

## Redmine - Feature #11253

### Total time spent from subtasks on the issue list

2012-06-25 15:59 - Florian Schwab

<b>Status:</b> Closed	<b>Start date:</b>
<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> 3.1.1	
<b>Resolution:</b> Fixed	
<b>Description</b>	
<p>On the issue list the progress bar includes the progress of the subtasks and the estimated time is the sum of the estimates of the subtasks but the spent time is not aggregated.</p> <p>Please see the attached screenshot for details.</p>	
<b>Related issues:</b>	
Related to Redmine - Feature # 11087: Calculate Total Time Spent on Parent Issue	<b>Closed</b>
Related to Redmine - Defect # 20456: 3.1-stable/3.1.0: missing commits (omitt...	<b>Closed</b>
Related to Redmine - Defect # 17550: Spent time in exported CSV is wrong	<b>Closed</b>
Related to Redmine - Defect # 16159: Wrong calculation of spent time field on...	<b>Closed</b>
Related to Redmine - Defect # 10527: time_spent does not sort properly for th...	<b>Closed</b>
Duplicated by Redmine - Defect # 11566: Spent Time isn't added on Issue List ...	<b>Closed</b>
Duplicated by Redmine - Defect # 12610: sub tasks sent time is not counted on...	<b>Closed</b>
Duplicated by Redmine - Defect # 12572: Wrong calculation of the spent time f...	<b>Closed</b>
Duplicated by Redmine - Defect # 16363: Spent time in list view is not the sa...	<b>Closed</b>
Duplicated by Redmine - Patch # 14483: Add column "cumulated spent time" to i...	<b>Closed</b>
Duplicated by Redmine - Feature # 14384: Add column "spent time" on list issues	<b>Closed</b>

#### Associated revisions

##### Revision 14406 - 2015-07-05 14:16 - Jean-Philippe Lang

Adds "Total spent hours" column available on the issue list (#11253).

##### Revision 14407 - 2015-07-05 14:38 - Jean-Philippe Lang

Preload total spent time on the issue list with 1 query (#11253).

##### Revision 14533 - 2015-08-31 05:38 - Toshi MARUYAMA

Merged r14406 from trunk to 3.1-stable (#11253, #20456)

Adds "Total spent hours" column available on the issue list.

##### Revision 14534 - 2015-08-31 05:38 - Toshi MARUYAMA

Merged r14407 from trunk to 3.1-stable (#11253, #20456)

Preload total spent time on the issue list with 1 query.

**Revision 14535 - 2015-08-31 05:38 - Toshi MARUYAMA**

Merged r14408 from trunk to 3.1-stable (#11253, #20456)

Limit queries to given issues only.

**Revision 14536 - 2015-08-31 05:38 - Toshi MARUYAMA**

Merged r14409 from trunk to 3.1-stable (#11253, #20456)

Fixes methods comments.

**Revision 14537 - 2015-08-31 05:38 - Toshi MARUYAMA**

Merged r14410 from trunk to 3.1-stable (#11253, #20456)

Asserts that spent time is preloaded.

**Revision 14596 - 2015-09-16 05:52 - Toshi MARUYAMA**

Merged r14405 from trunk to 3.1-stable (#11253, #20456)

Don't display estimated hours when nil and total is 0.

**History**

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**#1 - 2012-06-25 18:21 - Jean-Philippe Lang**

- *Tracker changed from Defect to Feature*
- *Subject changed from Aggregated time spent from subtasks to Aggregated time spent from subtasks on the issue list*
- *Category changed from Issues to Time tracking*

**#2 - 2012-06-26 10:40 - Aaron Fischer**

- *File 2012-06-26-102630\_345x120\_screenshot.png added*

I have the same issue here. It's not a feature, its a inconsistency in the number displayed. On the ticket detail page, the already spent times on the sub-tickets gets added together (see screenshot). On the ticket list view, the column for the spent times are just for the single ticket.

To be consistent, the number in the ticket list view should be the same as in the ticket detail view.

**#3 - 2012-07-13 15:18 - Victor Hugo Bilouro**

I use the following query to obtain the information.

```
select story.id,  
       story.subject,  
       max(story.estimated_hours) story__estimated,  
       sum(subtask.estimated_hours) subtask__estimated,
```

```

sum(te.hours) subtask__spent_time

from issues story

join issues subtask
  on subtask.parent_id = story.id

left
join (select project_id,
        issue_id,
        sum(hours) hours
      from time_entries
      where project_id = 1
      group
        by project_id,
        issue_id
    ) te
  on te.issue_id = subtask.id
  and te.project_id = subtask.project_id

where story.project_id = 1
  and story.tracker_id = 4

group
  by story.id,
  story.subject

```

#### #4 - 2012-07-16 17:27 - Alcides Silveira Costa

+1

#### #5 - 2012-07-20 16:26 - Sylvain Langlade

Just in case it can help, a quick patch for v1.4.4. Just add the following

```

@available_columns.insert index, QueryColumn.new(:total_spent_hours,
  :sortable => "(SELECT COALESCE(SUM(hours), 0) FROM #{TimeEntry.table_name} WHERE #{TimeEntry.table_name}.issue_id = #{
Issue.table_name}.id)",
  :default_order => 'desc',
  :caption => :label_overall_spent_time
)

```

to the app/models/query.rb file, at line 382 (just after the same code for the spent\_hours column). Restart apache2 and it should add the desired column

**Warning** : it really is just a quick hack, if you look at the :sortable entry, the SQL code isn't what it should be. It works for issue list, but it may fails miserably for some other part of Redmine... --Update-- : well, I should have guessed, when you order the list by this overall spent time, it fails as it sorts by the non-overall spent time...

HTH.

**#6 - 2012-07-20 16:54 - Sylvain Langlade**

As a side note : that's weird, with my redmine.org's account, I can change this issue status and its assignment ! Have I missed something ??

**#7 - 2012-07-26 17:08 - Allan Story de Almeida Martins**

+1

i have this problem in redmine 2.0.3

**#8 - 2012-07-27 17:06 - Rodrigo Merola Winterhalter**

+1

**#9 - 2012-08-16 20:31 - Allan Story de Almeida Martins**

i use idea of Sylvain Langlade with query of Victor Hugo Bilouro and worked

**#10 - 2012-09-12 15:10 - Aaron Fischer**

Whats the current status of this task?

Is there a chance to get this into the 2.2.0 release?

**#11 - 2012-11-01 15:33 - Ben Dalling**

+1

**#12 - 2012-11-09 11:01 - Evgeny Zhiryakov**

+All our company

**#13 - 2012-12-05 14:43 - Ben Dalling**

Is anything going to be done about this anytime soon? This "feature" is really blocking useful reporting within my organisation. A fix so that the time estimated and time spent is calculated consistently would be greatly appreciated. I would also far prefer to update my Redmine instance from an official source rather than hack/configure my existing production system.

**#14 - 2012-12-17 13:13 - Ovidiu Stanciu**

+1

Based on Sylvain's suggestion, I've managed to fix this issue on our v2.1.4 installation.

- app/models/query.rb line 406:

```

@available_columns.insert index, QueryColumn.new(:total_spent_hours,
:sortable => "(SELECT COALESCE(SUM(hours), 0) FROM #{TimeEntry.table_name} WHERE #{TimeEntry.table_name}.issue_id = #{Issue
.table_name}.id OR #{TimeEntry.table_name}.issue_id IN (SELECT child_issue.id FROM #{Issue.table_name} child_issue WHERE
child_issue.parent_id = #{Issue.table_name}.id)",
:default_order => 'desc',
:caption => :label_spent_time
)

```

- app/helpers/queries\_helper.rb line 59 (format the decimal value):

```

elsif column.name == :spent_hours || column.name == :total_spent_hours
  sprintf "%.2f", value

```

The total spent time per issue (including time spent on child issues) is nicely show in the issues list, sorting (**taking into account only time spent on first level children**) and exporting also work.

There is a smarter way to apply this fix rather than directly modifying Redmine scripts, but this is beyond me since I have almost zero experience with Ruby and RoR.

#### #15 - 2012-12-17 16:41 - Daniel Felix

Ovidiu Stanciu wrote:

```

- app/models/query.rb line 406:
  [...]

```

Hi,

this should be also achieved with this:

```

SELECT COALESCE(SUM(hours), 0)
FROM #{TimeEntry.table_name} time_entry
LEFT JOIN #{Issue.table_name} child_issue
  ON time_entry.issue_id = child_issue.id
WHERE #{TimeEntry.table_name}.issue_id = #{Issue.table_name}.id
OR child_issue.parent_id IS NOT NULL

```

IN could be very slow in some cases with many subissues.

#### #16 - 2013-01-10 10:06 - Ben Dalling

I have edited the code on our 2.1.2 system as a workaround for this problem. Many thanks to Victor, Sylvain, Ovidiu and Daniel (authors of notes 3, 5, 14 and 15 respectively) for providing the information to do this.

I am surprised to see that this issue (which is a definite hindrance to accurate reporting) has not yet become a release candidate after seven months of being initially reported.

**#17 - 2013-01-16 10:40 - Daniel Felix**

- Target version set to Candidate for next major release

@Ben

Can you provide a combined patch for this?

**#18 - 2013-01-16 20:40 - Ben Dalling**

- File Feature11253-0.patch added

@Daniel,

I've never patched Redmine (apart from my previous hack) and I know next to nothing about Ruby, so if this is wrong, please let me know.

For this patch I downloaded the latest stable version (2.2.1), applied and tested the changes again. I then generated the attached patch file by following the guide at <http://www.redmine.org/projects/redmine/wiki/Patch>.

One side effect of this change is that any custom queries that referred to "Spent time" need to have the column re-added. If anybody can figure out a way around this, please let me know.

**#19 - 2013-02-26 14:17 - Ben Dalling**

Hi,

What else needs to be done with this feature to make it go into a scheduled release? It would be good to have this incorporated into a production version of Redmine ASAP.

Best wishes,

Ben

**#20 - 2013-02-26 16:00 - Ovidiu Stanciu**

Please take into account that both fixes in query.rb (mine and Daniel's) **only take into account time spent on direct descendants when sorting**. In case there are multiple levels, the order won't be consistent with the values displayed.

Example :

ISSUE_ID	PARENT_ID	TIME SPENT
1		
2	1	10
3		
4	3	5
5	4	10

If displaying only top level issues and sorting ascending by total time spent:

ISSUE_ID	TOTAL TIME SPENT
3	15

15 comes before 10 because the query fails to take into account the 10 hours spent on issue 5, which is a third level child.

I imagine this is pretty hard to achieve in a single query and I think there should be some recursion involved, as when calculating `:total_spent_hours` on an issue.

This should be addressed in order to achieve a complete fix.

Best regards,  
Ovidiu Stanciu

**#21 - 2013-04-21 22:09 - Henrik Leon**

+1

running 2.3.0, was really hoping for this fix.

**#22 - 2013-04-27 19:35 - Henrik Leon**

- *File `spent_time_on_parents_hack.patch` added*

My first attempt on coding in redmine (and RoR), I'm not trained in software. Patch is same as Ben's above, but changed to work on 2.3.0.

**#23 - 2013-05-10 00:23 - VD DV**

+1

I suppose that it will be the best solution to have two issue attributes for "Spent Time" that should be visible at Issues List and Issue details.

One of those two attributes might be "Spent Time" that should display time spent on single issue (without Time logs from child issues).

Another attribute might be "Cumulative Spent Time" that should contain all time logs from selected issue and all childs/grandchilds/grand...grandchilds.

**#24 - 2013-06-28 10:32 - Ben Dalling**

I've just implemented Henrik's patch on 2.3.1 and it works. It also meets Ovidiu's criteria in that a change of spent time in the sub-task of a sub-task is reflected in the parent.

**#25 - 2013-08-05 08:57 - David Lukas Müller**

I'm using Redmine 2.3.1. The fix from Ben Dalling (note-24) seems to work for the Web User Interface (HTML). Thank you Great work!

Anyway there still seems to be a minor problem within the REST API (JSON) regarding the same or a similar problem: - Currently the `estimated_hours` of the parent issue is the sum of the child issues (in REST API as well as in Web Interface). --> **good**

- But the `spent_hours` are accumulated in the Web Interface but not in the REST API --> **could be improved**

Fixing that minor inconsistency for `estimated_hours` and `spent_hours` would simplify matters, when generating project reports using the REST API (JSON) - if the project makes use of parent issues to model a Work Breakdown Structure.

In addition "VD DV"s proposal in note-23 could further simplify matters.

See #5303#note-10 for another issue regarding REST API and `spent_hours`.

Best Regards,  
David

**#26 - 2014-01-13 05:14 - Vu Hong**

I'm using Redmine 2.3.3 and tried Henrik's patch. But it didn't work and the spend time column was disappeared.  
Please help me....

UPDATED: It's working  
I forgot add spent time in option view of issues list.  
Be lucky.

**#27 - 2014-01-15 05:12 - Vu Hong**

But when I sorted a spent time column, It displayed Error 500.  
How can I fix it??  
Thanks.

**#28 - 2014-01-15 08:31 - Daniel Felix**

To solve such a bug, we need more info. Error 500 is nothing which helps us. Please provide corresponding log entries.

**#29 - 2014-01-21 14:55 - Anton Statutov**

This issue is also actual for spent time reports.

**#30 - 2014-03-17 04:22 - Maxime Vez**

+1 please fix this inconsistency

**#31 - 2014-03-17 04:40 - Toshi MARUYAMA**

- *Duplicated by Defect #16363: Spent time in list view is not the same as in single ticket view added*

**#32 - 2014-04-24 21:57 - Scott Cunningham**

- *File `spent_time_on_parents_hack_redmine251.patch` added*  
- *File `total_spent_time_view_all_issues.png` added*  
- *File `total_spent_time_issue.png` added*  
- *File `total_spent_time_details.png` added*  
- *File `total_spent_time_report.png` added*

I'm using Redmine 2.5.1 and used [Henrik Leon's](#) patch. I've uploaded my diff file as the line numbers are different (code is the same, just different line numbers).

For me this patch is useful because I use sub tasks to clearly define the steps to be done for small jobs which occur often and require specific steps per our ISO9001 procedures without creating a separate project every time. This way, a main request can be generated by a user with reporter roles and I can copy sub tasks to the request. Time logged now shows on the main request and I can filter out the tiny tasks to clearly show what requests



have been handled and at what cost in time.

If you don't already know:

- Keep a copy of your original issue\_query.rb file.
- Restart your servers - if redmine servers keep going down, then there is an error in the file.
- After installing the patch, the **Spent Time** column will be gone. You must go back into Admin -> Settings -> Task Tracking and add the column back to your table column preference.
- If you log time on the parent task, it will also add that time into the total.

Patch: attachment:spent\_time\_on\_parents\_hack\_redmine251.patch

Screenshot: attachment:total\_spent\_time\_view\_all\_issues.png

Screenshot: attachment:total\_spent\_time\_issue.png

Screenshot: attachment:total\_spent\_time\_details.png

Screenshot: attachment:total\_spent\_time\_report.png

Please note I have not heavily tested this patch. It could certainly have side effects, but for me, it looks like it's working as I wish.

### #33 - 2014-05-06 09:59 - Enmos Proje

+1

### #34 - 2014-07-31 12:31 - Okke Hendriks

+1

### #35 - 2015-02-17 16:28 - WDS D

+1

### #36 - 2015-06-26 10:34 - Malcolm Thompson

We've just installed Redmine 3.0.3 and we're having the same problem - is there a patch for this version?

### #37 - 2015-07-05 14:42 - Jean-Philippe Lang

- Subject changed from *Aggregated time spent from subtasks on the issue list* to *Total time spent from subtasks on the issue list*
- Status changed from *New* to *Closed*
- Assignee set to *Jean-Philippe Lang*
- Target version changed from *Candidate for next major release* to *3.1.0*
- Resolution set to *Fixed*

Feature added for 3.1.0. There are now 2 columns available: "Spent time" and "Total spent time". The second one aggregates time spent on the issue and its descendants.

### #38 - 2015-07-31 06:48 - Ryosuke Hirai

Thanks for this great feature, Jean-Philippe!

it seems that `issue_query.rb` @ Revision 14406 was not applied to the source code of 3.1.0. I could not find this part after downloading.  
Let me add: Having applied this part by myself, I was able to see "total spent time" column in the query list. This is a great feature in deed.

**#39 - 2015-08-01 10:13 - Mischa The Evil**

- Related to Defect #20456: 3.1-stable/3.1.0: missing commits (omitted from being merged from trunk) added

**#40 - 2015-08-01 10:14 - Mischa The Evil**

Ryosuke Hirai wrote:

*it seems that `issue_query.rb` @ Revision 14406 was not applied to the source code of 3.1.0. I could not find this part after downloading.*

Good catch ;) Redmine version:3.1.0 is indeed missing this feature due to the fact that the related commits weren't merged in source:/branches/3.1-stable when 3.1.0 got tagged. They actually still aren't. I've reported these issues in #20456.

Thanks for reporting this omission. Mischa.

**#41 - 2015-08-31 06:02 - Toshi MARUYAMA**

I have merged trunk r14406 to r14410 to 3.1-stable.

**#42 - 2015-09-19 09:30 - Jean-Philippe Lang**

- Target version changed from 3.1.0 to 3.1.1

**#43 - 2015-09-24 06:18 - Go MAEDA**

- Duplicated by Patch #14483: Add column "cumulated spent time" to issue filters added

**#44 - 2016-01-10 03:11 - Go MAEDA**

- Duplicated by Feature #14384: Add column "spent time" on list issues added

**#45 - 2017-01-15 14:22 - Go MAEDA**

- Related to Defect #17550: Spent time in exported CSV is wrong added

**#46 - 2017-01-15 14:22 - Go MAEDA**

- Related to Defect #16159: Wrong calculation of spent time field on Issues report added

**#47 - 2020-12-12 07:42 - Go MAEDA**

- Related to Defect #10527: time\_spent does not sort properly for this case added

**Files**

<code>issue_with_subtasks.png</code>	97.4 KB	2012-06-25	Florian Schwab
<code>2012-06-26-102630_345x120_screenshot.png</code>	7.71 KB	2012-06-26	Aaron Fischer
<code>Feature11253-0.patch</code>	1.54 KB	2013-01-16	Ben Dalling
<code>spent_time_on_parents_hack.patch</code>	1.06 KB	2013-04-27	Henrik Leon
<code>spent_time_on_parents_hack_redmine251.patch</code>	1.02 KB	2014-04-24	Scott Cunningham
<code>total_spent_time_view_all_issues.png</code>	20.5 KB	2014-04-24	Scott Cunningham
<code>total_spent_time_issue.png</code>	50.2 KB	2014-04-24	Scott Cunningham
<code>total_spent_time_details.png</code>	39.5 KB	2014-04-24	Scott Cunningham
<code>total_spent_time_report.png</code>	12.4 KB	2014-04-24	Scott Cunningham