LYNX BUFFER MANAGEMENT

Project Buffer, Feeding Buffer(s), Milestone Buffer(s)



Buffer types in LYNX projects

- Project Buffer
 - There is only 1 project buffer
- **D** Feeding Buffers
 - There can be multiple feeding chains
 - Each feeding chain can have it's own feeding buffer
- Milestone Buffers
 - A deadline defined for a task is considered to be a "milestone"
 - The chain leading to a task with milestone will have a milestone buffer
- **D** Resource Buffers
 - Applied during the "staggering process" not described in the document



Example Project before inserting buffers

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	↑ + - × ਵਾ		<u>.</u>	Date 05/08/2013		Property	Value
ID Name	Duration Aug 2013		Sep 2013	3	0ct 2013	Project start	Sun 4 Aug
	05	12 19	26 02	September	23 30	Calculated start	Mon 5 Aug 9:00
1 Validation of Concept	[6 days]	-Design		September		Calculated finish	Fri 20 Sep 17:00
2 Develop Part 1	[3 days]	-Development				Due date	Fri 1 Nov
3 Build Part 1	[3 days]	Engine	eering			Due date performance	30 days early
4 Integration 1	[5 days]		Engineering Developmer	t		Project duration	35 days
5 Review of Concept	[4 days]	- Development				Shortest path	30 days
6 External design	[4 days]	Ě	-Design			Critical chain	35 days
7 Build 2	[2 days]		Engineering			Critical chain gap	
8 Integration 2	[3 days]		evelop	ment,Engineering		Project buffer	None
9 Assembly	[4 days]			- Engineering		Resource hours	480h
10 Create Documentation	[3 days]			-Design	• • • • • • • • • • • • • • • • • • •	Work remaining	480h
11 Test	[6 days]			tevelo	pment		
12 Release	[3 days]				Design,Development,Engineering		
4						Decourse (Skille) Statistic	
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Task proper des							
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"Views" dropdown box





Buffer controls

Buffercontrols are placed here



Result for example project

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	1	Validation of Concept	[6 days]	05 1	2	19	26	02	09	16	23	30	07	14	21
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	5	Milestone buffer	4.3 days												
	6	Review of Concept	[4 days]		Devel opm	nent									
	7	External design	[4 days]			Đesi	gn _				<mark>7</mark> Feedir	ng buf	fers 👘		
	8	Feeding buffer	4 days			7	the second secon								
	9	Build 2	[2 days]				<u> </u>	Engineering							
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	11	Assembly	[4 days]					Ľ.	📑 E ngine	ering					
	12	Create Documentation	[3 days]						Ľ		IN	Proje	et buffe		
	13	Feeding buffer	1.5 days							Ě.		Proje			
	14	Test	[6 days]						Č	-Dev	elopment				
	15	Release	[3 days]							Ľ	- Des ign,Deve	elopment,	gineering		
	16	Project buffer	17.5 days								Ň				



Release project

Change Status "Not started" \rightarrow "Released" (possible for users with role "space owner")





Result of releasing the Example Project





Time → + 3 days (Monday 5 August → Thursday 8 August 9 AM)

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No progress has been made yet on any task on the Critical Chain



Time \rightarrow + 5 days (3 + 2) (Monday 5 August \rightarrow Monday 12 August 9 AM)





How does LYNX show progress?







Time → + 6 days (Monday 5 August → Tuesday 13 August 9 AM)

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Ad Vermeulen, A-Dato - [Design Equipment 2.1 - by skill + MS buffer + Progress] 👪 File Edit View Project <u>W</u>indow <u>H</u>elp 9 gy. 6 Filter enter your search text Print Resource load Properties 1 -*= **!**= Ŧ. (← → ↓ ↑ + ▼ × 詰 ▼ 同 ctive task viev -Date 12/08/2013 Milestone Buffer penetration = 29 %) ID Name Buffers Aug 2013 Sep 2013 12 19 26 02 09 Project Buffer Penetration = 23 % 1 Validation of Concept 📑 - Jack Morgan 23% 29% n/a -Development 2 Develop Part 1 23% 29% n/a 3 Build Part 1 23% 29% n/a -Engineering 4 Integration 1 23% 29% n/a -Development, Engineering 5 Milestone buffer n/a **29%** n/a 6 Review of Concept 23% n/a 0% Developmer -Design 7 External design 0% n/a 0% 8 Feeding buffer n/a n/a 0% 23% n/a n/a -Engineering 9 Build 2 23% n/a n/a 10 Integration 2 -Engineering,Development 23% n/a n/a - Engineering 11 Assembly 6% n/a 0% 12 Create Documentation Design 13 Feeding buffer n/a n/a 0% 14 Test 23% n/a n/a Development 15 Release 23% n/a n/a Engineering, Development, Design 16 Project buffer 23% n/a n/a



How does LYNX show progress?

LYNX will display the buffer with the Earliest Due-Date in the project portfolio tab



Milestone Buffer Feeding Chain View

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	TD.		T + ▼ X ⊑		Milestone buffer [5],	Feeding	chain of	Critical chain view
	10	Nome	Durrers		12 19	26	02	Baseline view
	1	Validation of Concept	23% 29% n/a		- Jack Morgan			Active + baseline combined
	2	Develop Part 1	23% 29% n/a		-Devel	opment		
	3	Build Part 1	23% 29% n/a			_ f€	ngineering	
	4	Integration 1	23% 29% n/a			C		evelopment,Engineering
	5	Milestone buffer	n/a 29% n/a				•	29%



LYNX shows the current longest milestone feeding chain

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	3	Build Part 1	34% 76% n/a]		tengin	eering		
	4	Integration 1	34% 76% n/a			Ľ	-Deve	opment,Engi	neering
	5	Milestone buffer	n/a 76% n/a				769	6	
	6	Review of Concept	34% n/a 0%) 🗖	Car	l Brandon			
						Duration of	of task 6	is 2 da	ys longer. Task
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Effect "Automatic Buffer Consumption" when inserting buffers - 0

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Recalculate buffers

Controlling Buffer Information







Multi-Project Progress information Buffer filter added to Project Portfolio View

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	D1	D1 Product	Development		Show all be	uffers	6 Apr	Thu 9 Jul	Fri 10 Jul	clc/cc: 14d/53d	26%		
		resource hours	: 672h remaining: 5	44h - 80%			'			pop/pol 12// 0/ 2/ 0	43%		
	D2	D2 Product	Development		AV	Released	Sun 26 Apr	Thu 24 Sep	Mon 21 Sep	clc/cc: 11,5d/83d pbp/pb: 9,5d/42d	14%		
		resource hours	: 1448h remaining:	1308h - 90%							2376		
	WP1	New Heatin	g Control		SC	Released	Sun 26 Apr	Mon 29 Jun	Thu 25 Jun	clc/cc: 3,3d/34d pbp/pb: 1,8d/17d	10%		
		resource hours	: 566h remaining: 5	02h - 88%							1078		
	D3	D3 Product	development		AV	Released	Today	Fri 3 Jul	Thu 25 Jun	clc/cc: 0d/29d pbp/pb: 0d/15d	0%		
		resource hours	: 520h remaining: 5	20h - 100%							0,0		



Show all buffers

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D2	D2 Product Develo	pment emaining: 1308	8h - 90%	AV	Released	Sun 26 Apr	Thu 24 Sep	Wed 30 Sep	clc/cc: 11,5d/83d pbb/pb: 16,5d/42d	14% 39%			
D3	D3 Product develo	pment maining: 520h	-100%	AV	Released	Mon 27 Apr	Fri 3 Jul	Mon 6 Jul	clc/cc: 0d/29d pbp/pb: 7d/15d	0% 47%	0%	0% 27%	



Progress chart Same Filters as in the Project Portfolio view



