

# PROJECT RESCHEDULING BEHAVIOUR

D1 Project – Training Example

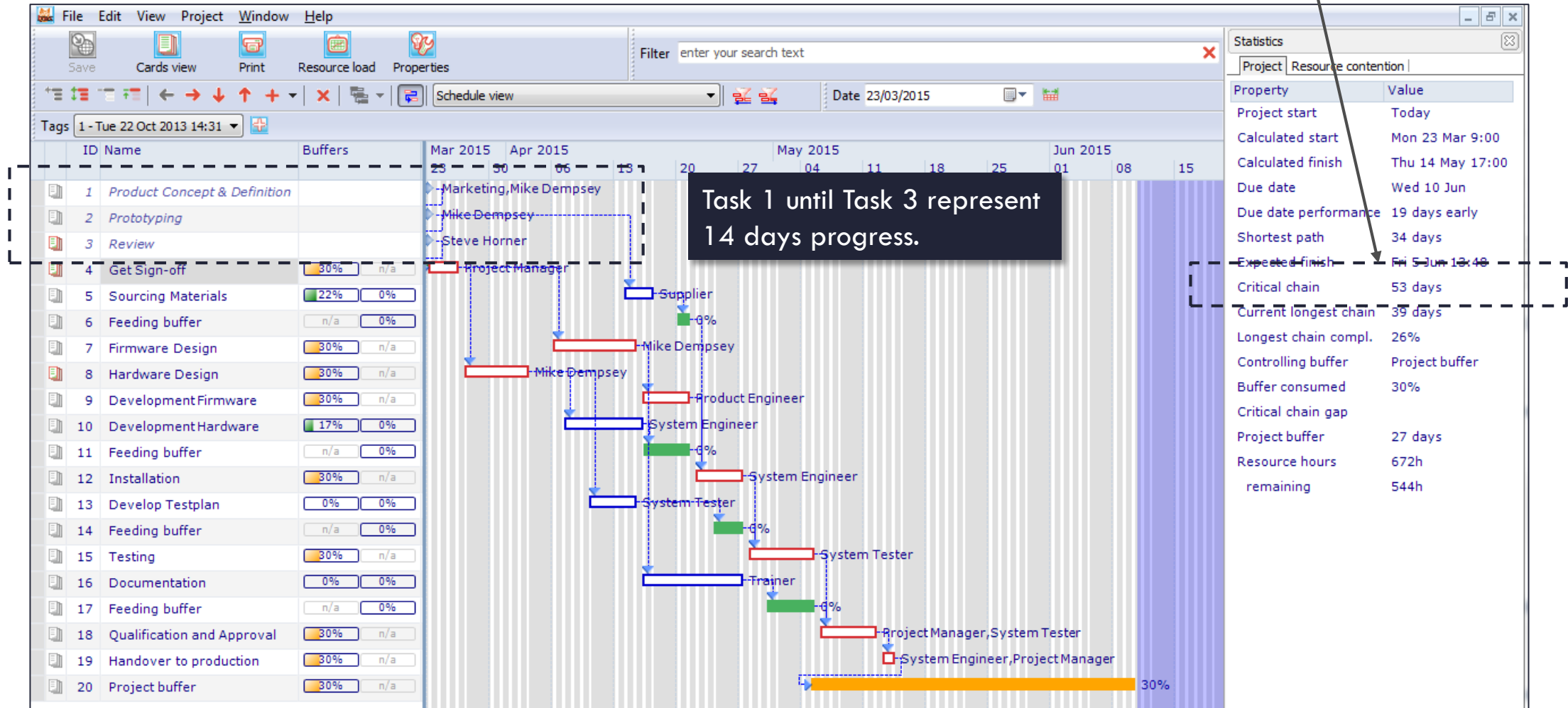
*Rescheduling example “based on current progress”*

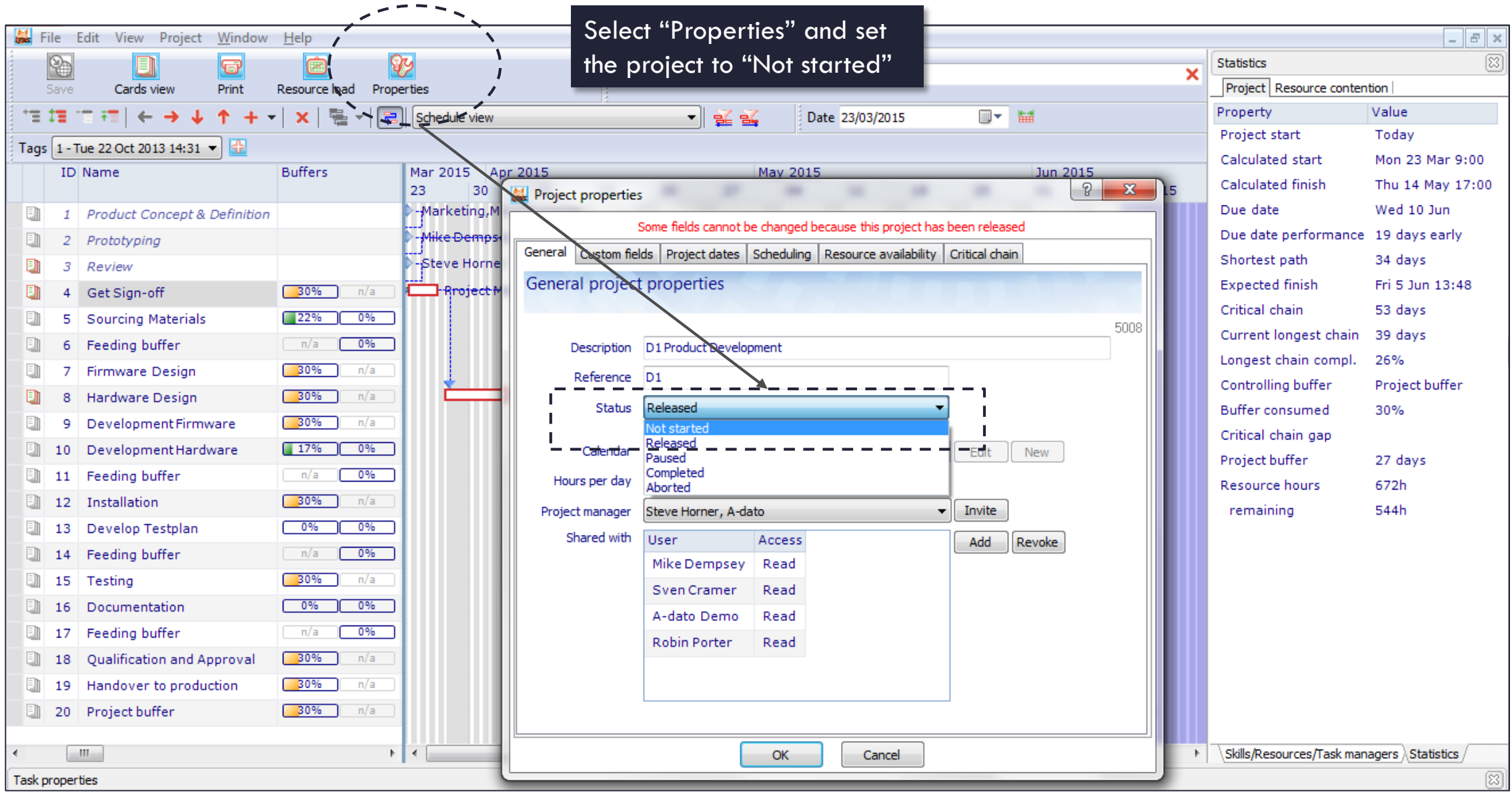
**A-dato**

High Performance Delivered

My activities	Messages (0)	Project portfolio	Active tasks	Calendar	Configure			
Filter  Show all  Not started  Released								
Ref.	Description	PM	Status	Start	End	Expected finish	CCPM	Performance
D1	<b>D1 Product Development</b>	SH	Released	Today	Wed 10 Jun	Fri 5 Jun	clc/cc: 14d/53d pbp/pb: 8d/27d	 26%  30%
resource hours: 672h remaining: 544h - 80%								

14 days progress has been achieved (26%). The Critical Chain duration is 53 days.





Select "Properties" and set the project to "Not started"

Some fields cannot be changed because this project has been released

General Custom fields Project dates Scheduling Resource availability Critical chain

### General project properties

Description: D1 Product Development 5008

Reference: D1

Status: **Released** (dropdown menu open showing: Released, Not started, Paused, Completed, Aborted)

Calendar: Released

Hours per day: Paused

Project manager: Steve Horner, A-dato

Shared with:

User	Access
Mike Dempsey	Read
Sven Cramer	Read
A-dato Demo	Read
Robin Porter	Read

Buttons: Edit, New, Invite, Add, Revoke, OK, Cancel

### Statistics

Project: Resource contention

Property	Value
Project start	Today
Calculated start	Mon 23 Mar 9:00
Calculated finish	Thu 14 May 17:00
Due date	Wed 10 Jun
Due date performance	19 days early
Shortest path	34 days
Expected finish	Fri 5 Jun 13:48
Critical chain	53 days
Current longest chain	39 days
Longest chain compl.	26%
Controlling buffer	Project buffer
Buffer consumed	30%
Critical chain gap	
Project buffer	27 days
Resource hours remaining	672h 544h

Tags: 1 - Tue 22 Oct 2013 14:31

ID	Name	Buffers	Mar 2015	Apr 2015	May 2015	Jun 2015
1	Product Concept & Definition					
2	Prototyping					
3	Review					
4	Get Sign-off	30% n/a				
5	Sourcing Materials	22% 0%				
6	Feeding buffer	n/a 0%				
7	Firmware Design	30% n/a				
8	Hardware Design	30% n/a				
9	Development Firmware	30% n/a				
10	Development Hardware	17% 0%				
11	Feeding buffer	n/a 0%				
12	Installation	30% n/a				
13	Develop Testplan	0% 0%				
14	Feeding buffer	n/a 0%				
15	Testing	30% n/a				
16	Documentation	0% 0%				
17	Feeding buffer	n/a 0%				
18	Qualification and Approval	30% n/a				
19	Handover to production	30% n/a				
20	Project buffer	30% n/a				

Task properties

Skills/Resources/Task managers Statistics

The screenshot displays a project management application with a Gantt chart view. The main window shows a task list with columns for ID, Name, Size, Duration, and a calendar view for March and April 2015. A 'Properties' button in the top toolbar is circled, with an arrow pointing to the 'Project properties' dialog box. The dialog box is open to the 'Scheduling' tab, showing options for the schedule engine and rescheduling behavior. A 'Statistics' panel on the right provides key project metrics.

**Project Properties Dialog - Scheduling Tab:**

How do you want this project to be scheduled?

**Schedule engine**

- Schedule tasks 'as soon as possible'  
'as soon as possible' will schedule tasks forward from the project start date
- Schedule tasks 'just in time'  
'just in time' will schedule tasks backwards from the project end date
- Activate CCPM schedule engine  
CCPM provides a project management solution based on the Theory Of Constraints
  - Schedule feeding chains 'as soon as possible'
  - Schedule feeding chains 'just in time'

**Reschedule behavior for projects containing progress information**

- If the status is set to 'Not started', schedule the project using the original plan
- If the status is set to 'Not started', schedule the project based on the current progress

**Multi project behavior**

Buttons: OK, Cancel

LYNX will exclude the 14 days from the 53 days → 39 days CC remaining.

Verify the "Rescheduling Behaviour"

Property	Value
Project start	Today
Calculated start	Mon 23 Mar 9:00
Calculated finish	Thu 14 May 17:00
Due date	Wed 10 Jun
Due date performance	19 days early
<b>Shortest path</b>	<b>34 days</b>
<b>Critical chain</b>	<b>39 days</b>
<b>Critical chain gap</b>	<b>0 days</b>
Project buffer	27 days
	672h
	544h

The screenshot displays the LYNX software interface. At the top, there is a toolbar with icons for Save, Cards view, Print, Resource load, Release, and Properties. Below this is a search filter and a 'Design view' dropdown. The main area shows a Gantt chart for a project starting on 23/03/2015. The chart is overlaid on a task list table.

ID	Name	Size	Duration	CC
1	Product Concept & Definition		[4 days]	A
2	Prototyping		[6 days]	A
3	Review		[4 days]	A
4	Get Sign-off		[4 days]	A
5	Sourcing Materials		[4 days]	A
6	Feeding buffer		2 days	A
7	Firmware Design		[8 days]	A
8	Hardware Design		[6 days]	A
9	Development Firmware		[4 days]	A
10	Development Hardware		[7 days]	A
11	Feeding buffer		3,5 days	A
12	Installation		[4 days]	A
13	Develop Testplan		[4 days]	A
14	Feeding buffer		2 days	A
15	Testing		[6 days]	A
16	Documentation		[8 days]	A
17	Feeding buffer		4 days	A
18	Qualification and Approval		[5 days]	A
19	Handover to production		[2 days]	A
20	Project buffer		27 days	A

The 'Project properties' dialog box is open to the 'Scheduling' tab. It contains the following sections:

- How do you want this project to be scheduled?**
- Schedule engine**
  - Schedule tasks 'as soon as possible' (selected)
  - Schedule tasks 'just in time'
  - Activate CCPM schedule engine
  - Schedule feeding chains 'as soon as possible'
  - Schedule feeding chains 'just in time'
- Reschedule behavior for projects containing progress information**
  - If the status is set to 'Not started', schedule the project using the original plan
  - If the status is set to 'Not started', schedule the project based on the current progress
- Multi project behavior**

The 'Statistics' window in the top right corner shows the following data:

Property	Value
Project start	Today
Calculated start	Mon 23 Mar 9:00
Calculated finish	Wed 3 Jun 17:00
Due date	Wed 10 Jun
Due date performance	5 days early
Shortest path	48 days
Critical chain	53 days
Critical chain gap	
Project buffer	27 days
Resource hours	672h
remaining	672h

In case the "use the original plan" behaviour is selected LYNX will maintain the CC of 53 days.

In this example we continue with "scheduling based on current progress"

# Update your project as needed

6

The screenshot displays a project management application window with a menu bar (File, Edit, View, Project, Window, Help) and a toolbar containing icons for Save, Cards view, Print, Resource load, Release, and Properties. A search filter is present with the text 'enter your search text'. The main area shows a Gantt chart for a project with tasks listed on the left. The tasks are:

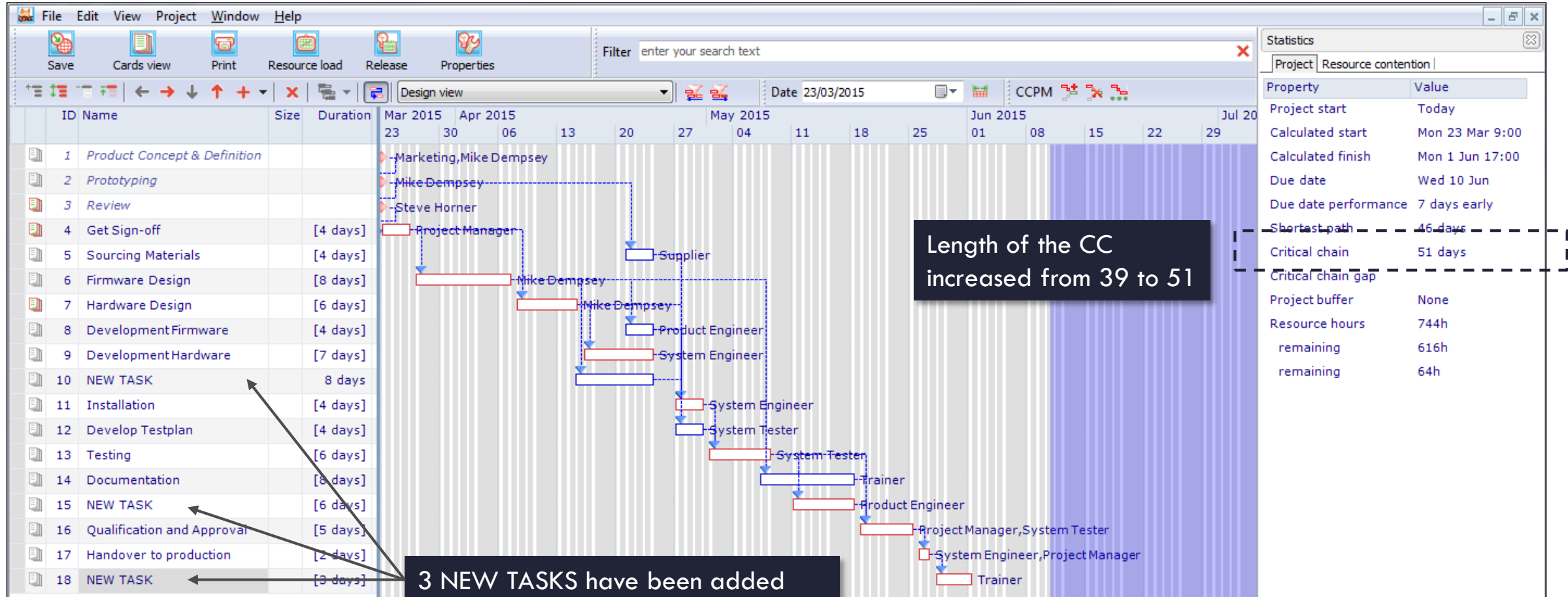
ID	Name	Size	Duration	Color	Start	End	Resources
1	Product Concept & Definition			A	Mar 23	Apr 06	Marketing, Mike Dempsey
2	Prototyping			A	Apr 06	Apr 13	Mike Dempsey
3	Review			A	Apr 13	Apr 20	Steve Horner
4	Get Sign-off		[4 days]	A	Apr 20	Apr 27	Project Manager
5	Sourcing Materials		[4 days]	A	Apr 27	May 04	Supplier
6	Firmware Design		[8 days]	A	Apr 27	May 11	Mike Dempsey
7	Hardware Design		[6 days]	A	Apr 27	May 18	Mike Dempsey
8	Development Firmware		[4 days]	A	May 18	May 25	Product Engineer
9	Development Hardware		[7 days]	A	May 18	May 25	System Engineer
10	Installation		[4 days]	A	May 25	Jun 01	System Engineer
11	Develop Testplan		[4 days]	A	May 25	Jun 01	System Tester
12	Testing		[6 days]	A	Jun 01	Jun 08	System Tester
13	Documentation			A	Jun 08	Jun 15	Project Manager, System Tester
14	Qualification and Approval			A	Jun 15	Jun 22	System Engineer, Project Manager
15	Handover to production			A	Jun 22	Jun 29	

A dialog box titled 'Remove buffers' is open, asking 'Which buffers should be removed?'. It has three checked options: 'Remove feeding buffers', 'Remove milestone buffers', and 'Remove project buffers'. The dialog has 'OK' and 'Cancel' buttons.

**If you want to add (several tasks), you can easily remove the buffers and recalculate and insert later again.**

# Adding tasks

7



The new plan after recalculating and inserting buffers again.

Change due date as is required!

Past progress from already completed tasks is not included yet!

Ref.	Description	PM	Status	Start	End	Expected finish	CCPM Performance
D1	<b>D1 Product Development</b>	SH	Released	Today	Thu 25 Jun	Tue 30 Jun	clc/cc: 0d/51d pbp/pb: 8d/26d 0% 31%

resource hours: 744h remaining: 616h - 82%



# Adding past progress via "Set feeding chain duration"

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.

14 days progress was already achieved. To include progress add  $14 + 51 = 65$  days.

Enter new duration of the feeding chain

Duration 65

Property	Value
Project start	Today
Calculated start	Mon 23 Mar 9:00
Calculated finish	Mon 1 Jun 17:00
Due date	Thu 25 Jun
Due date performance	18 days early
Shortest path	46 days
Expected finish	Tue 30 Jun 12:12
Critical chain	51 days
Current longest chain	51 days
Longest chain compl.	0%
Controlling buffer	Project buffer
Buffer consumed	31%
Critical chain gap	
Project buffer	26 days
Resource hours	744h
remaining	616h
Unassigned hours	64h
remaining	64h

# Rescheduling result for project D1.

