

LHCOPN update

Taipei, 13th of March 2016
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Update

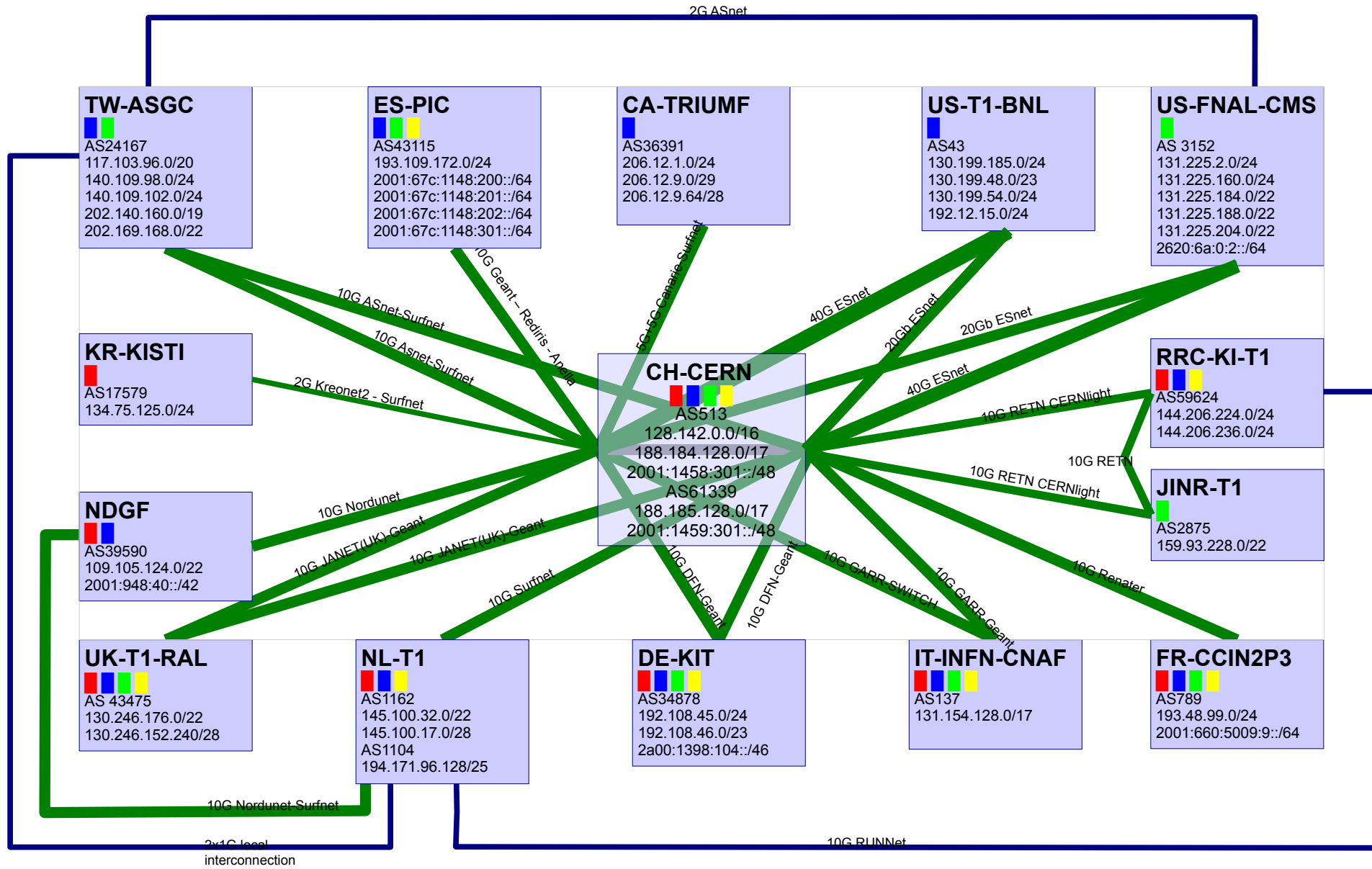
CH-CERN

- Prefix reduction didn't happen because of no change in data distribution model
- CERN datacentre architecture being revamped:
 - unified infrastructure to remove bottlenecks
 - increased bandwidth to and inside remote datacentre
 - multi domain support

Update

[Input from Tier1s in the audience]

Map



	T0-T1 and T1-T1 traffic		= Alice		= Atlas
	T1-T1 traffic only		= CMS		= LHCb
	Not deployed yet				
	(thick) >=10Gbps				
	(thin) <10Gbps				

p2p prefix: 192.16.166.0/24 - 2001:1458:302::/48
 edoardo.martelli@cern.ch 20160229



LHC Schedule 2016 Q1-Q2

	Jan				Feb				Mar				
Wk	1	2	3	4	5	6	7	8	9	10	11	12	13
Mo	4	11	18	25	1	8	15	22	29	7	14	21	Easter Mon 28
Tu													
We													
Th				Year end technical stop						Powering tests			
Fr								DSO test				Machine checkout	G. Friday
Sa													
Su													

	Apr			May				June					
Wk	14	15	16	17	18	19	20	21	22	23	24	25	26
Mo	4	11	18	25	2	9	Whit 16	23	30	6	13	20	27
Tu							VdM		beta* 2.5 km dev.				
We										TS1			
Th	Recommissioning with beam				Ascension								
Fr					May Day comp				MD 1				
Sa													
Su				1st May	Intensity ramp-up Scrubbing as required								

- Technical Stop
- Recommissioning with beam
- Scrubbing (indicative - dates to be established)
- Machine development
- Special physics runs (indicative - schedule to be established)

https://espace.cern.ch/be-dep/BEDepartmentalDocuments/BE/LHC_Schedule_2016.pdf

LHC Schedule 2016

	July			Aug				Sep					
Wk	27	28	29	30	31	32	33	34	35	36	37	38	39
Mo	4	11	18	25	1	8	15	22	29	5	12	19	26
Tu													
We				MD 2					TS2	MD 3			
Th							MD			Jeune G			
Fr													
Sa				beta* 2.5 km dev.									
Su													

	Oct			Nov			Dec				End of run [0000]		
Wk	40	41	42	43	44	45	46	47	48	49	50	51	52
Mo	3	10	17	24	31	7	14	21	28	5	12	19	26
Tu							ions setup						
We						TS3							
Th									ion run (p-Pb)			Lab closed	
Fr					MD 4								
Sa													
Su												Xmas	New Year

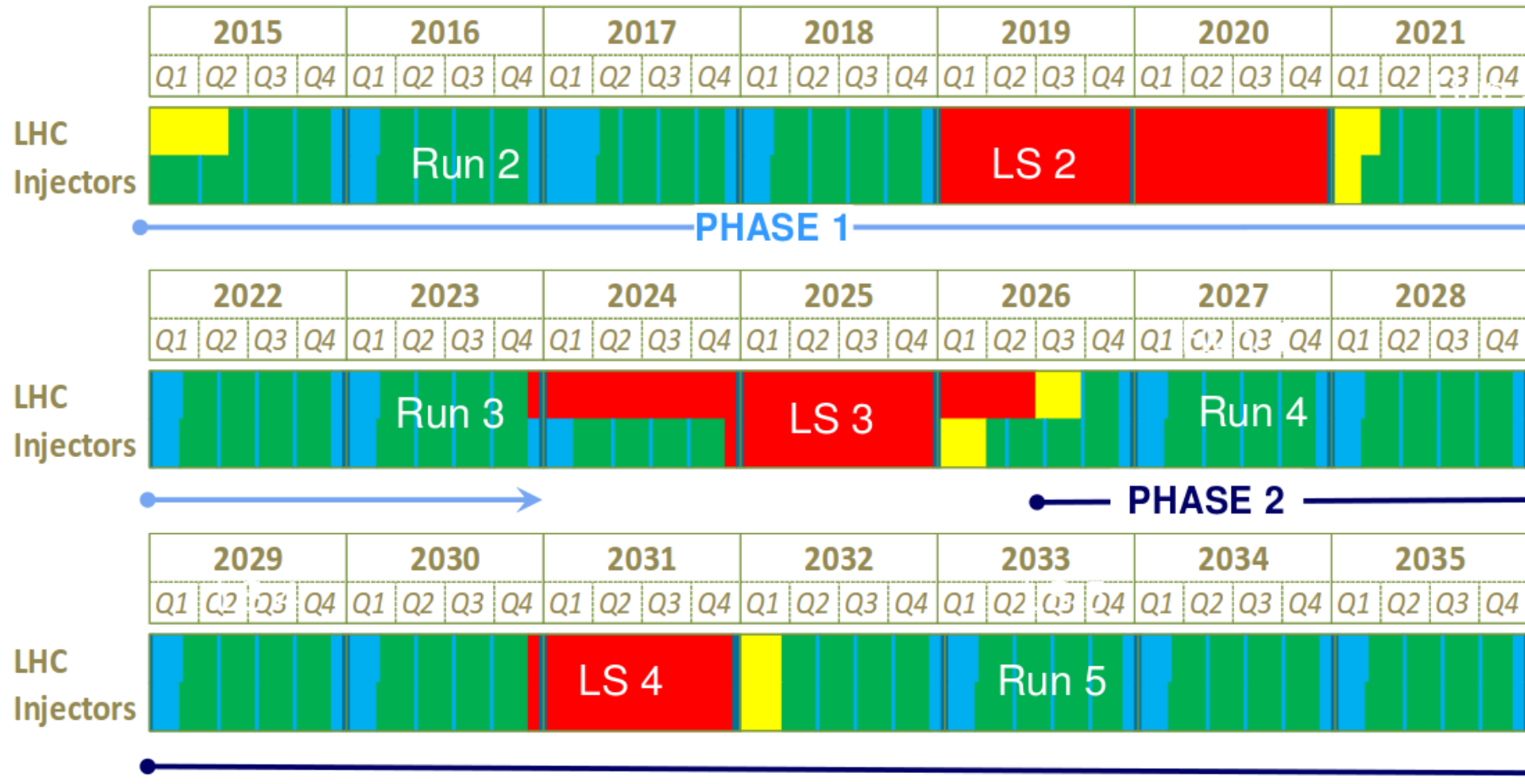
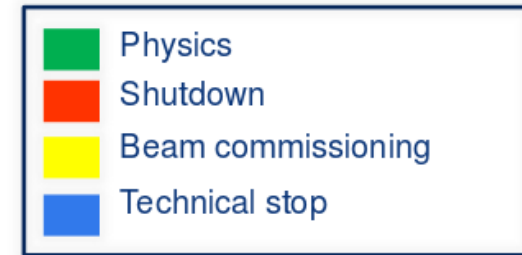
- Technical Stop
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Long term planning

LHC roadmap: according to MTP 2016-2020 V2

LS2 starting in 2019 => 24 months + 3 months BC
 LS3 LHC: starting in 2024 => 30 months + 3 months BC
 Injectors: in 2025 => 13 months + 3 months BC

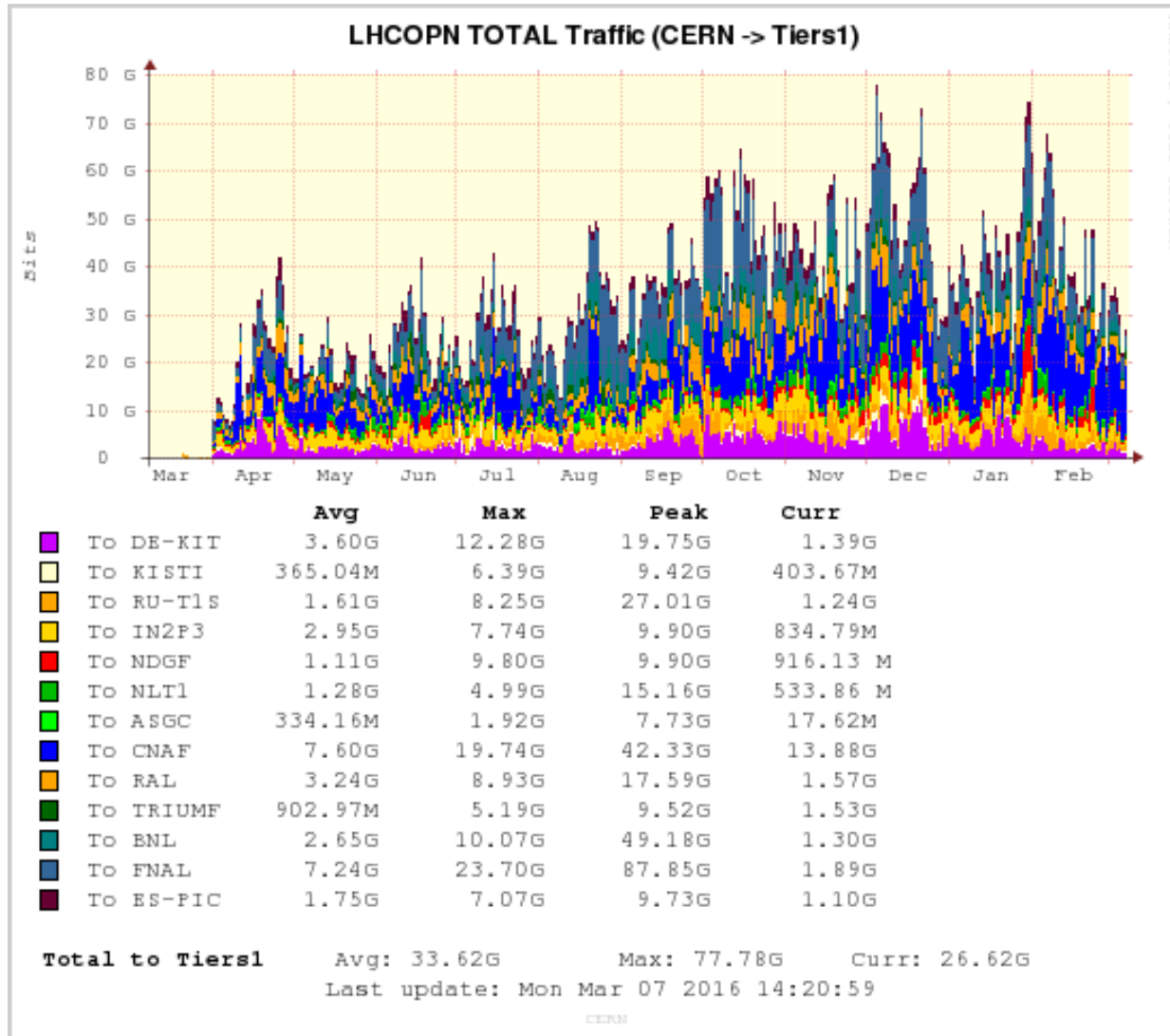


<https://lhc-commissioning.web.cern.ch/lhc-commissioning/schedule/LHC-long-term.htm>

https://lhc-commissioning.web.cern.ch/lhc-commissioning/schedule/LHC%20schedule%20beyond%20LS1%20MTP%202015_Freddy_June2015.pdf



LHCOPN traffic trend



CERN traffic

