

Project and task dates

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Introduction

The purpose of this document is to illustrate how the project and task dates and times correlate and reflect the assignments in a couple of simple tests.

Queries used

```
SELECT
    INV_INVESTMENTS.NAME Name
    ,INV_INVESTMENTS.CODE Code
    ,INV_INVESTMENTS.SCHEDULE_START Start
    ,INV_INVESTMENTS.SCHEDULE_FINISH Finish
FROM INV_INVESTMENTS
where INV_INVESTMENTS.ID=5001201
UNION
SELECT
    PRTASK.PRNAME Name
    ,PRTASK.PREEXTERNALID Code
    ,PRTASK.PRSTART Start
```

```

,PRTASK.PRFINISH Finish
FROM PRTASK
WHERE PRTASK.PRPROJECTID = 5001201
ORDER BY Name Desc

```

Just the project

Project created Sept 1 – Dec 31 2013

Results				
	Name	Code	Start	Finish
1	zFinish	zFinish	2013-09-01 08:00:00.000	2013-12-31 17:00:00.000

in OWB it looks the same as expected

ID	Name	Start	Finish
zFinish	zFinish	9/1/2013	12/31/2013

Project Properties - zFinish

Description
Scheduling
Resources
Key Tasks
Advanced
Notes

Project

Start: 9/1/2013 ☐ Imposed
Finish: 12/31/2013 ☐ Imposed
As-of:
Priority: 10

OK
Cancel
Help

Project and one task

Add a Task for current data one day duration

Results				
	Name	Code	Start	Finish
1	zFinish	zFinish	2013-09-01 08:00:00.000	2013-12-31 17:00:00.000
2	Task1	Task1	2013-09-27 08:00:00.000	2013-09-27 17:00:00.000

Note that the project dates remain unchanged while the task dates are one working day.

Allocate a resource to the project for the month of October: No change in dates in the database nor in OWB.

In OWB

ID	Name	Start	Finish
zFinish	zFinish	9/27/2013	9/27/2013
Task1	Task1	9/27/2013	9/27/2013

Project Properties - zFinish

Description | **Scheduling** | Resources | Key Tasks | Advanced | Notes

Project

Start: 9/27/2013 ☐ Imposed

Finish: 9/27/2013 ☐ Imposed

As-of:

Priority: 10

OK
Cancel
Help

Note that in OWB the project dates are immediately reflecting the start of the first task and the finish of the last task. When saved back to Clarity the database dates remain as they are above.

With one day assignment

Assign a resource is assigned to the task in OWB and put 8 hours of ETC on October 1st.

ID	Name	Start	Finish
zFinish	zFinish	10/1/2013	10/1/2013
Task1	Task1	10/1/2013	10/1/2013

Project Properties - zFinish

Description | **Scheduling** | Resources | Key Tasks | Advanced | Notes

Project

Start: 10/1/2013 ☐ Imposed

Finish: 10/1/2013 ☐ Imposed

As-of:

Priority: 10

OK
Cancel
Help

Note that in OWB the task dates reflect the assignments dates and the project dates again reflect the task dates.

In the database

Results Messages				
	Name	Code	Start	Finish
1	zFinish	zFinish	2013-10-01 08:00:00.000	2013-10-01 17:00:00.000
2	Task1	Task1	2013-10-01 08:00:00.000	2013-10-01 17:00:00.000

When the project is saved back to Clarity the project and task dates change to match was in OWB i.e. the working day on October 1st.

Longer assignment

Second test with assignment is to assign 12 hours in OWB so that it cannot be completed in one full day, but takes less than two full days.

ID	Name	Resource ID	Durati	ETC	
Task1	Task1	kinnunenad	1	12.00	12.0

In the database the base assignment does not create any change

Results Messages				
	Name	Code	Start	Finish
1	zFinish	zFinish	2013-10-01 08:00:00.000	2013-10-01 17:00:00.000
2	Task1	Task1	2013-10-01 08:00:00.000	2013-10-01 17:00:00.000

Only when the project is scheduled the dates changes in the database

ID	Name	Resource ID	Durati	ETC	
Task1	Task1	kinnunenad	2	12.00	6.00 6.00

Note that the loading pattern is contour

Results Messages				
	Name	Code	Start	Finish
1	zFinish	zFinish	2013-10-01 08:00:00.000	2013-10-02 17:00:00.000
2	Task1	Task1	2013-10-01 08:00:00.000	2013-10-02 17:00:00.000

Even if the work effort is less than two full days. the finish date/time for the project and task is at the end of the work shift.

Two tasks with assignments

Next test is with two tasks and the resource assigned to both of them and the tasks are dependent (finish to start)

Loading pattern contour

ID	Name	Resource ID	Durati	ETC			
						Tue	Wed
						01	02
Task1	Task1	kinnunenad	2	12.00		6.00	6.00
Task2	Task2	kinnunenad	1	3.00			3.00

Note that OWB schedules the successor the next day even though the option is not selected. (v12.1.0.1)

Name	Code	Start	Finish	ID
zFinish	zFinish	2013-10-01 08:00:00.000	2013-10-03 17:00:00.000	5001201
Task2	Task2	2013-10-03 08:00:00.000	2013-10-03 17:00:00.000	5000913
Task1	Task1	2013-10-01 08:00:00.000	2013-10-02 17:00:00.000	5000906

The database finish for both tasks is at the end of the working day.

Looking at the assignments

PRID	PRTASKID	PRSTART	PRFINISH
5000897	5000906	2013-10-01 08:00:00.000	2013-10-02 17:00:00.000
5000905	5000913	2013-10-03 08:00:00.000	2013-10-03 17:00:00.000

even they finish at the end of the working day.

Loading pattern front

The next test is the same assignments, but with the loading pattern front.

ID	Name	Resource ID	Durati	ETC	Loc			
							Tue	Wed
							01	02
							03	04
Task1	Task1	kinnunenad	2	12.00	Fro	8.00	4.00	
Task2	Task2	kinnunenad	1	3.00	Fro			3.00

The difference in OWB is that the first task is scheduled for 8 hours on the first day.

In the database

Name	Code	Start	Finish	ID
zFinish	zFinish	2013-10-01 08:00:00.000	2013-10-03 11:00:00.000	5001201
Task2	Task2	2013-10-03 08:00:00.000	2013-10-03 11:00:00.000	5000913
Task1	Task1	2013-10-01 08:00:00.000	2013-10-02 12:00:00.000	5000906

the finish dates/times reflect the work effort both for the tasks and the project with the exception of the successor starting the next day.

Looking at the assignments

```

SELECT
    [PRID]
    , [PRTASKID]

    , [PRSTART]
    , [PRFINISH]

FROM PRASSIGNMENT
Where prtaskid = 5000906
or
prtaskid =5000913

```

PRID	PRTASKID	PRSTART	PRFINISH
5000897	5000906	2013-10-01 08:00:00.000	2013-10-02 12:00:00.000
5000905	5000913	2013-10-03 08:00:00.000	2013-10-03 11:00:00.000

the assignment finish matches the work effort.

CONCLUSIONS

The project dates in these tests were the same in the database and in the GUI and OWB and appear to be independent from tasks dates when there are no assignment.

When there are resources assigned and ETC set on the assignments then the project dates reflect the dates of the tasks and assignments.

When the loading pattern contour the finish time is the finish time of the working day.

When the loading pattern is front the finish time is the time when the work effort on the assignment ends.

REVISIONS

v.01 September 27, 2013

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