

(Re-)scheduling options for ongoing projects

A-dato

High Performance Delivered

Starting points and objective

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- ❑ Scope:
 - ❑ Projects that need to be updated and re-scheduled due to (significant) changes during the execution
 - ❑ Projects that are imported or entered in LYNX “half-way” and have tasks that already have been completed

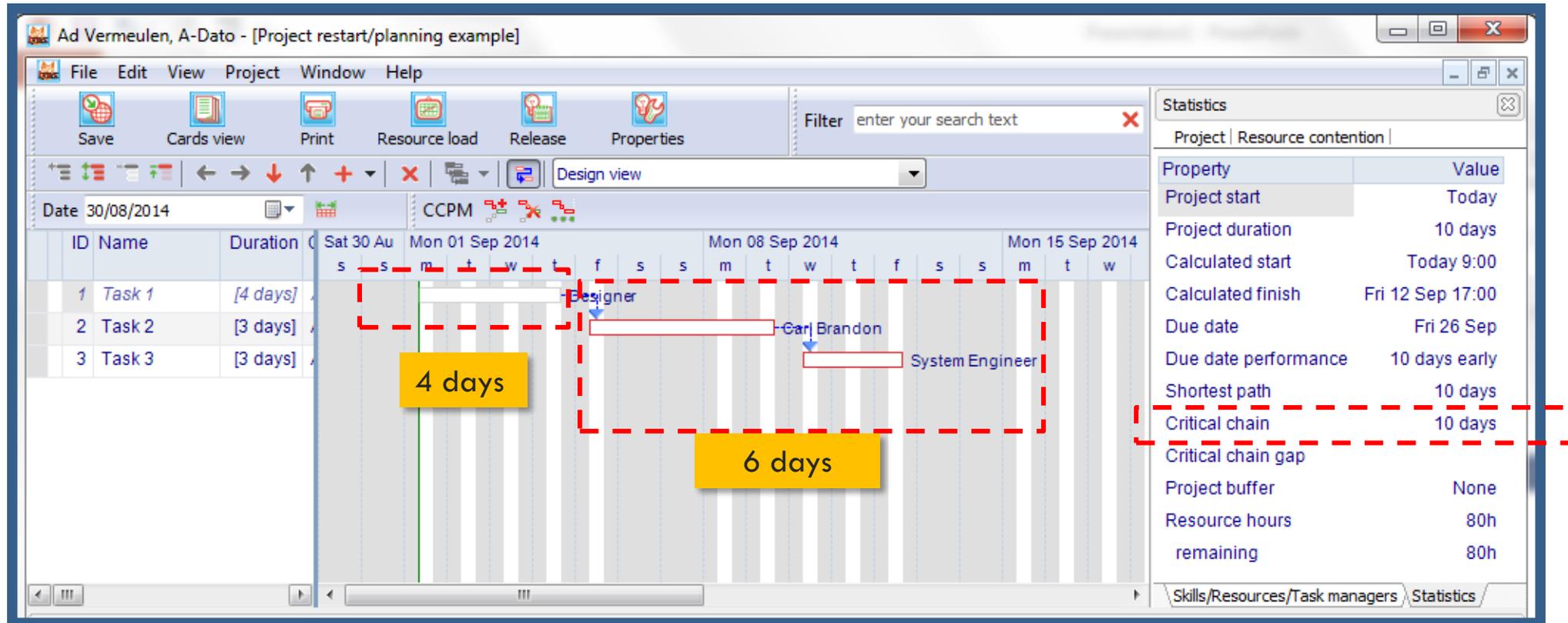
- ❑ Objective:
 - ❑ To recalculate a realistic and appropriate buffer-size
 - ❑ To ensure a correct status and position of the project in the fever chart in terms of:
 - Progress
 - Buffer consumption

- ❑ Behaviour is similar for Project Buffers and Milestone buffers

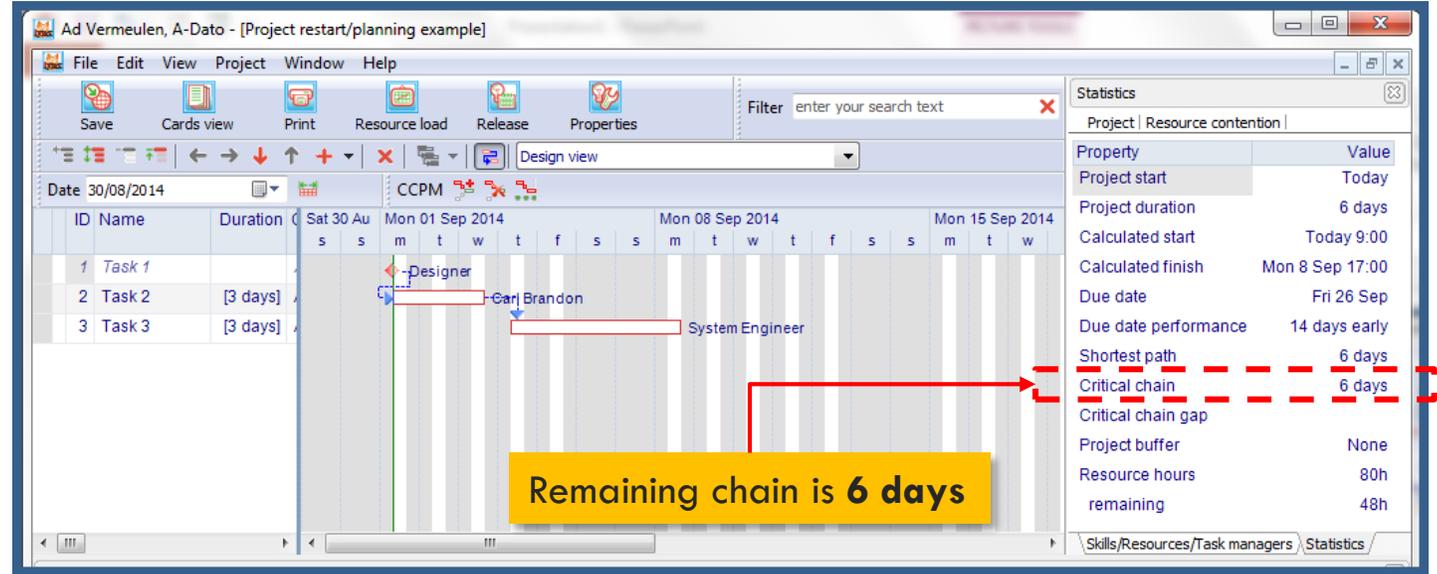
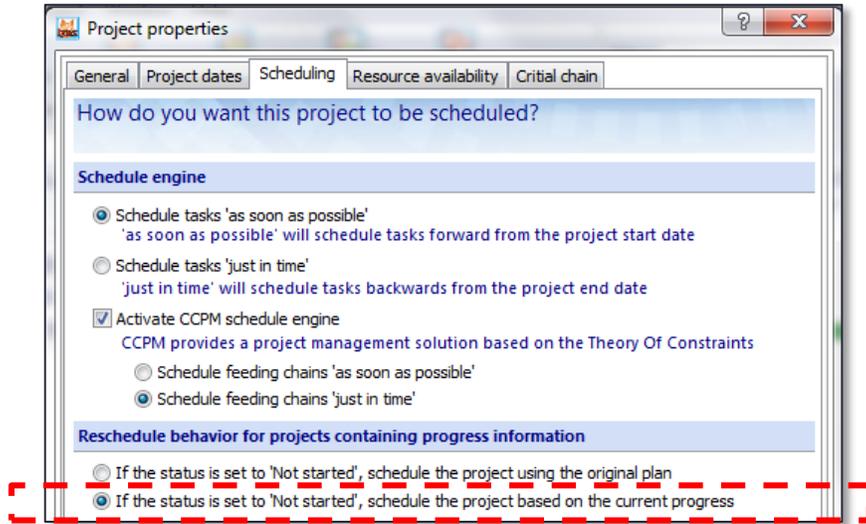
Example:

Project of 10 days, of which 4 days have been completed and remaining chain is 6 days

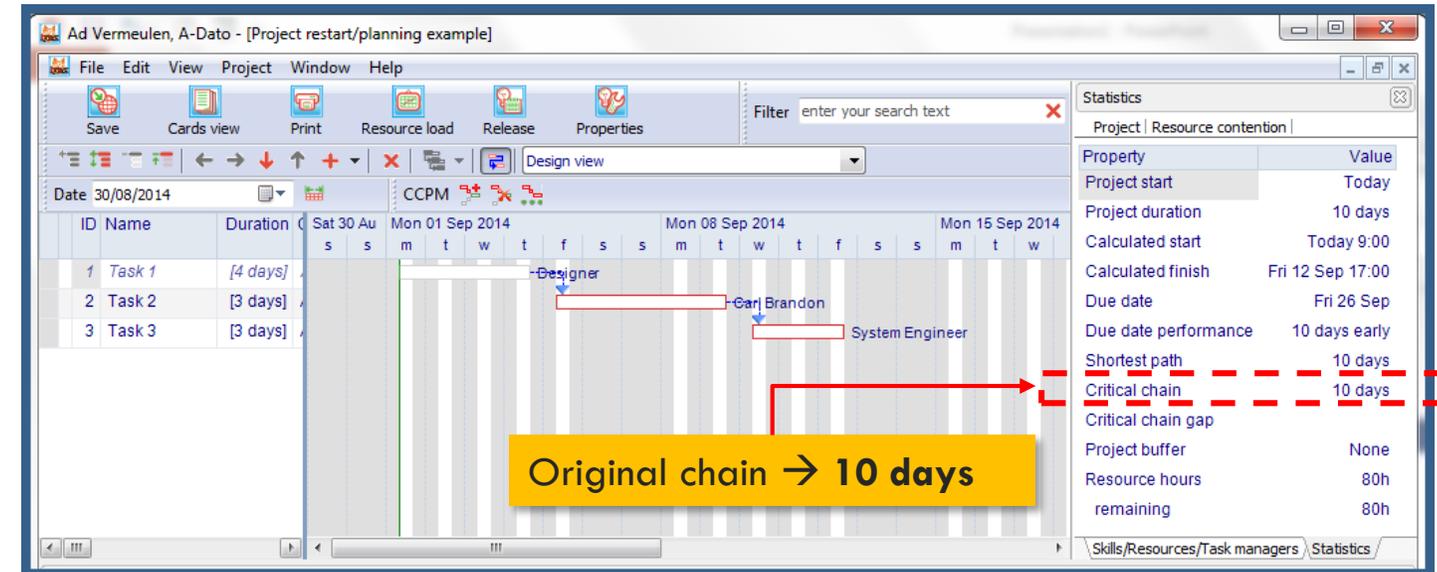
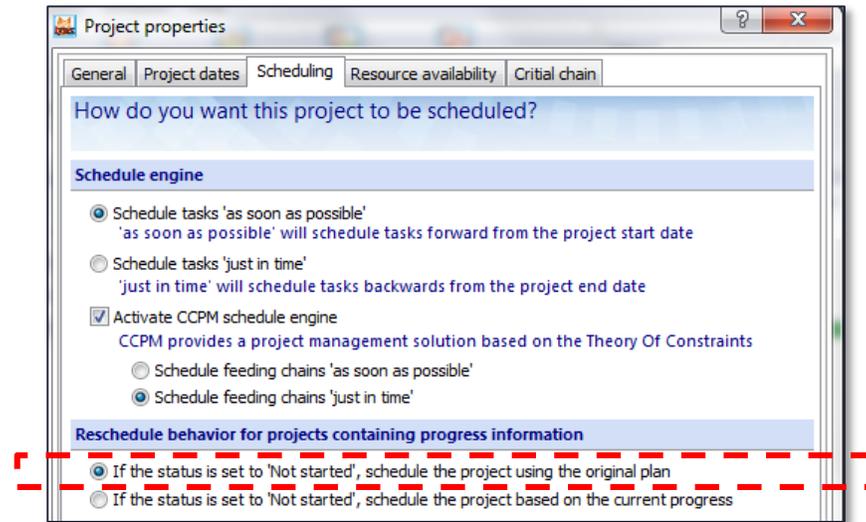
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OPTION A: Buffers are (re-)calculated based on the **remaining** length of feeding and critical chains (excluding the length of completed tasks)



OPTION B: Consider the **original** length of the chain(s) including already **completed** steps in the **original plan**, when calculating the new buffer sizes



Option A

Recalculate project and buffer sizes

Based on the critical chain for remaining tasks only!

Option A: Re-schedule with remaining chain only

The remaining critical chain is 6 days only → in case of a project buffer size of 50 % of the CC, LYNX will insert a project buffer of 3 days.

Property	Value
Project start	Today
Project duration	6 days
Calculated start	Today 9:00
Calculated finish	Mon 8 Sep 17:00
Due date	Thu 11 Sep
Due date performance	3 days early
Shortest path	6 days
Critical chain	6 days

Project is released and buffer status column is inserted.

ID	Name	Buffers
1	Task 1	
2	Task 2	0%
3	Task 3	0%
4	Project buffer	0%

The updated end-date has not been set yet. In this example there is no progress yet and no penetration.

Ref.	Description	PM	Status	Start	End	Expected finish	CCPM	Performance
	Project restart/planning example	AV	Released	Today	Thu 11 Sep	Thu 11 Sep	clc/cc: 0d/6d pbp/pb: 0d/3d	0% 0%

Position the end point of the buffer by setting a (new) due date.

The due-date has been set at 10 September.
This implies a buffer consumption of 33 %

The screenshot shows the LYNX software interface. The main window displays a Gantt chart with tasks and resources. A feeding chain is highlighted in red, starting from 'Task 3' and ending at 'Project buffer'. A red arrow points from the 'Due date' field in the statistics panel to the end of the feeding chain. A dialog box titled 'Enter new duration of the feeding chain' is open, showing a duration of 6 days. The statistics panel on the right provides project details.

Property	Value
Project start	Today
Project duration remaining	6 days
Calculated start	Today 9:00
Calculated finish	Mon 8 Sep 17:00
Due date	Wed 10 Sep
Due date performance	2 days early
Shortest path	6 days
Critical chain	6 days
Current longest chain	6 days
Critical chain gap	
Project buffer	3 days

In this scenario, LYNX assumes a length of the Critical Chain of 6 days.

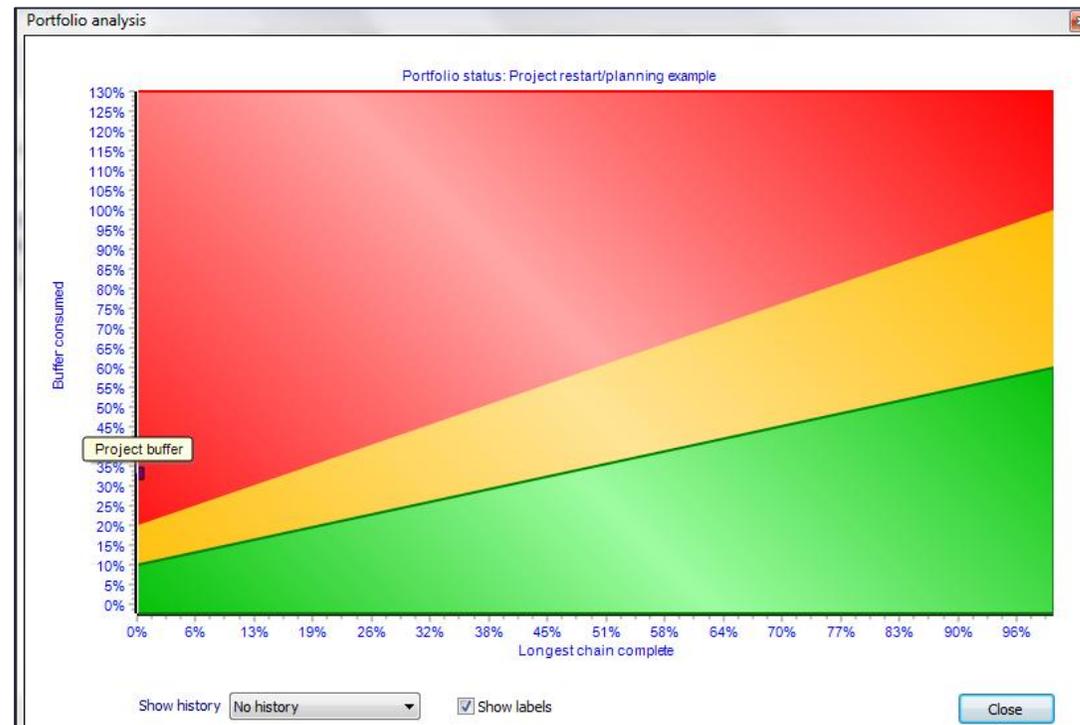
After re-releasing the project....

What is the effect in the buffer status monitoring?

Ref.	Description	PM	Status	Start	End	Expected finish	CCPM	Performance
	Project restart/planning example resource hours: 80h remaining: 48h - 60%	AV	Released	Today	Wed 10 Sep	Thu 11 Sep	clc/cc: 0d/6d pbp/pb: 1d/3d	0% 33%

The buffer status shows 33 % buffer consumption (1 day) but **NO PROGRESS**.

This is not a reflection of reality since the project has made **4 days progress**



Change the feeding chain duration to show progress

Typically the length of the original Critical Chain is set

Currently the function “**Setting the feeding chain duration**” is available only for users with the role “**Workspace Owner**” (Master scheduler or portfolio manager).

If you have the role of project manager, contact your portfolio manager.

The image shows two screenshots of the Primavera software interface. The top screenshot shows the 'Set feeding chain duration' menu option highlighted. The bottom screenshot shows the 'Enter new duration of the feeding chain' dialog box with '10 days' entered in the 'Duration' field. A yellow box at the bottom left contains the text: 'Change the length of the feeding chain to 10 days.'

Project Properties Table:

Property	Value
Project start	Today
Project duration	
remaining	6 days
Calculated start	Today 9:00
Calculated finish	Mon 8 Sep 17:00
Due date	Wed 10 Sep
Due date performance	2 days early
Shortest path	6 days

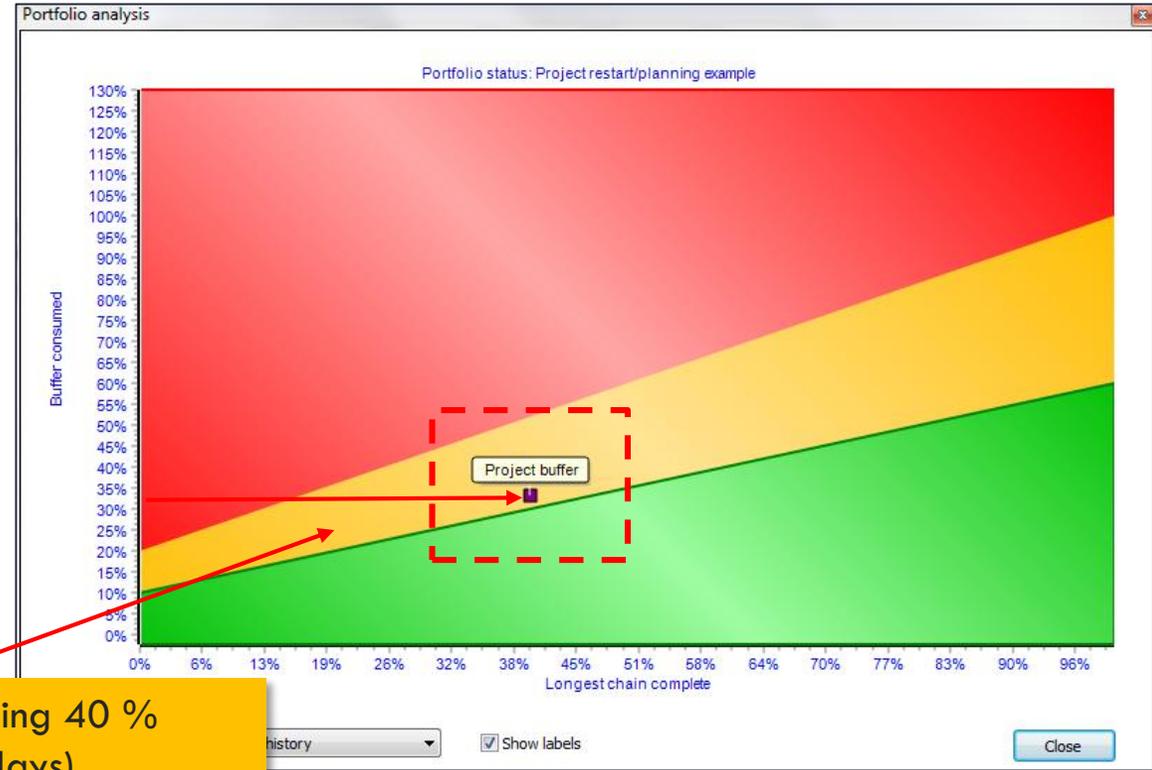
Statistics Table:

Property	Value
Project start	Today
Project duration	
remaining	6 days
Calculated start	Today 9:00
Calculated finish	Mon 8 Sep 17:00
Due date	Wed 10 Sep
Due date performance	2 days early
Shortest path	6 days
Longest chain	6 days
Longest chain gap	6 days
Project buffer	3 days

Result after updating the "feeding chain"

Ref.	Description	PM	Status	Start	End	Expected finish	CCPM Performance
	Project restart/planning example resource hours: 80h remaining: 48h - 60%	AV	Released	Today	Wed 10 Sep	Thu 11 Sep	clc/cc: 4d/10d pbp/pb: 1d/3d 40% 33%

The result is that the rescheduled project is showing a realistic progress and buffer consumption.

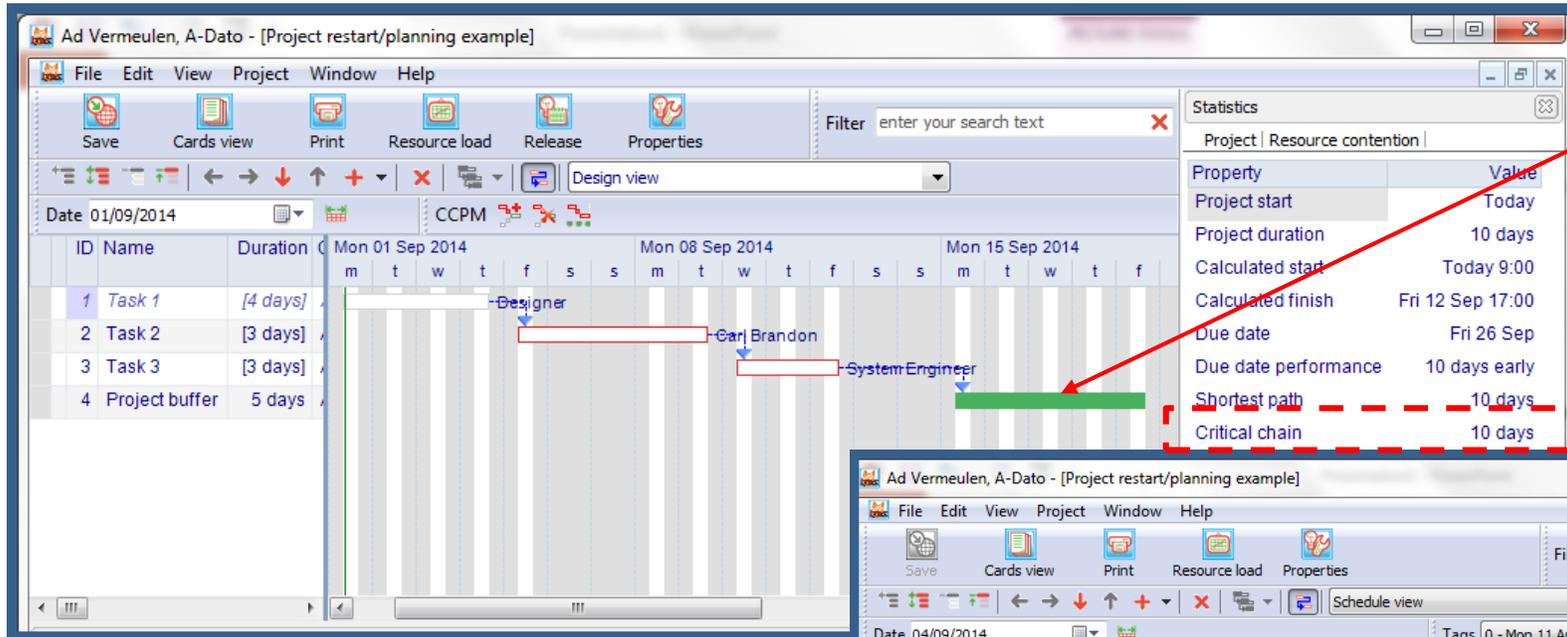


The project is now showing 40 % progress (4 out of 10 days)

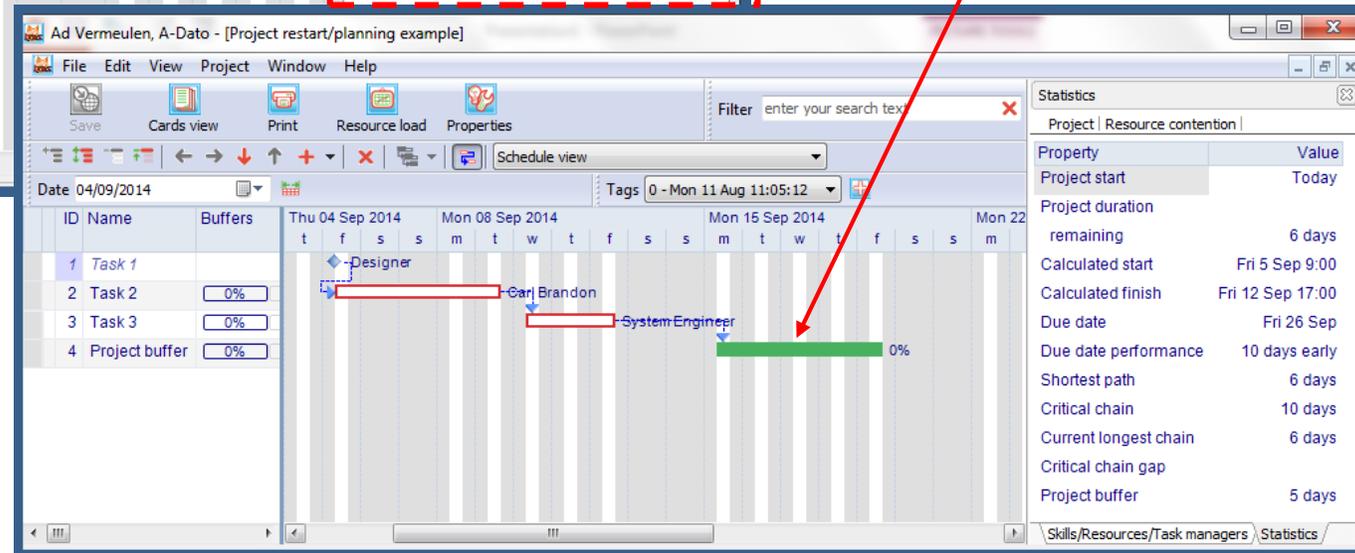
Option B

Recalculate project and buffer sizes

Based on the original length of the critical chain (including completed tasks)



LYNX calculates a buffer of 5 days based on a original critical chain of 10 days

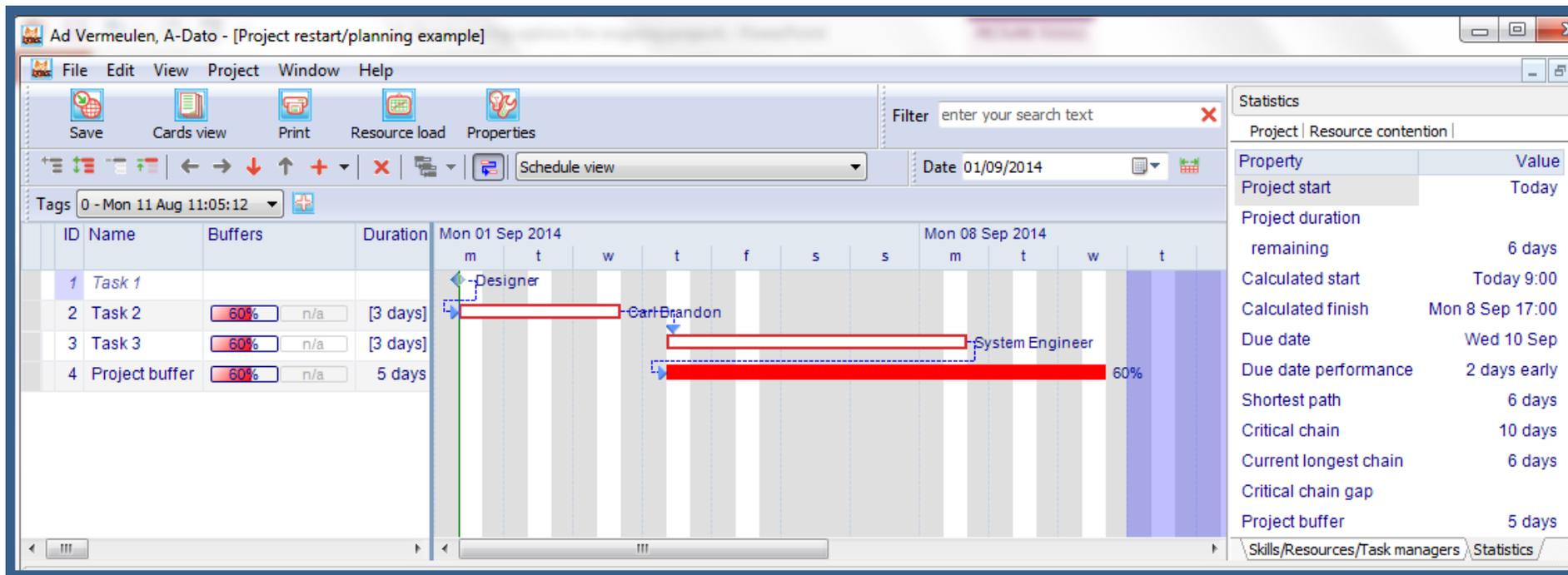


My activities Messages (0) Project portfolio Progress Calendar Configure

Filter Show all Not started Released

Ref.	Description	PM	Status	Start	End	Expected finish	CCPM Performance
	Project restart/planning example	AV	Released	Today	Fri 26 Sep	Wed 17 Sep	clc/cc: 4d/10d pbp/pb: 0d/5d
	resource hours: 80h remaining: 48h - 60%						40% 0%

Also it will show 4 days progress after releasing the project (again).



My activities Messages (0) Project portfolio Progress Calendar Configure

Filter Show all Not started Released

Ref.	Description	PM	Status	Start	End	Expected finish	CCPM	Performance
	Project restart/planning example	AV	Released	Today	Wed 10 Sep	Thu 11 Sep	clc/cc: 4d/10d pbp/pb: 3d/5d	<input type="checkbox"/> 40% <input checked="" type="checkbox"/> 60%

resource hours: 80h remaining: 48h - 60%

If the end-date the same and again 10 September, the progress is 40 % (the same) but the buffer-consumption is now 60 %

