

## Redmine - Defect #5329

### Time entries report broken on first week of year

2010-04-15 19:56 - Holger Just

<b>Status:</b>	Closed	<b>Start date:</b>	2010-04-15
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jean-Philippe Lang	<b>% Done:</b>	0%
<b>Category:</b>	Time tracking	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.3.0	<b>Affected version:</b>	
<b>Resolution:</b>	Fixed		

#### Description

Redmine stores some additional columns time entries:

- tmonth -> date.month
- tyear -> date.year
- tweek -> date.cweek

These are used to support group by of the time entries in the reports view. However, there is an edge case which breaks the code.

Consider the following 2 time entry:

field	Time Entry 1	Time Entry 2
spent_on	2009-12-12	2010-01-01
tmonth	12	01
tyear	2009	2010
tweek	53	53

Both are in the same week, but in different years. This leads to the second entry to be not displayed often, and if then in the wrong week, i.e. 2010-53. For the group-by week, instead of date.year, date.cyear should be used. It results in 2009 for the second example entry.

The attached patch creates a test for that. It also adds the two time entries above as fixtures. Thus, some other tests had to be adapted.

#### Related issues:

Related to Redmine - Defect # 4953: "In the past N days" filter displays N+1 ...	<b>Confirmed</b>	<b>2010-03-01</b>
Duplicated by Redmine - Defect # 3060: Week numbers dont match in reports and...	<b>Closed</b>	<b>2009-03-27</b>
Duplicated by Redmine - Defect # 2462: Incorrect Week Number in Spent Time Re...	<b>Closed</b>	<b>2009-01-07</b>
Duplicated by Redmine - Defect # 13082: Wrong year in Spent Time Report	<b>Closed</b>	
Duplicated by Redmine - Defect # 13159: Spent Time report - Column Total diff...	<b>Closed</b>	
Duplicated by Redmine - Defect # 12891: Wrong week number in time entries	<b>Closed</b>	
Duplicated by Redmine - Defect # 12803: Cross-year date range in time trackin...	<b>Closed</b>	

#### Associated revisions

##### Revision 11471 - 2013-02-24 13:18 - Jean-Philippe Lang

Fixed that time entries report by week breaks on edge cases (#5329).

##### Revision 11565 - 2013-03-09 10:15 - Jean-Philippe Lang

Merged r11471 from trunk (#5329).

## History

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### #1 - 2010-06-04 17:06 - Holger Just

- *File 5329\_add\_year\_of\_week\_to\_time\_entries.diff added*

The attached patch fixes the edge case.

It introduces a new field named `twyear` to the time entries. It contains the year of the week of the entry. So for the above example, its content for both entries would be 2009. That way, it is possible to properly group based on weeks.

The included tests run in a current trunk.

### #2 - 2010-06-19 18:43 - Holger Just

Just verified that patch again on a current trunk.

It is clean and does what it advertises. I'm just not 100% sure if I managed to find all usages of the week stuff in `time_entries`. But I'm rather confident, I did.

### #3 - 2010-06-20 00:08 - Holger Just

Okay, after thinking a bit more about it (and fixing some other bugs :)), I conclude that the whole concept of denormalizing the week into the database for grouping can not properly work.

This is because the week boundaries expected by a user are actually not fixed but depend on her settings. So the actual data set in a group depends on user settings. To always show the correct result, we would have to

- either save at least two variants of the `tweek + twyear` (for week starting sunday or monday)
- or calculate the week using SQL-functions.

I would prefer the second method. Unfortunately, these functions are not fully standardized, so there would be a differentiation needed for different database engines.

Until then, the attached patch fixes the behavior for the standard commercial week starting on Mondays.

### #4 - 2013-01-14 16:04 - Daniel Felix

- *Status changed from New to Needs feedback*  
- *Affected version (unused) deleted (devel)*

This is another issue regarding the timelog. Someone who can confirm this is still able to reproduce in trunk?

### #5 - 2013-01-18 07:38 - Alexey Verin

Please, update patch for version 2.2.1.  
My Ruby skill is not enough for this (

**#6 - 2013-01-19 04:58 - Mischa The Evil**

Daniel Felix wrote:

| [...] Someone who can confirm this is still able to reproduce in trunk?

I can't remember any changes that fixes this issue specifically, though I'm unable to test this on current trunk.

**#7 - 2013-01-19 08:53 - Daniel Felix**

- Status changed from Needs feedback to Confirmed

Alexey already encountered this bug again. (See linked ticket)

This is the confirmation for this issue.

**#8 - 2013-02-19 18:18 - Filou Centrinov**

Duplicate: #13159

**#9 - 2013-02-22 00:08 - Filou Centrinov**

- File *time\_report.rb.patch* added

I fixed this issue with a patch. Could we add this to Redmine 2.3?

I verified my solution for different weeks constellations: Years with 52 and 53 weeks or first week that starts in last year and those which don't. Everything works fine.

**#10 - 2013-02-22 02:24 - Filou Centrinov**

- File *time\_report.rb.2.patch* added

**#11 - 2013-02-22 11:54 - Daniel Felix**

The patch works on my testsystem too. Thanks for providing this patch!

**#12 - 2013-02-22 13:16 - Jean-Philippe Lang**

- Target version set to Candidate for next minor release

**#13 - 2013-02-24 13:19 - Jean-Philippe Lang**

- Status changed from Confirmed to Resolved

- Assignee set to Jean-Philippe Lang

- Target version changed from Candidate for next minor release to 2.3.0

- Resolution set to Fixed

Patch committed in r11471 with a test, thanks.

**#14 - 2013-03-04 00:04 - Jean-Philippe Lang**

- Subject changed from *Group-by week of time entries breaks on edge cases* to *Time entries report broken on first week of year*

**#15 - 2013-03-09 10:15 - Jean-Philippe Lang**

- Status changed from *Resolved* to *Closed*

Merged.

**#16 - 2013-03-21 10:40 - Pavel Potcheptsov**

Hello, I've updated to 2.3.0.

Is it all right with:

Project -> Overview -> Report -> Details: Days, Add: User ?

What Days it should display?

In my case it displays days from 2012 year and not the last days, when time was logged in 2013.

**Files**

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functional_test_for_problem.patch	4.11 KB	2010-04-15	Holger Just
5329_add_year_of_week_to_time_entries.diff	6.91 KB	2010-06-04	Holger Just
time_report.rb.patch	863 Bytes	2013-02-21	Filou Centrinov
time_report.rb.2.patch	1.04 KB	2013-02-22	Filou Centrinov