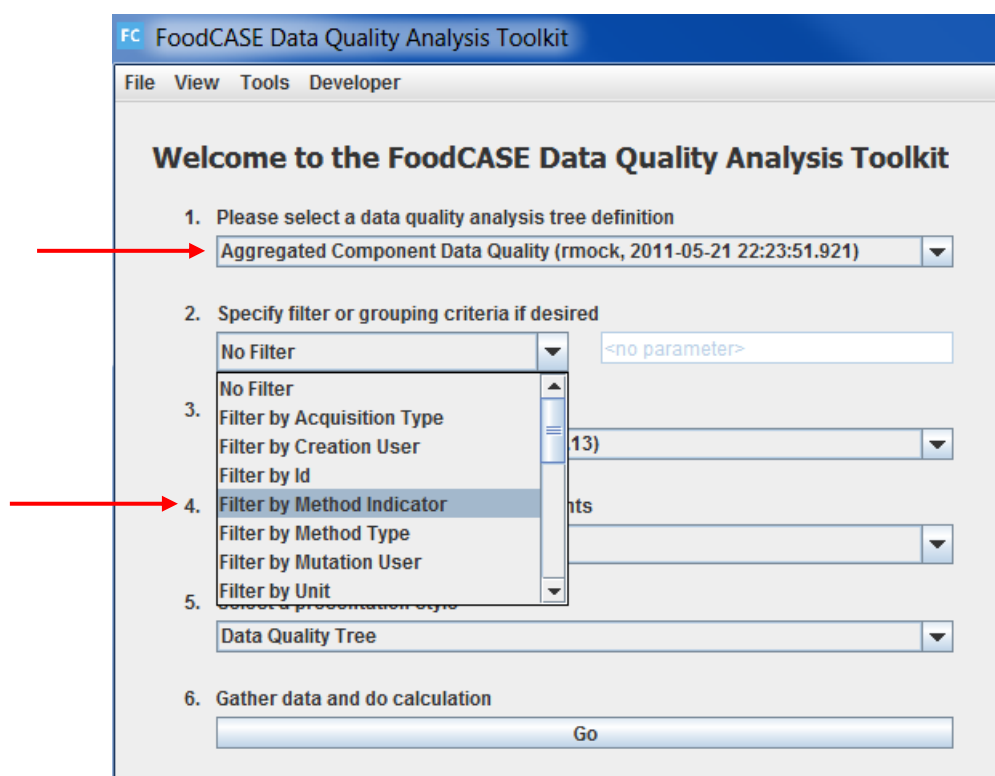


Figure 6.6.3-2

Quality Entity Filter Details

When setting quality entity filter (Figure 6.6.3-1), all information that can be defined in an SQL statement can be defined.

6.6.4 Quality Requirements

Here user defines measures for quality assessment. For instance, measure that check data consistency for sum of all components in food to give 100 (Figure 6.6.4-1 and 6.6.4-2). For adding, deleting and editing requirements use standard buttons **Open**, **New**, **Delete** and **Refresh**. However, the requirement is described by SQL language and that is why an IT specialist must specify it.

FoodCASE Admin

File Help

User administration EuroFIR Thesauri User Thesauri Versioning Food Indexer (Language) Data Quality Analysis

Data Quality Analysis Toolkit Administration

Quality Entities Quality Entity Filter Quality Requirements Quality Assessments Run Quality Assessment Quality Assessment Timer Maintenance

Quality Requirements

Requireme...	Entity	Name	Description	Creation	Creation ...	Mutation	Mutatio...
167	Aggregated Co...	VN: Standard deviation	Standard deviation is valid n...	Jun 13, 201...	rmock	Jun 24, 20...	rmock
168	Aggregated Co...	VN: Standard error	Standard error is valid numb...	Jun 13, 201...	rmock	Jul 16, 201...	rmock
1005	Aggregated Foo...	ENERC (kJ) does not match to th...	Rating is calculated as follow...	Mar 9, 201...	kpresser	Mar 9, 201...	kpresser
135	Aggregated Foo...	Every food must have at least 4 ...		Jun 13, 201...	rmock	Jul 22, 201...	rmock
172	Aggregated Foo...	Fill factor		Jun 15, 201...	rmock	Jun 24, 20...	rmock
136	Aggregated Foo...	For every food carbohydrate (CH...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
137	Aggregated Foo...	For every food energy must be p...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
138	Aggregated Foo...	For every food fat must be provi...		Jun 13, 201...	rmock	Jan 17, 20...	kpresser
139	Aggregated Foo...	For every food protein must be p...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
140	Aggregated Foo...	For homemade food recipe desc...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
171	Aggregated Foo...	If FAT = 0 or logical zero then al...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
141	Aggregated Foo...	Minimum length of single food n...	Food name must have at lea...	Jun 13, 201...	rmock	Jun 24, 20...	rmock
142	Aggregated Foo...	Mustfield English food name		Jun 13, 201...	rmock	Jun 24, 20...	rmock
143	Aggregated Foo...	Mustfield EuroFIR classification		Jun 13, 201...	rmock	Jun 24, 20...	rmock
144	Aggregated Foo...	Mustfield restaurant or homema...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
145	Aggregated Foo...	Mustfield retention factor classifi...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
146	Aggregated Foo...	Scientific name or brand name ...	if no brand name exists then ...	Jun 13, 201...	rmock	Jun 24, 20...	rmock
1000	Aggregated Foo...	Sum of all component amounts ...	Sum of all components that ...	Mar 8, 201...	kpresser	Jan 17, 20...	kpresser
1001	Aggregated Foo...	Sum of all component amounts ...	Sum of all components that ...	Mar 8, 201...	kpresser	Jan 17, 20...	kpresser
1002	Aggregated Foo...	Sum of all fatty acids should not ...	If the sum of all fatty acids (c...	Mar 8, 201...	kpresser	Jan 17, 20...	kpresser
1004	Aggregated Foo...	Sum of CHO and FIBT should not ...	If the sum of CHO and FIBT i...	Mar 8, 201...	kpresser	Jan 17, 20...	kpresser
1003	Aggregated Foo...	Sum of sugar[SUGAR] and starc...	If the sum of sugar and starc...	Mar 8, 201...	kpresser	Jan 17, 20...	kpresser
131	Aggregated Foo...	SY: Combination of language=e...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
132	Aggregated Foo...	SY: Combination of synonym ter...		Jun 13, 201...	rmock	Jun 24, 20...	rmock
133	Aggregated Foo...	SY: Mustfield synonym term		Jun 13, 201...	rmock	Jun 24, 20...	rmock

Refresh 162 rows Open New Delete

Figure 6.6.4-1

Quality Requirement Detail

Save Save & close Close

Requirement Id 1000

Entity Aggregated Food

Name Sum of all component amounts must be 100g

Description matrix unit = per 100g edible portion should sum to 100 grams. If the sum is exactly 100g, the rating is 1.0. If the sum is 99 grams or 101 grams, the rating is 0.99 and so on

Type Soft constraint

Assessment SQL

```

select (0), idaggrfood,
case when aggrfoodcompidmatrixunit <> 9 then 1.0
else
case when total <= 100 then total/100
when total > 100 and total <= 200 then (200-total)/100
else 0.0
end
end as val
from (
select (2), coalesce(sum(case when aggrfoodcompidunit = 8 then cast(aggrfoodcompelectedvalue as float)/1000 when aggrfoodcompidunit = 1 then cast(aggrfoodcompelectedvalue as float)/1000 when
from (1)
left join tblaggrfoodcomponent afc on (2) = afc.aggrfoodcompidaggrfood
left join tblcomponent c on afc.aggrfoodcompidcomponent = c.idcomponent and (idcomponent in (61,400,282,486,11,382,473, 478,479, 480, 475,476,477,455,422,372,31,296,386) or component
where (3)
group by (2), aggrfoodname, aggrfoodcompidmatrixunit
) as tbl

```

Variables {0} = <requirementId>; <assessmentId>; {1} = <entity> <alias>; {2} = <keycolumn>; {3} = <condition>; {4} = <alias>

Figure 6.6.4-2

Quality Requirement Details

When defining new measure for quality assessment (Figure 6.6.4-2), following information needs to be defined:

Entity – select it from the drop down window of the existing entities (entities can be modified in Quality Entities tab),

Name – enter name of measure,

Description – describe in details conditions of measure

Type – define if the requirement is a hard constraint, soft constraint or an indicator,

Assessment SQL – measurement of data quality requirement written in SQL-like manner.

6.6.5 Quality Assessment

Executed runs of quality assessment are listed here. The tab indicates who and when carried out the quality assessment (Figure 6.6.5-1). The name of the run can be modified using the **Open** button (Figure 6.6.5-2) or run can be deleted completely from the database by using the **Delete** button. Click on the **New** button redirects user to the Run Quality Assessment tab.

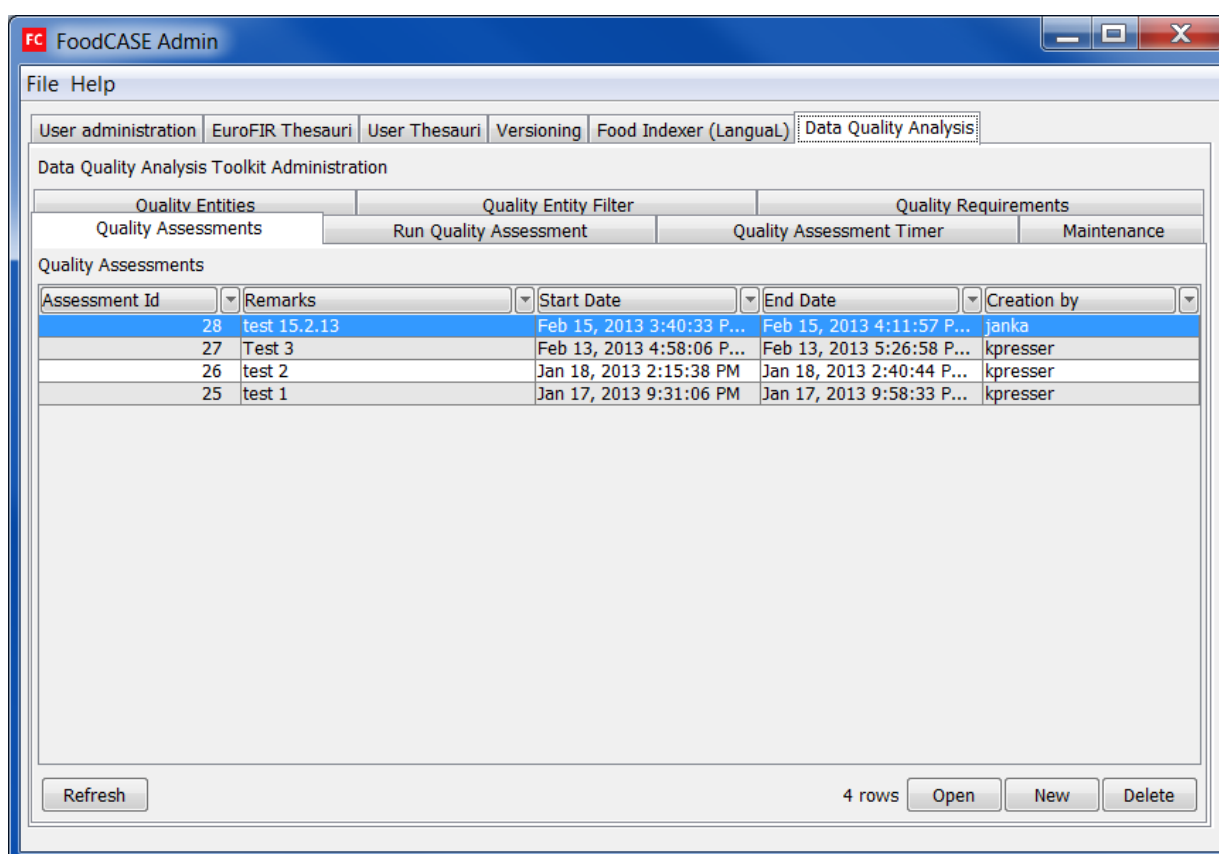


Figure 6.6.5-1

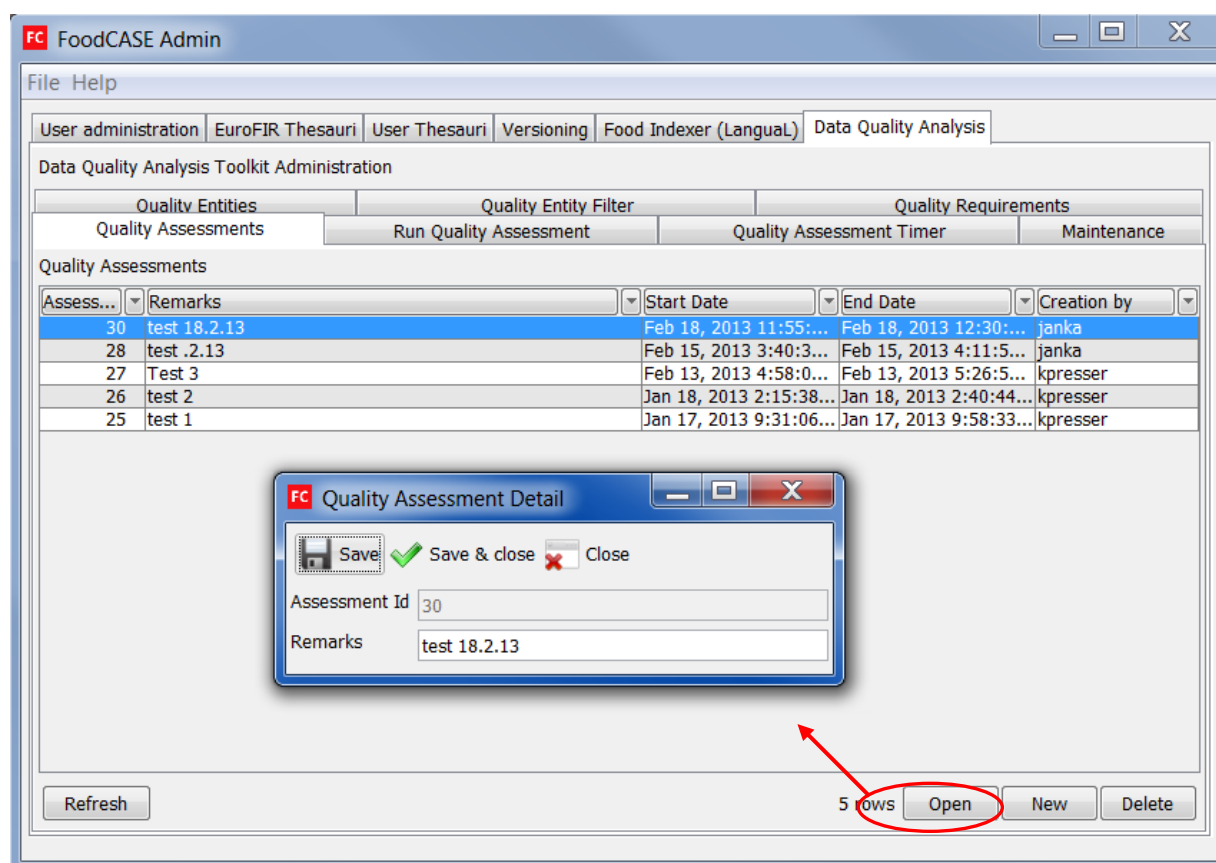


Figure 6.6.5-2

6.6.6 Run Quality Assessment

Here user can launch the quality assessment based on defined parameters.

The run takes quite long time and length depends on size of database and number of quality requirements set for data.

The progress of the analysis is indicated by the green line and by per cent of achieved checks. At the same time, particular requirements with number of hits on how many records met the requirement are displaying continually (Figure 6.6.6-2).

There is no special button to stop running of the quality assessment, however, by closing the application the analysis stops (Figure 6.6.6-4).

Before quality assessment is launched, user should define conditions under which analysis will run (e.g. entities, database versions, quality conditions, etc.; see chap. 6.6.1 - 6.6.5).

Procedure

1. Go to the Run Quality Assessment tab and click the **Run Quality Assessment** button
2. Enter a name of the run and click the **OK** button (Figure 6.6.6-1)
3. The application starts analysis (which might take several minutes or even half an hour) (Figure 6.6.6-2)

4. As soon as the assessment is done (Figure 6.6.6-3), user can see the results in the Data Quality Analysis Toolkit in the Compiler Client of FoodCASE (*Menu File → View → Data Quality Analysis (new) → Select a quality assessment*) and analyse them

Note: For a large database, it might be best to start a quality assessment at the end of the day and let it run over night.

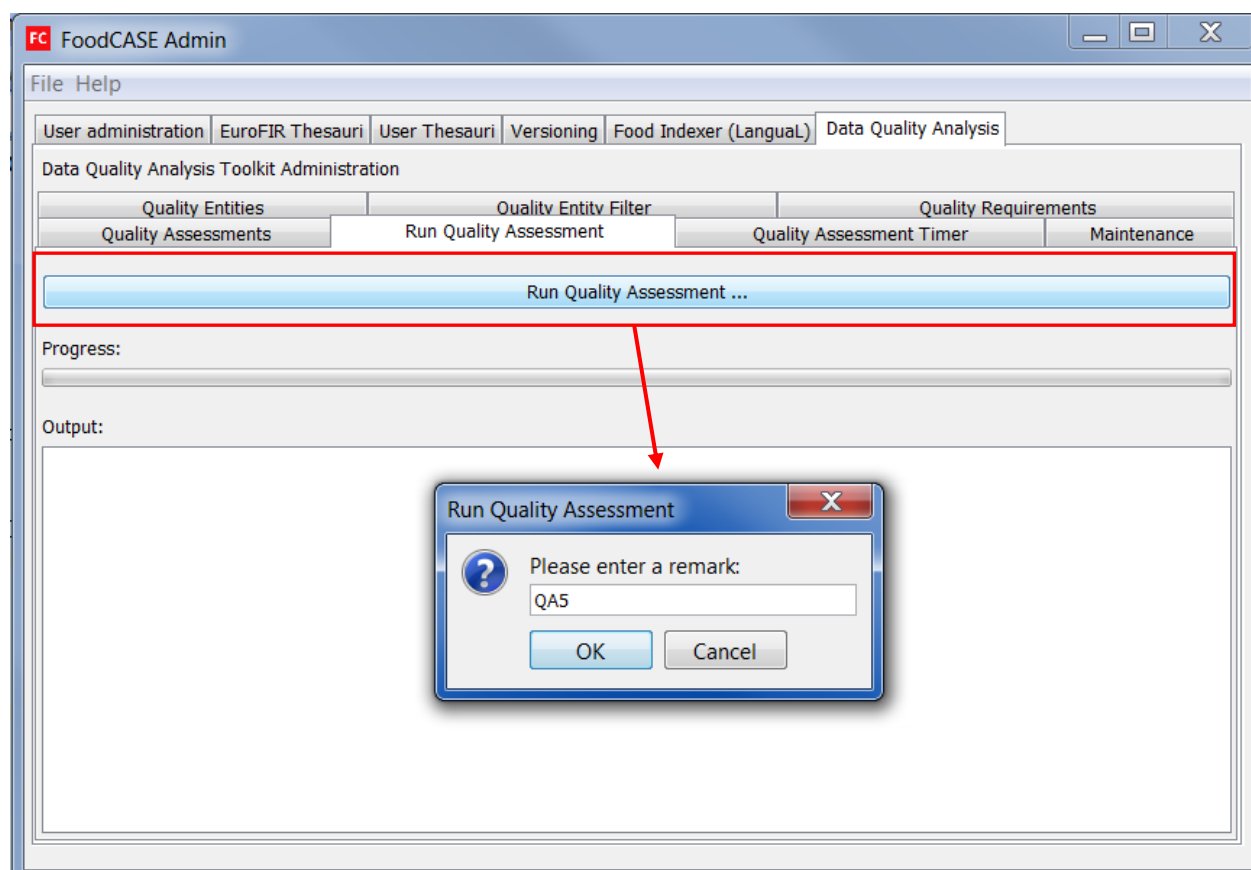


Figure 6.6.6-1

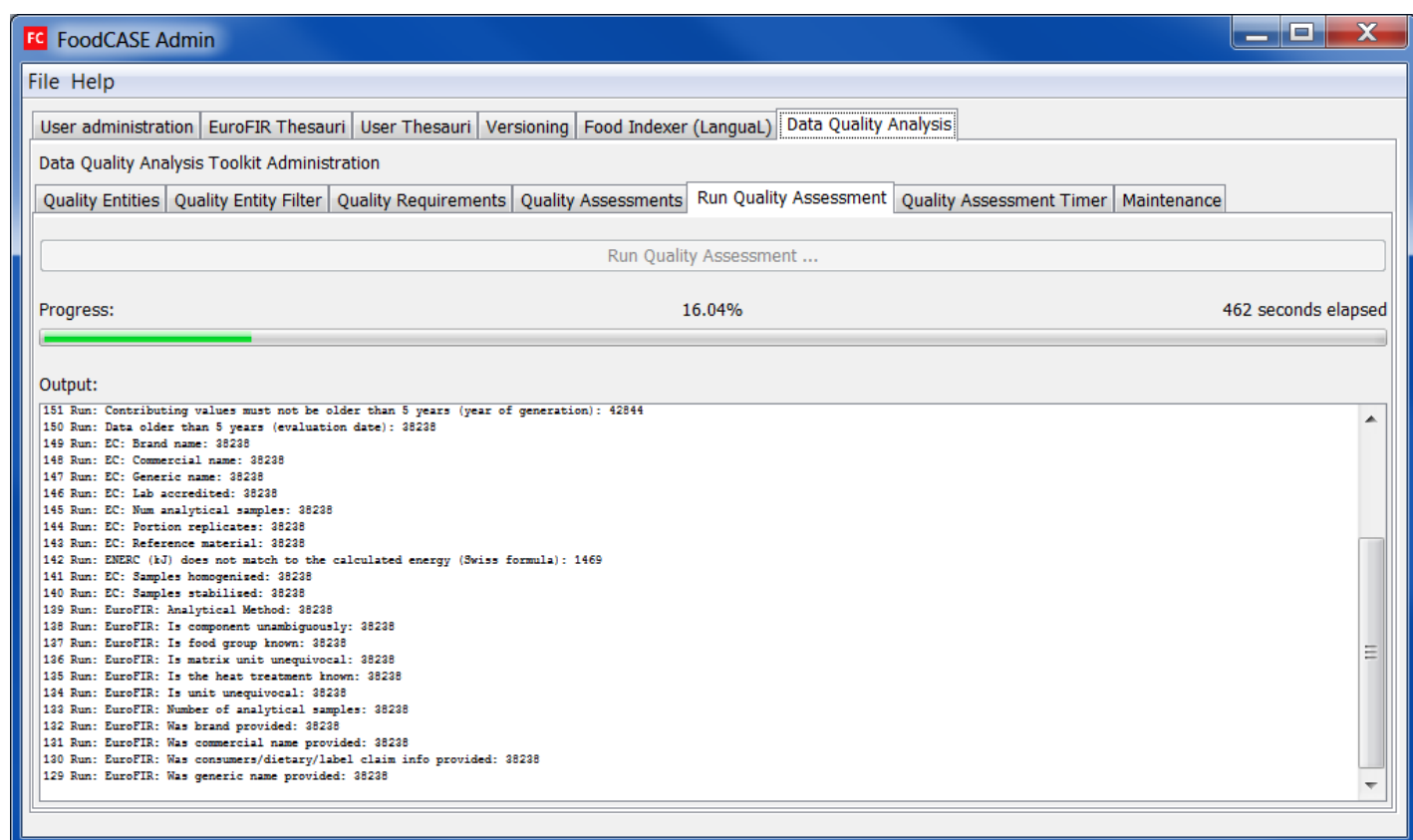


Figure 6.6.6-2

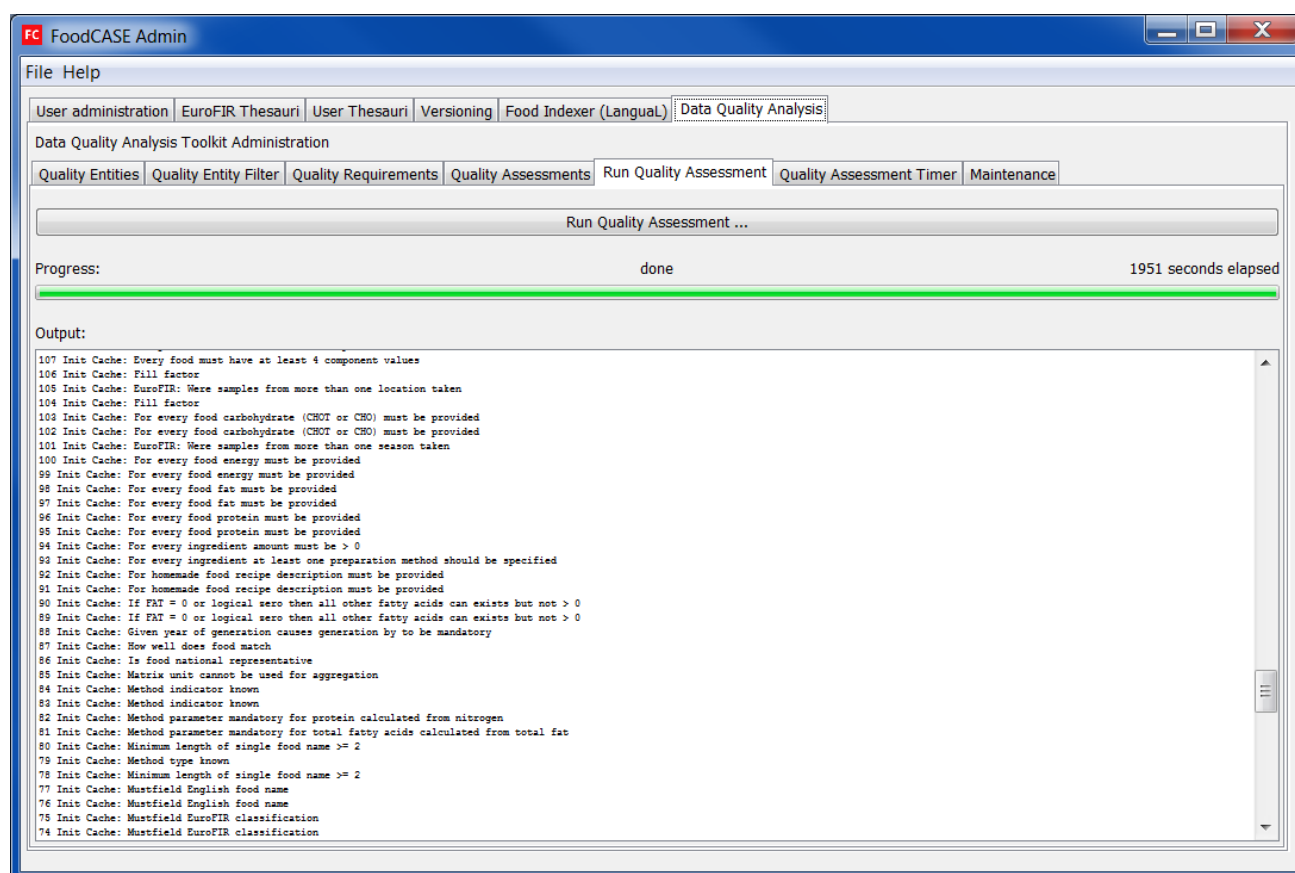


Figure 6.6.6-3

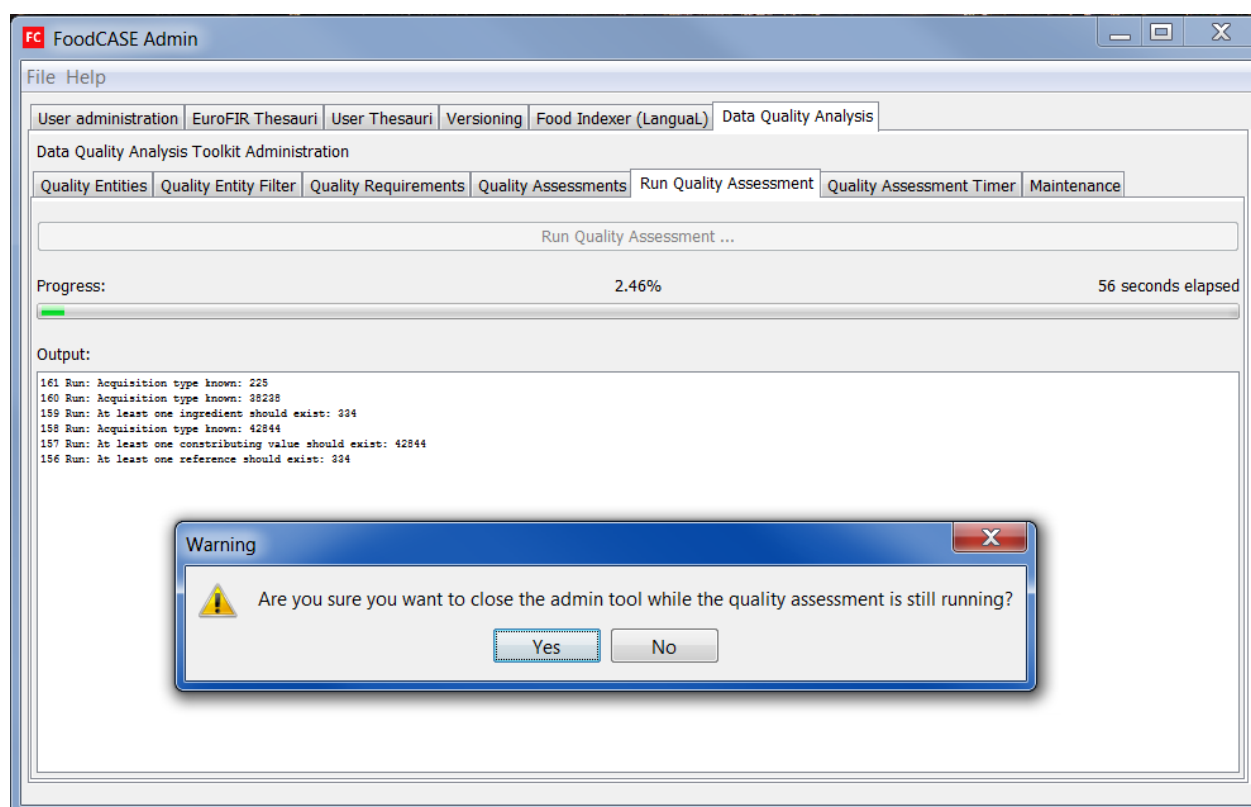


Figure 6.6.6-4

6.6.7 Quality Assessment Timer

In FoodCASE Administration Tool periodicity of the assessment can be set by timer to be carried out regularly. When timer is set, analysis can run automatically without need to start up any of the applications. That means that while only administrator is authorized to set parameters and timer to run the analysis, the results of the assessment can be whenever analysed by compilers in Data Quality Analysis Toolkit.

Procedure for setting/cancelling/resetting timer

1. Go to the Quality Assessment Timer tab (Figure 6.6.7-1)
2. Click the **Register Timer** button
3. Define start time and interval for regular run of analysis (Figure 6.6.7-2) and click the **Save** (or **Save and Close**) button
4. Timer can be cancelled or rescheduled by using the **Cancel Timer** and the **Reschedule Timer** buttons, respectively (Figure 6.6.7-3)

Note: The timer can launch the earliest run shortly after midnight of the actual date. The shortest frequency for running the analysis is 1 day.

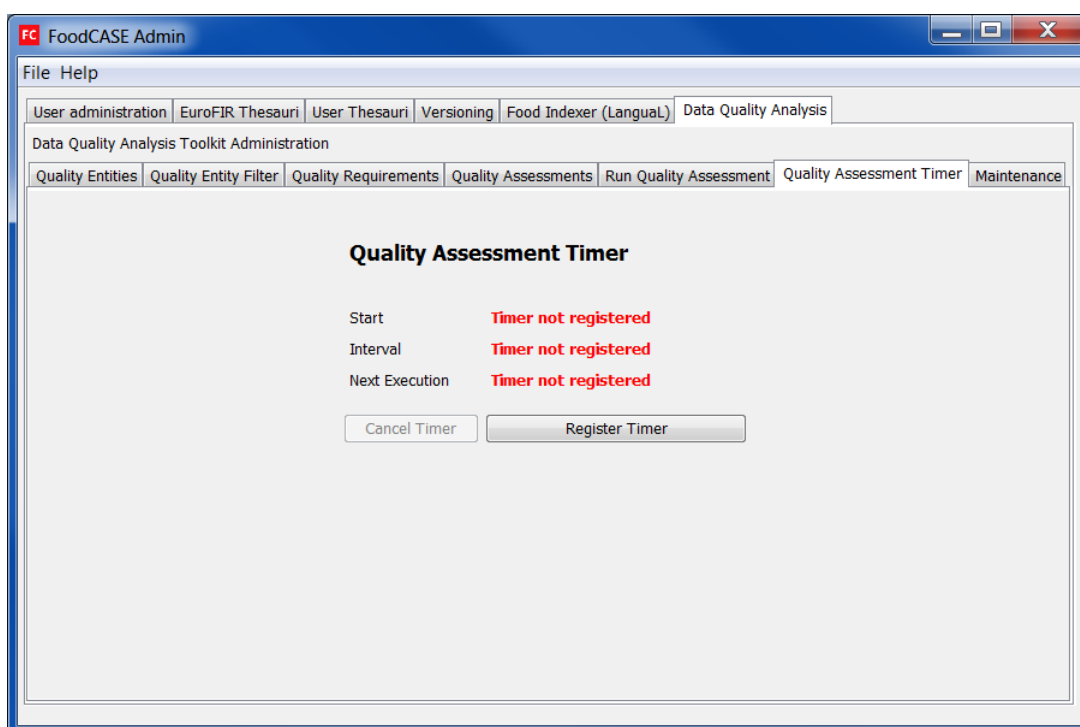


Figure 6.6.7-1

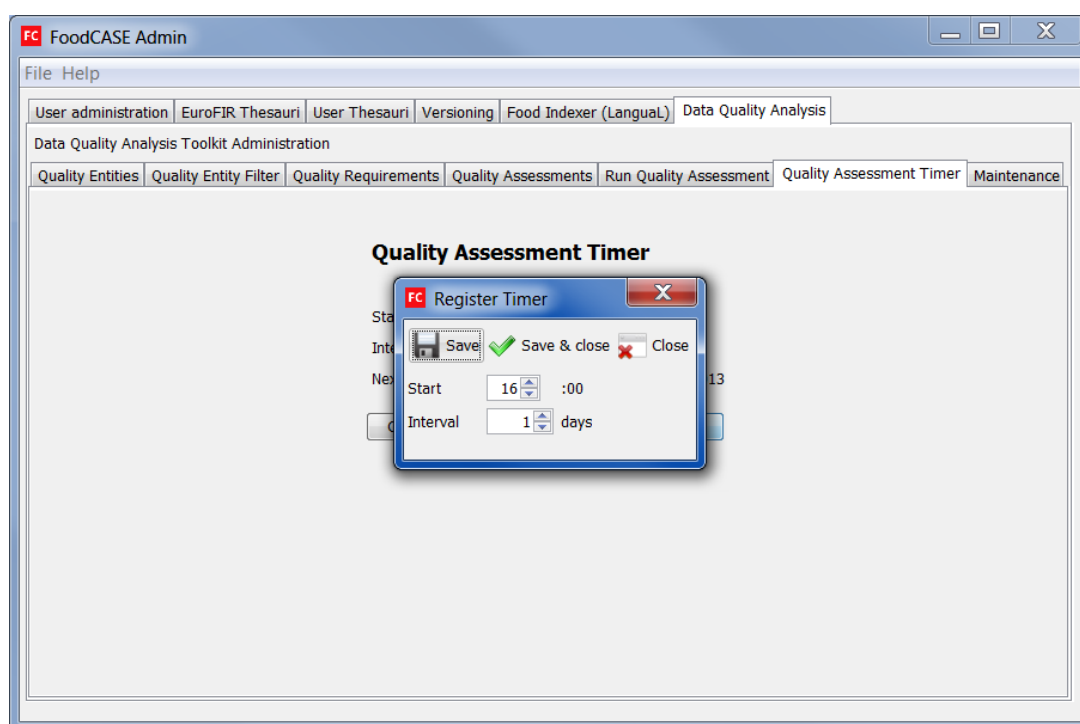


Figure 6.6.7-2

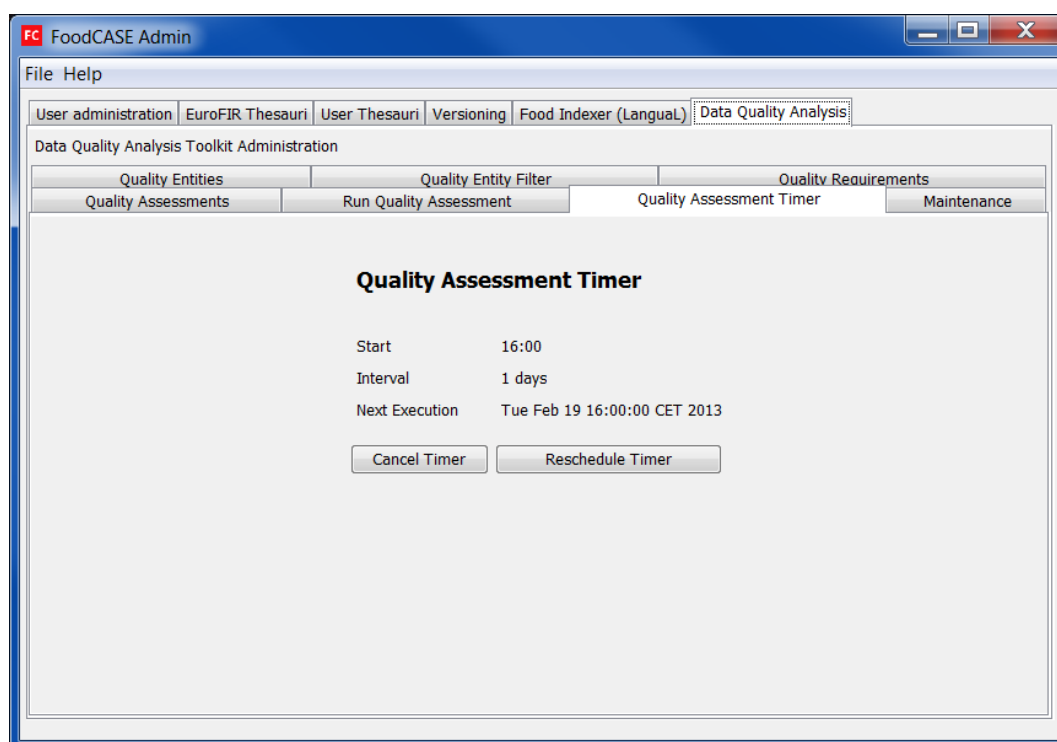


Figure 6.6.7-3

7 FoodCASE Administration Tool vs. Compiler Client Application

There is no limitation for working on both applications at the same time; however, changes conducted in Administration Tool are not applied in FoodCASE Compiler Client unless Compiler Client is restarted.

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Becker, W. - Møller, A.- Ireland, J. - Roe, M. - Unwin, I. - Pakkala, H. (2008). Proposal for structure and detail of a EuroFIR standard on food composition data. II: Technical annex, EuroFIR Technical Report D1.8.19, 40 p.

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