

IRQA integration with MantisBT

August 2010

Requirements Definition and Management

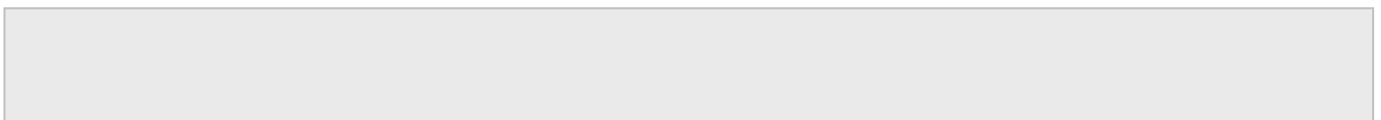


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1 Introduction

This document describes how to exchange information between Mantis Bug Tracking and IRQA. Through the import/export capabilities of both tools it is possible to gather Mantis' elements into an Excel document that may be imported later into IRQA.



2 How it works?

First of all we will export the desired issues from MantisBT to MS Excel (through the CSV export option). Then we will be using the IRQA Import Tool in order to import all the issues from the excel document to IRQA.

2.1 Export elements from MantisBT

Starting in Mantis, we select the option "View Issues" to get a list of the different issues. From this view it is possible to apply filters or the different fields and attributes. As the export option will export only those elements currently displayed we can use this filter to ensure that only the desired elements are exported, for example, we are going to export only the elements in status "new"

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Reporter:	Monitored By:	Assigned To:	Category:	Severity:	Resolution:	Profile:
any	any	any	any	any	any	any
Status:		Product Build:	Product Version:	Fixed in Version:	Priority:	Target Version:
new		any	any	any	any	any
Show:	View Status:	Show Sticky Issues:	Changed(hrs):	Use Date Filters:	Relationships:	
50	any	No	6	No	any	
Platform:	OS:	OS Version:	Tags:			
any	any	any				
Sort by:	Last Update Descending		Project:	current		

Search: [[Simple Filters](#)] [[Create Permalink](#)] [Reset Filter]

Viewing Issues (1 - 50 / 84) [[Print Reports](#)] [[CSV Export](#)] [First Prev 1 2 Next Last]

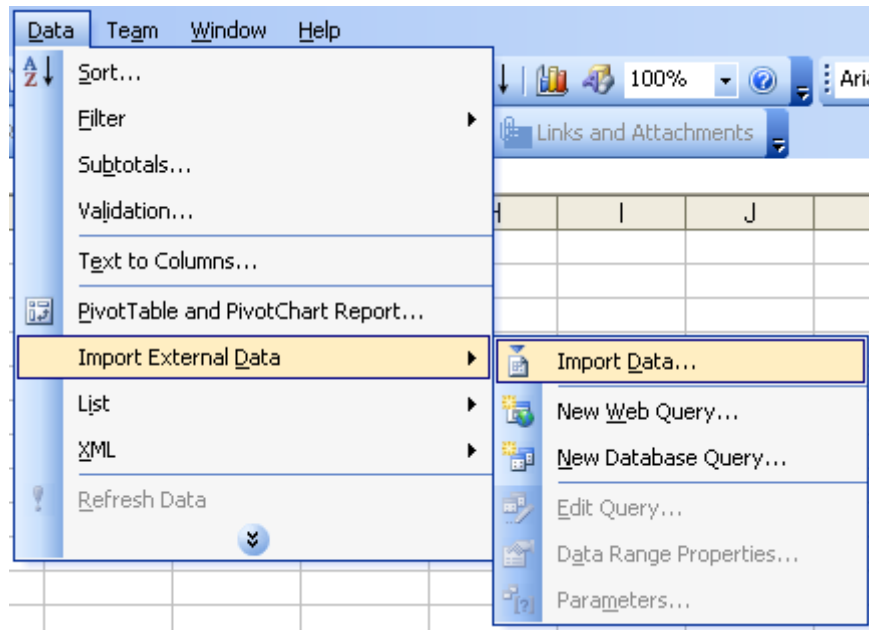
	P	ID	US\$	#	@	Category	Severity	Status	Updated	Summary
	⌵	0009234				[Demo] Other	major	new	2010-08-30	Budget Analysis Doesn't print the BUD020A and BUD020B Formats
	⌵	0003471	US\$ 5	1		[Demo] GUI	crash	new	2010-08-26	When I flapped my arms, a flash flood happened in my home state
		0009202				[Demo] Other	minor	new	2010-08-25	aaa
	⌴	0009200				[Demo] GUI	minor	new	2010-08-25	FFF
		0009181				[Demo] Other	minor	new	2010-08-20	la test
		0003484		1		[Demo] Other	minor	new	2008-05-22	????????????????
		0003474		2		[Demo] Other	minor	new	2008-05-21	Testing preservation (or not) of formatting when paste in code
		0003469				[Demo] GUI	minor	new	2008-05-21	test mantis

Once the filters have been applied, simply click on the [CSV Export] option. This will create a .csv document (anonymous.csv by default). Note that it is possible to extract the elements directly to .xls (Excel) if the Print Reports option is selected, however this option won't be as friendly as the CSV option in order to later import the document into IRQA.

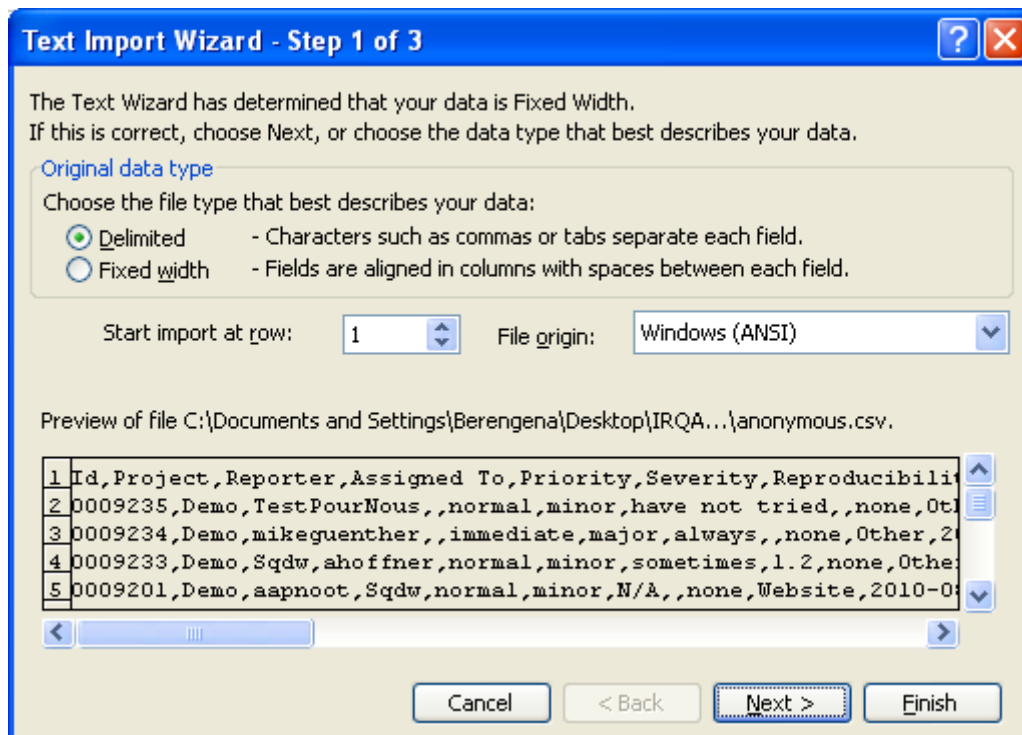
2.2 Convert the .csv document into .xls

Note: This section describes the way to import the document into Excel 2003. Depending on the version of MS Excel you're using, you may find some minor differences in the import process or in the dialog order, however the main steps (selecting a character as separator and so on) remains the same

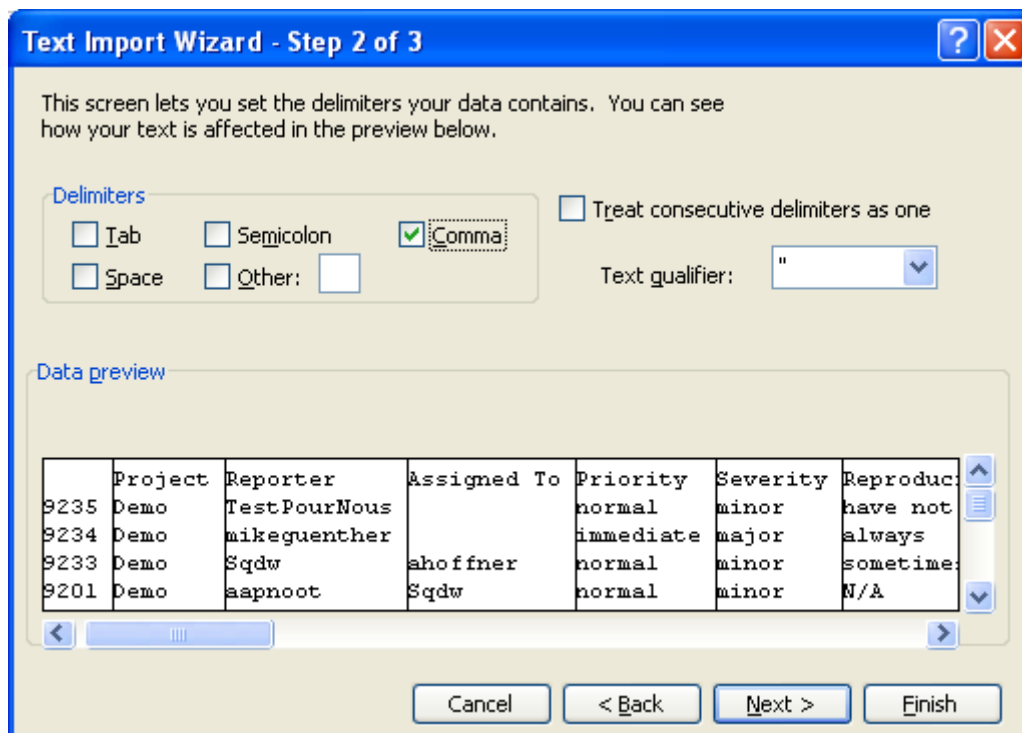
Open a blank excel document and select the option "Data>Import External Data>Import Data..." from the Data menu.



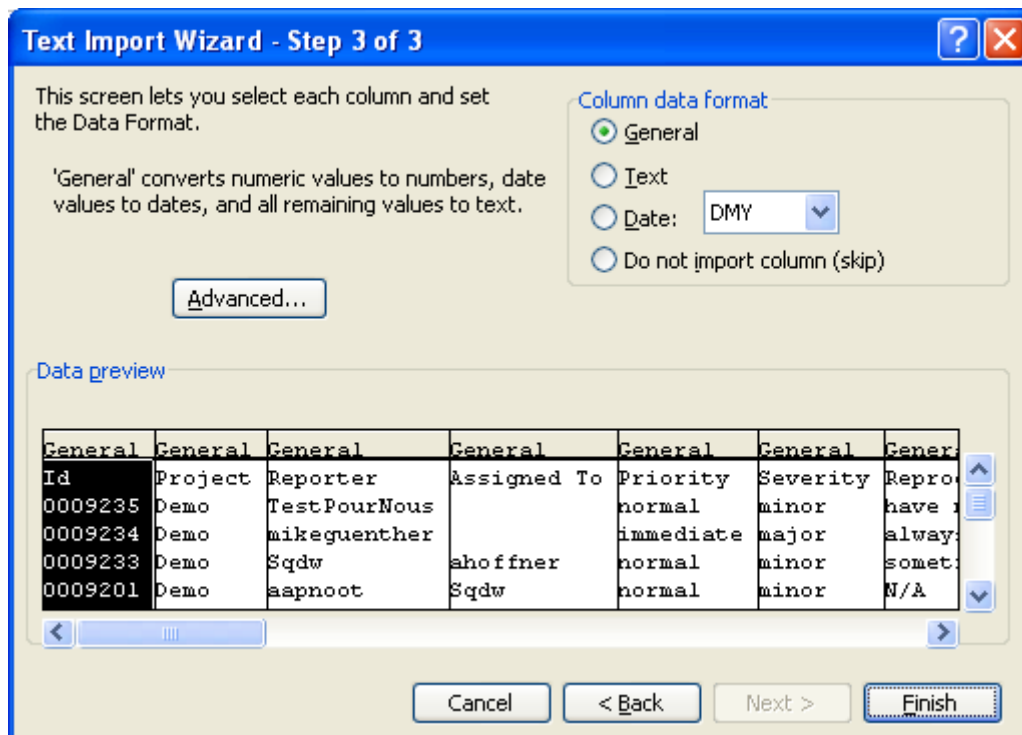
Now follow the Wizard with the following options:



From this first dialog select the option "Delimited" and click on Next>

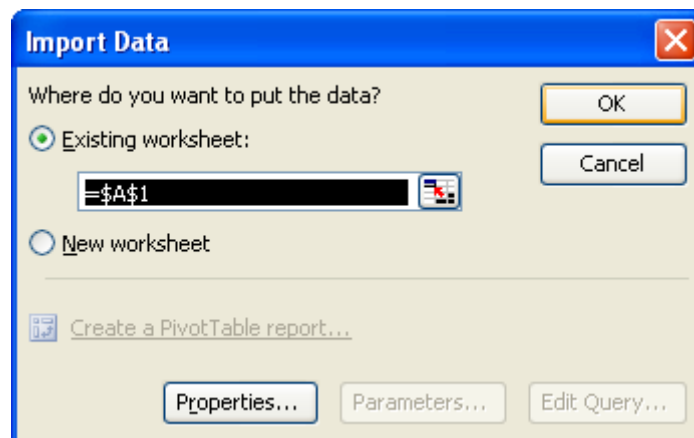


From the dialog above select "Comma" as the delimiter and click on Next>



In this late dialog no option needs to be modified. Click on Finish

Now you need to specify where the elements will be Imported in the excel documents. (By default the selected Cell)



Click Ok and you will get a sheet similar to this one:

1	Id	Project	Reporter	Assigned To	Priority	Severity	Reproducibility	Product Version	Projection	Category	Date Submitted	ETA	OS	
2	9235	Demo	TestPourNous		normal	minor	have not tried		none	Other	31/08/2010	none		
3	9234	Demo	mikeguenther		immediate	major	always		none	Other	30/08/2010	none		
4	9233	Demo	Sqdw	ahoffner	normal	minor	sometimes	1.2	none	Other	30/08/2010	none		
5	9201	Demo	aaqnoot	Sqdw	normal	minor	N/A		none	Website	25/08/2010	none		
6	9206	Demo	veritoss	veritoss	none	minor	random	1.1	none	Other	25/08/2010	none		
7	9227	Demo	amay		0 normal	minor	always	1.1	none	GUI	29/08/2010	none	linux	
8	5896	Demo	brueller		1111	low	trivial	random		none	GUI	07/05/2009	none	
9	9225	Demo	jasanchez	jasanchez	normal	minor	have not tried		none	Other	27/08/2010	none		
10	9216	Demo	jtejada	mkwiatkowski	normal	minor	have not tried		none	GUI	26/08/2010	none		
11	9223	Demo	test99199	zzzzzz	normal	trivial	always	1.1	none	Website	27/08/2010	none	Windows XP	
12	9222	Demo	jeevesh		0 high	major	always	1.0	none	GUI	27/08/2010	none	Windows XP	
13	9221	Demo	tocs	tocs	normal	minor	always	1.2	none	Other	27/08/2010	none		
14	9220	Demo	antara216	tocs	normal	minor	have not tried		none	GUI	27/08/2010	none		
15	9219	Demo	thyspir	ksam	high	major	random	1.0	none	GUI	27/08/2010	none		
16	9218	Demo	testuser76	testuser76	normal	minor	have not tried		none	GUI	27/08/2010	none		
17	9217	Demo	purva		9 normal	minor	sometimes		none	Website	27/08/2010	none	windows	
18	9214	Demo	uls	uls	urgent	minor	always	1.2	none	Website	26/08/2010	none	weasd	
19	3471	Demo	Dan Aquinas		immediate	crash	unable to reproduce	1.0	none	GUI	21/05/2008	none	Truth, Beauty and Light	
20	9209	Demo	rob123321	aiki01	immediate	crash	have not tried		none	Other	25/08/2010	none		
21	9205	Demo	veritoss	veritoss	normal	minor	N/A	1.1	none	Other	25/08/2010	none	windows xp	
22	9210	Demo	rob123321	jnewbigin	immediate	crash	have not tried		none	Other	25/08/2010	none		
23	9207	Demo	veritoss	ebarcsay	normal	minor	N/A	1.1	none	Other	25/08/2010	none		
24	9206	Demo	veritoss	ebarcsay	normal	minor	N/A	1.1	none	Other	25/08/2010	none		
25	9204	Demo	mrcoolice		1 normal	minor	unable to reproduce	1.2	none	GUI	25/08/2010	none	My own	
26	9203	Demo	roy_tate	roy_tate	normal	minor	unable to reproduce	1.2	none	GUI	25/08/2010	none		
27	7916	Demo	rfoster	Tom4531589	urgent	minor	always		none	Other	02/03/2010	none		
28	9202	Demo	test111		normal	minor	have not tried		none	Other	25/08/2010	none		
29	9200	Demo	alpana_04		low	minor	unable to reproduce		none	GUI	25/08/2010	none		
30	9180	Demo	cdussoll	jaysternet	normal	minor	have not tried		none	Website	20/08/2010	none		
31	8053	Demo	xcarval	xcarval	high	major	always	1.1	none	Website	23/03/2010	none	AIX	
32	9198	Demo	stefanie		1036312	low	trivial	sometimes	1.2	none	Website	24/08/2010	none	
33	8054	Demo	demo_account_pm	wiglot	high	feature	N/A	1.2	tweak	GUI	23/03/2010	< 1 day	WIN	
34	6849	Demo	rameshe	rayliang	normal	minor	sometimes		none	GUI	25/09/2009	none		
35	9194	Demo	marceliz		12345678	urgent	major	sometimes		none	Website	23/08/2010	none	

Note: I have highlight the first row with bold in order to make it more readable

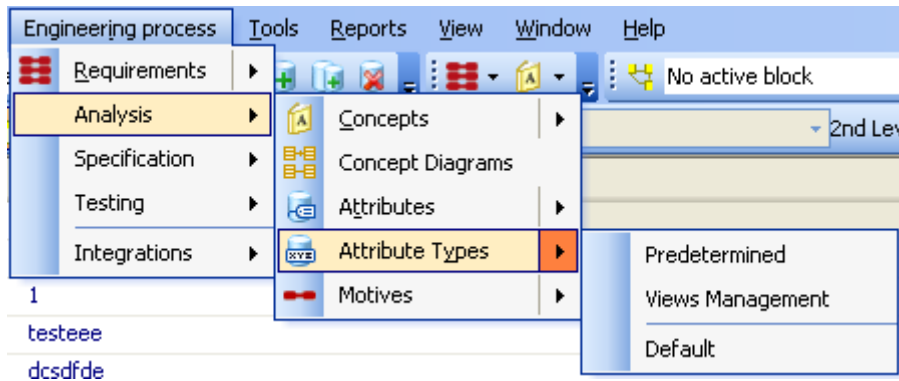
Finally save the document as an xls file and it will be ready to be imported into IRQA.

2.3 Attributes creation in IRQA

Now that the document is ready for importing, there is one additional step that needs to be performed. It is necessary to manually create the attributes that will be imported from the excel document in IRQA. Later, those attributes will be fulfilled with the information from the excel document.

Note: Take into account that this step is only needed if the destination project doesn't contain the attributes. Once created, it is possible to import elements from Mantis as many times as needed.

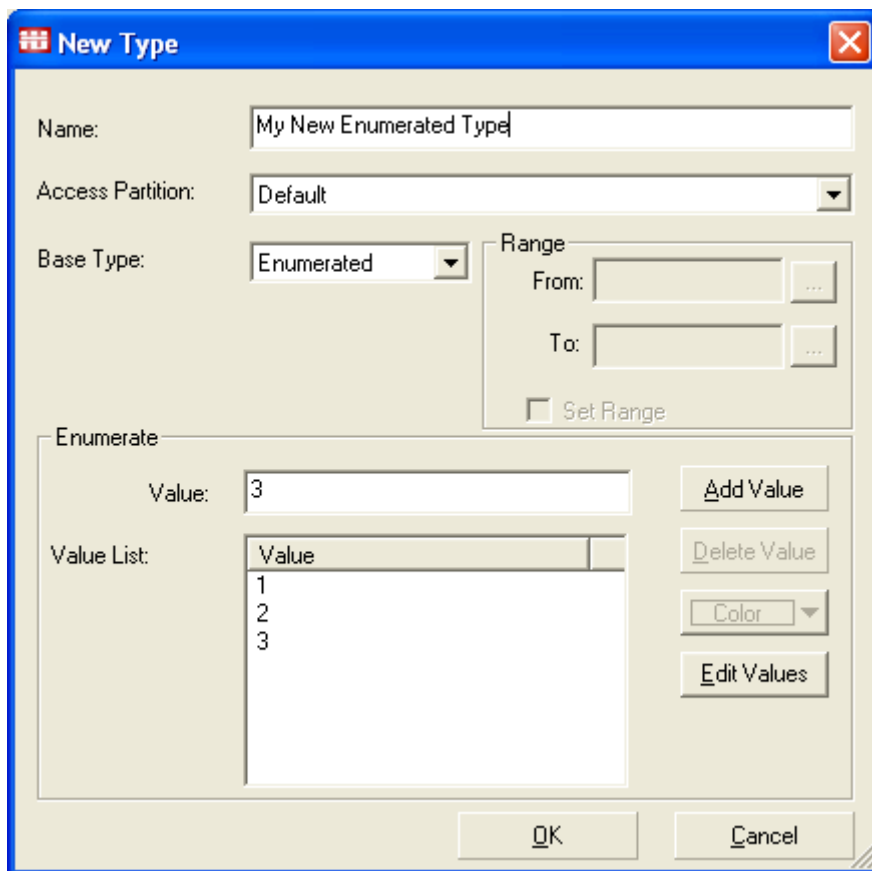
Enter in the Attributes Type view from the "Engineering Process > Analysis > Attribute Types" menu



From this view, it is necessary to create the base type for the attributes that will be imported. Taker into account that Text, Date, Boolean, Integer and Float types are already created in the project, so you only need to define Enumerated (pick list) types.

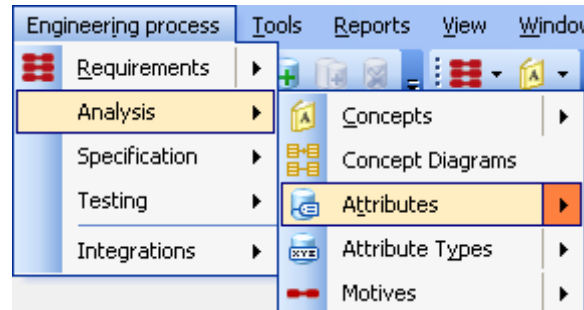
Click on the Add Button () on the elements tool bar or select "Edit>Add Element" in the menu.

In the following dialog (New Type dialog) fulfill the Name, Base Type (Enumerated) and also the available values. Those values need to be exactly the same as in Mantis, in order to perform the mapping. Additionally it is possible to define a color for each value. To enter values, fulfill the Value text area and select "Add Value"



Once finished, click on OK and the new type will be created.

Once the needed types have been created (usually, only enumerated types need to be created) go to the Attributes view from the “Engineering Process > Attributes” menu.

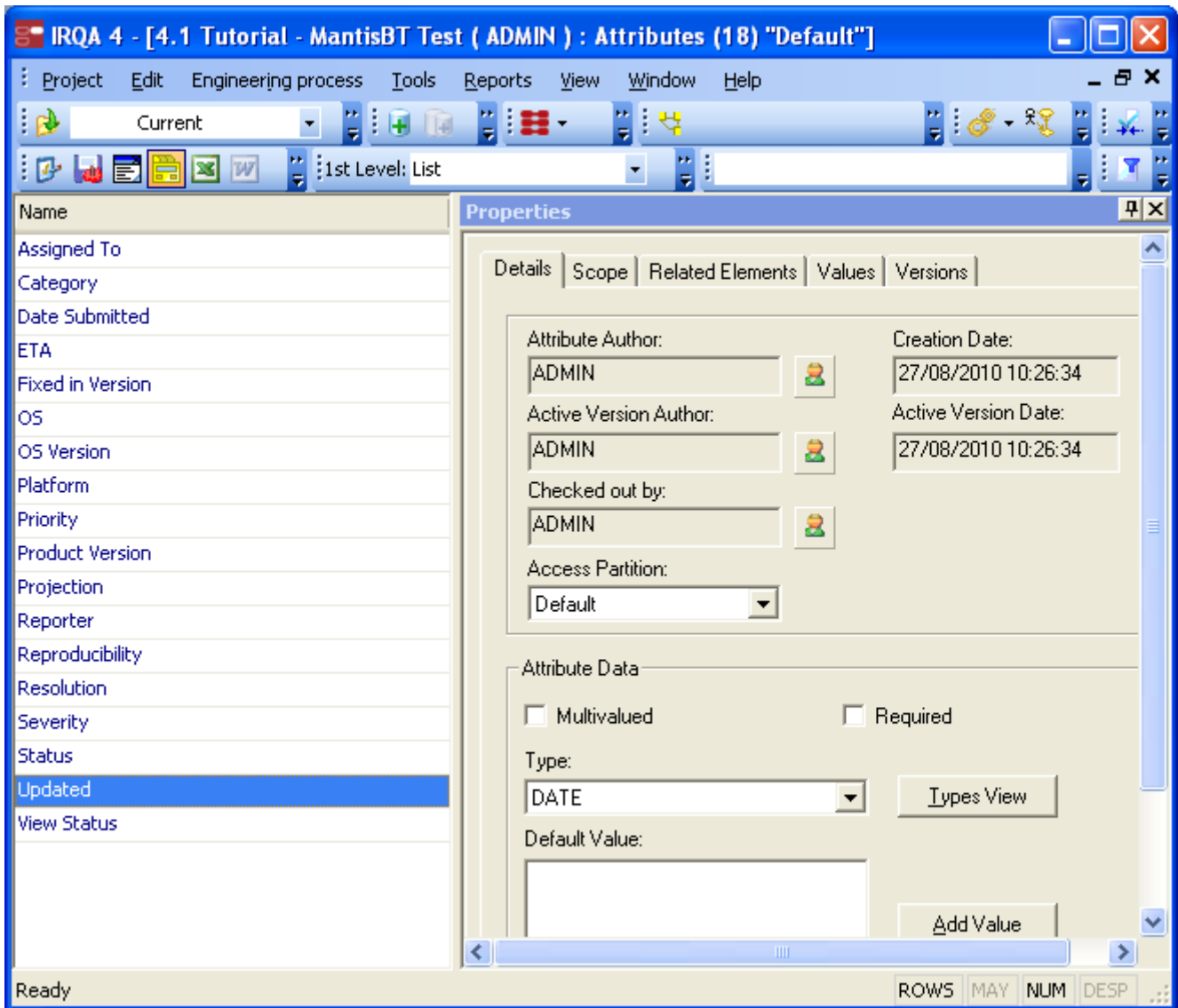


From the attributes a new Attribute named as the excel columns that will be imported (which is the name of the MantisBT Attributes) has to be created. For these attributes creation it is also possible to use the types previously created.

Note: For more info about attributes or attribute types creation, please refer to the “IRQA User Guide”

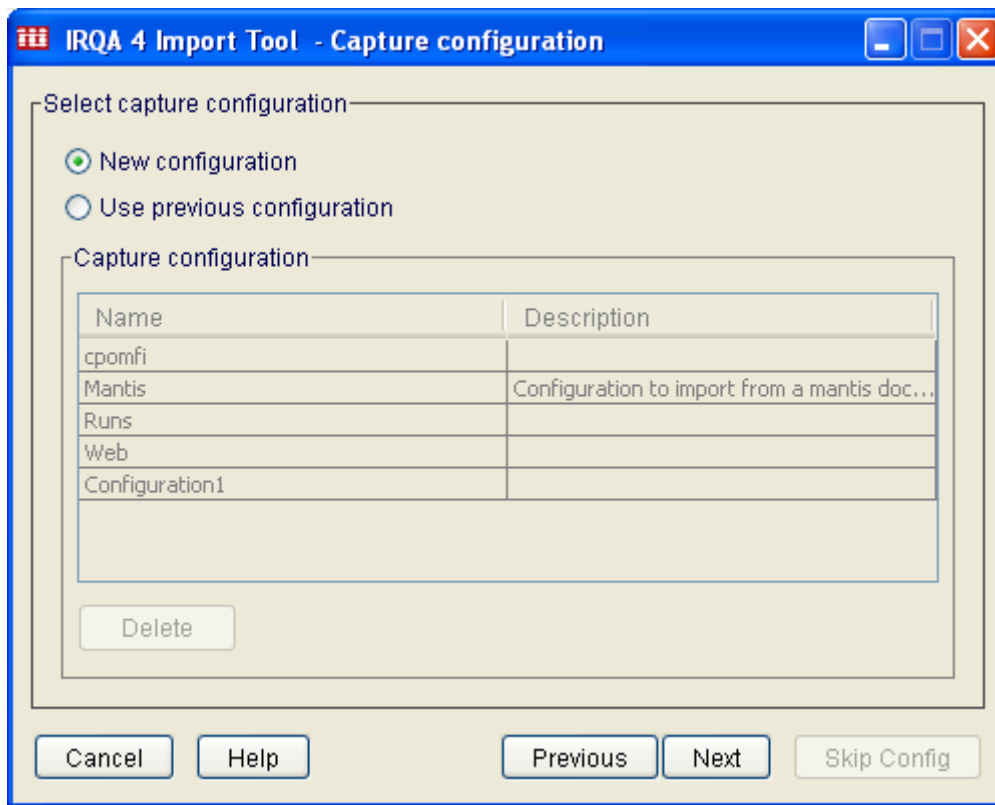
2.4 Import the .xls document into IRQA

The last step consist on importing the excel document into IRQA. Some work has to be done first into IRQA. It is necessary to create one attribute for each attribute the user wants to import from the document.

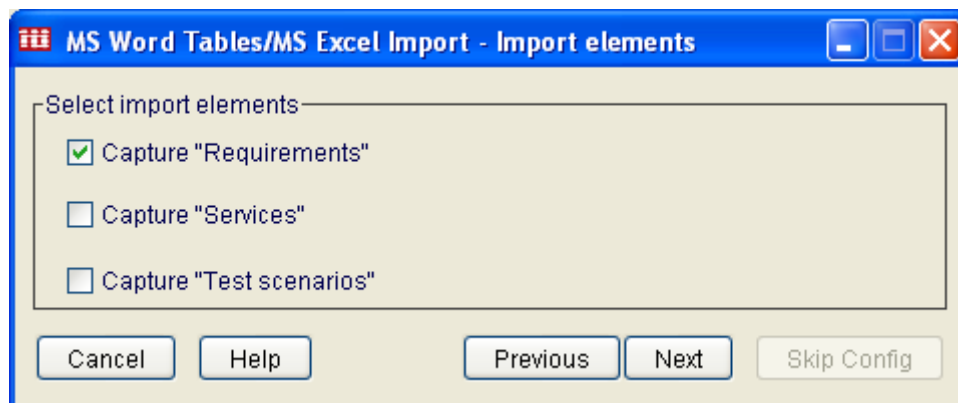


Not only attributes but also types (especially for enumerated attributes) need to be created.

Once created, click on Project>Import option in the Project menu. Select the word document and click on next.

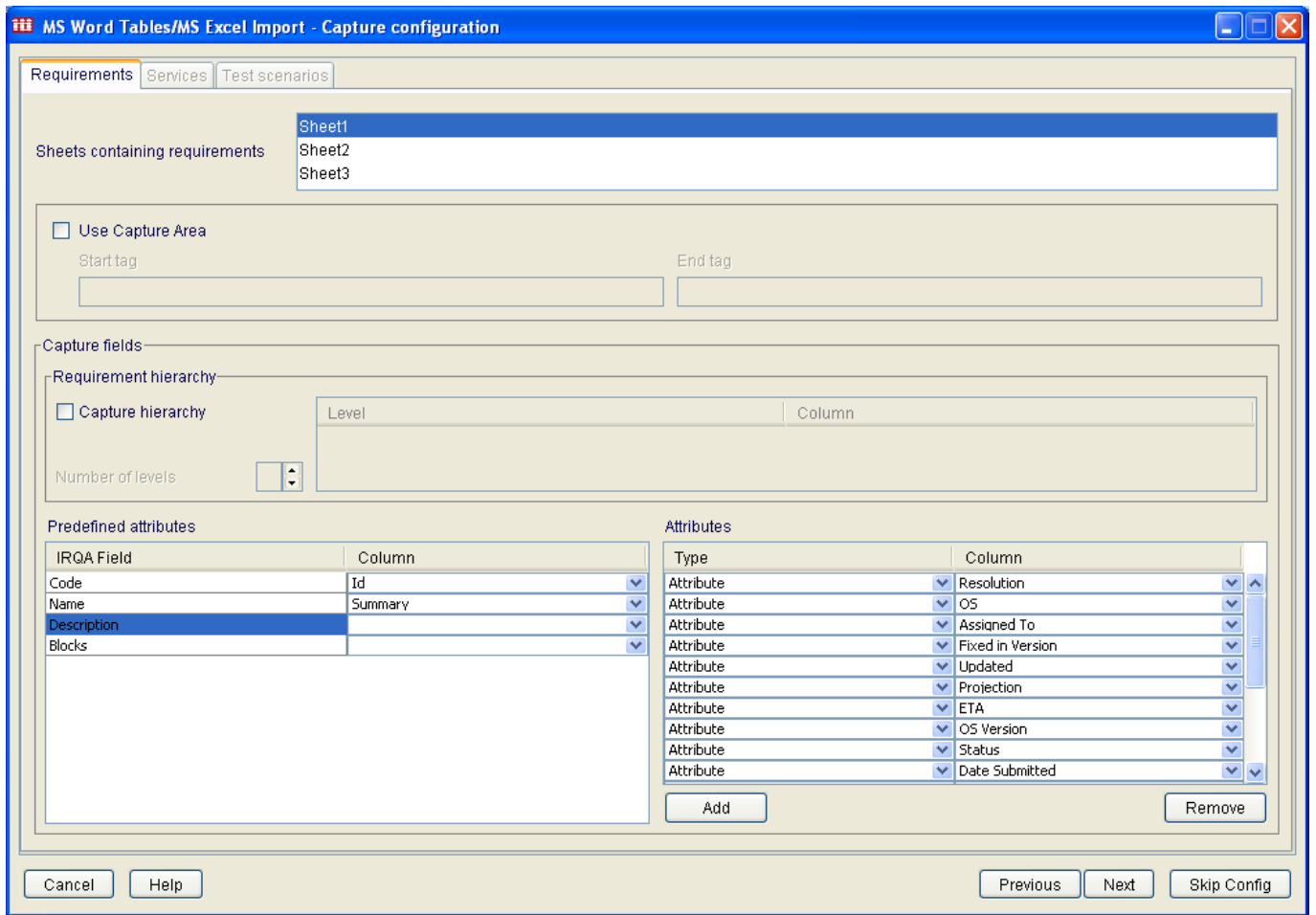


Select new configuration from the Configuration Selection dialog.



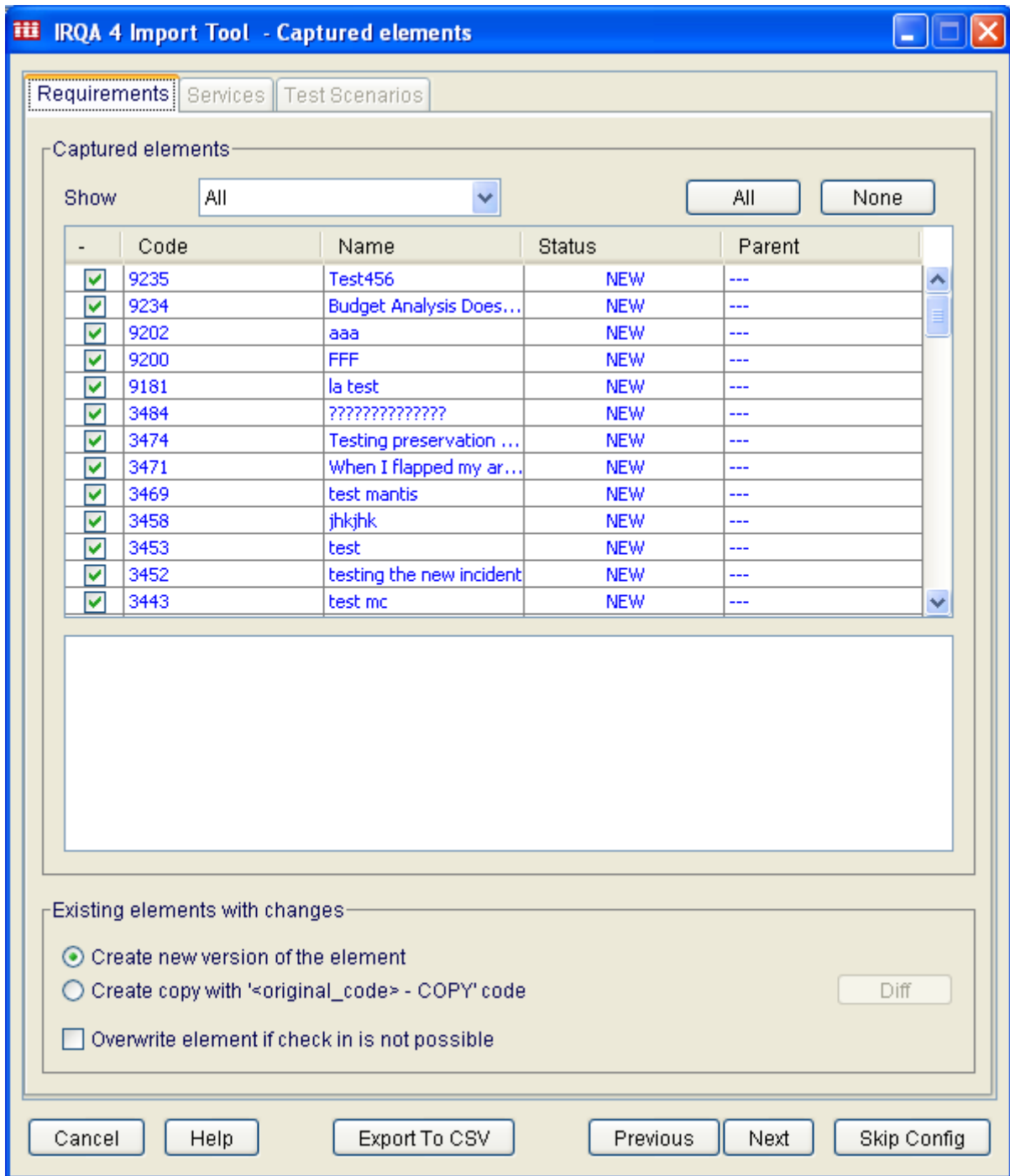
Select Capture "Requirements" from the Import elements dialog.

Now perform the mapping between the different columns that want to be imported and the attributes into IRQA. Take into account that this mapping only need to be performed the first time, for later imports we will save this configuration and will skip this part.

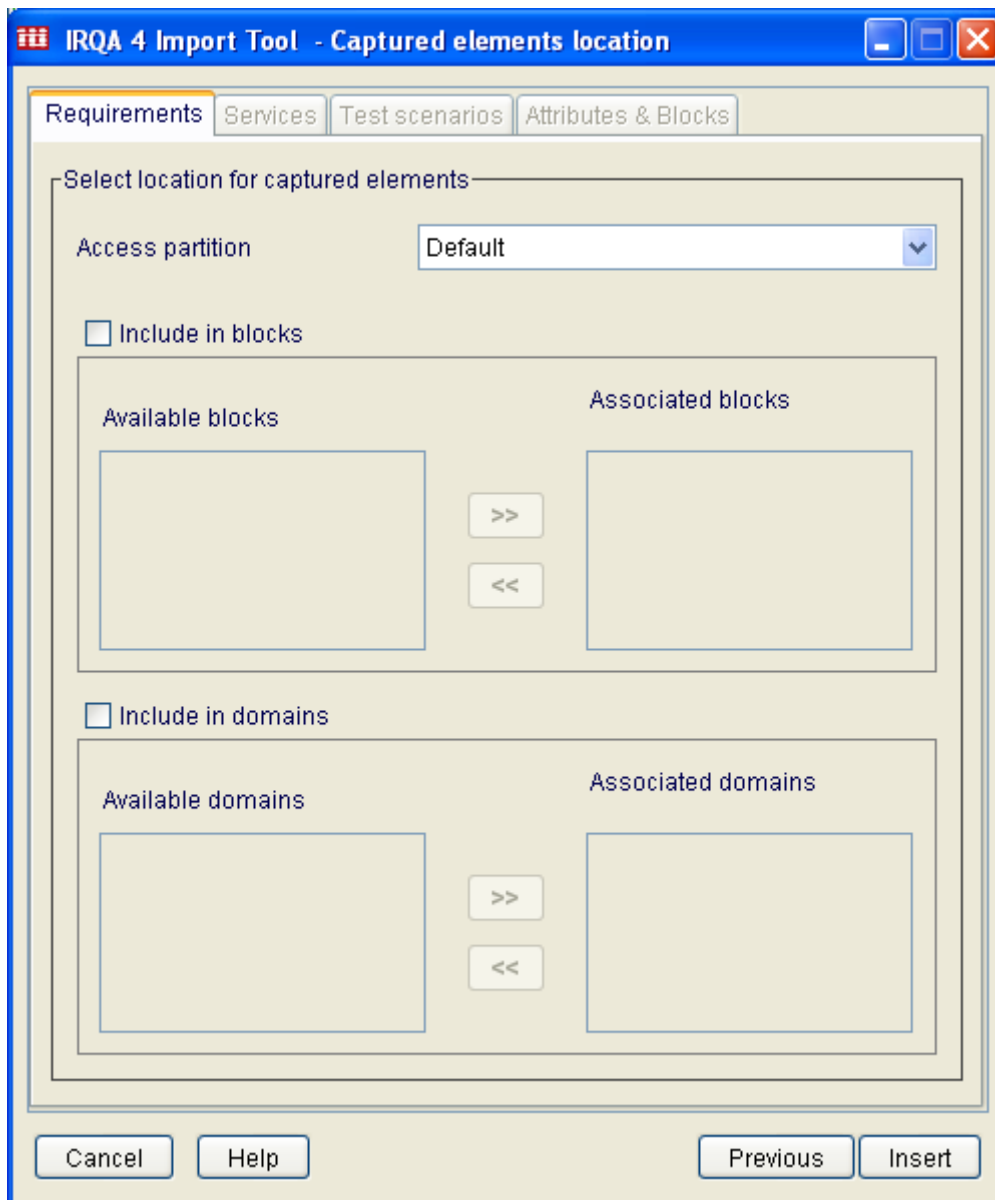


In this case we have mapped the IRQA Name with the Summary; it is also possible to map it with the description, for example.

Click on next, and click again the next dialog. Now the import tool will compare the elements being imported with the one existing into IRQA. If this is the first time you perform the import, all elements will be marked as new.



Select the elements that will be imported and click on next.



From this Dialog users may specify (through the access partition) the rights for the elements that are going to be imported and also allocate them into a block (for example, Mantis block or Issues block).

To finish, click on Insert. Now it is also possible to save the configuration for alter uses. It is recommended to do it in order to skip the attributes mapping.

IRQA 4 - [4.1 Tutorial - MantisBT Test (ADMIN) : Requirements (85) "Default"]

Project: Current | No active block | No active filter

Code	Name	Assigne...	Category	Date Submitted	ETA	Fixed in...	OS	OS Version	Platform	Updated	Priority	Product Version	Proje...	Reporter	Reproducibility	Resolu...	Severity	Status
3245	testreport		GUI	15/04/2008	none					15/04/2008	normal		none	kriegs	have not tried	open	minor	new
3253	Programm geht ned - Wergwerfen? Geschisse schon wieder ned.....		GUI	16/04/2008	none					16/04/2008	high		none	stefano	always	open	crash	new
3259	bla		GUI	16/04/2008	none					16/04/2008	normal		none	niedbalski	sometimes	open	trivial	new
3262	121		GUI	16/04/2008	none		WM	6.0	Smartp...	16/04/2008	normal		none	mirakle	have not tried	open	minor	new
3271	asdfasdfasdf		Other	17/04/2008	none		asdf	asdf	asdf	17/04/2008	low	1.2	none	vajapeyc	sometimes	open	trivial	new
3278	Test Bug		GUI	18/04/2008	none					18/04/2008	normal		none	franka	sometimes	open	trivial	new
3330	test		Other	29/04/2008	none					29/04/2008	normal		none	macklus	have not tried	open	minor	new
3427	aaa		Other	13/05/2008	none					13/05/2008	normal		none	n26881387	have not tried	open	minor	new
3443	test mc		GUI	17/05/2008	none	none				18/05/2008	normal		none	roney	always	open	feature	new
3452	testing the new incident		Other	19/05/2008	none					19/05/2008	normal		none	bwagner	have not tried	open	minor	new
3453	test		Website	19/05/2008	none					19/05/2008	normal		none	turash-da32	always	open	minor	new
3458	jhkhk		Other	20/05/2008	none					20/05/2008	normal		none	shivanand	have not tried	open	minor	new
3469	test mantis		GUI	21/05/2008	none					21/05/2008	normal		none	bgrommes	have not tried	open	minor	new
3471	When I flapped my arms, a flash flood happened in my home state		GUI	21/05/2008	none		Truth, B...	v1.0	Earth	26/08/2010		1.0	none	Dan Aquinas	unable to reprod...	open	crash	new
3474	Testing preservation (or not) of formatting when paste in code		Other	21/05/2008	none					21/05/2008	normal		none	Dan Aquinas	N/A	open	minor	new
3484	???????????????		Other	22/05/2008	none					22/05/2008	normal		none	mall5317031	have not tried	open	minor	new
9181	la test		Other	20/08/2010	none					20/08/2010	normal		none	bbob	have not tried	open	minor	new
9200	FFF		GUI	25/08/2010	none					25/08/2010	low		none	alpana_04	unable to reprod...	open	minor	new
9202	aaa		Other	25/08/2010	none					25/08/2010	normal		none	test111	have not tried	open	minor	new
9234	Budget Analysis Doesn't print the BUD020A and BUD020B Formats		Other	30/08/2010	none				i	30/08/2010			none	mikequent...	always	open	major	new
9235	Test456		Other	31/08/2010	none					31/08/2010	normal		none	TestPour...	have not tried	open	minor	new

Ready | ROWS | MAY | NUM | DESP



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