

LHCOPN update

LHCOPN meeting - Umeå
4th of June 2019

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LHCOPN



Latest news

CH-CERN

LHCOPN routers upgrade:

- legacy Brocade MLXE border routers retired
- All LHCOPN and LHCONE links now connected to two Juniper QFX10002

NL-T1

- Deployed 100G link to CERN
- Previous 2x10G decommissioned

Latest news

IT-INFN-CNAF

- Deployed second 100G link from Milan to Geneva via Marseille
- Currently configured as backup link (no load-sharing)

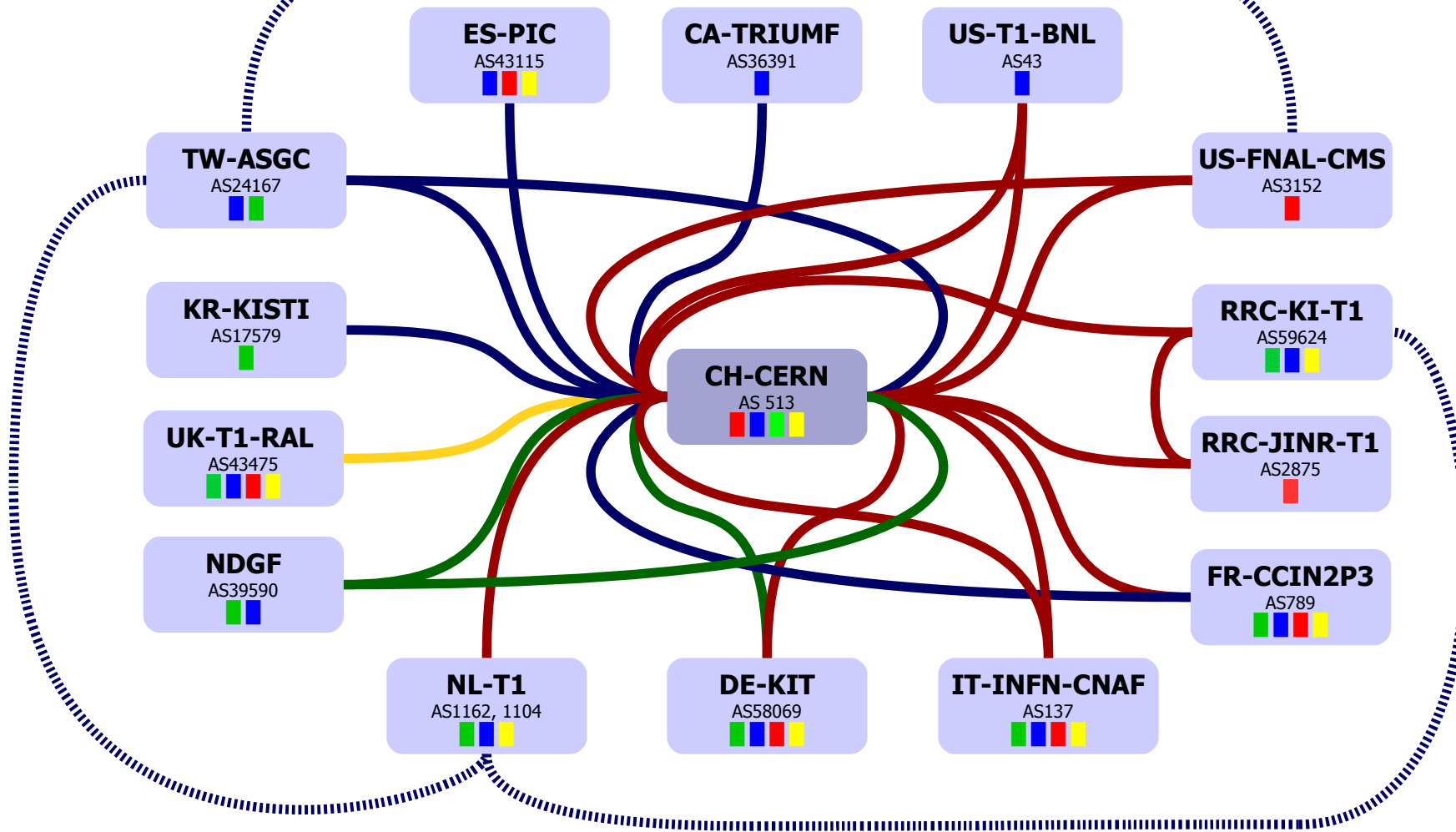
Russian Tier1s

- Deployed two 100G links to CERN, part of ring Moscow-Amsterdam-Geneva.
- Used for LHCOPN and LHCONE
- Backup connection via CERN router in Amsterdam

Latest news

[Input from Tier1s in the audience]

LHCOPN

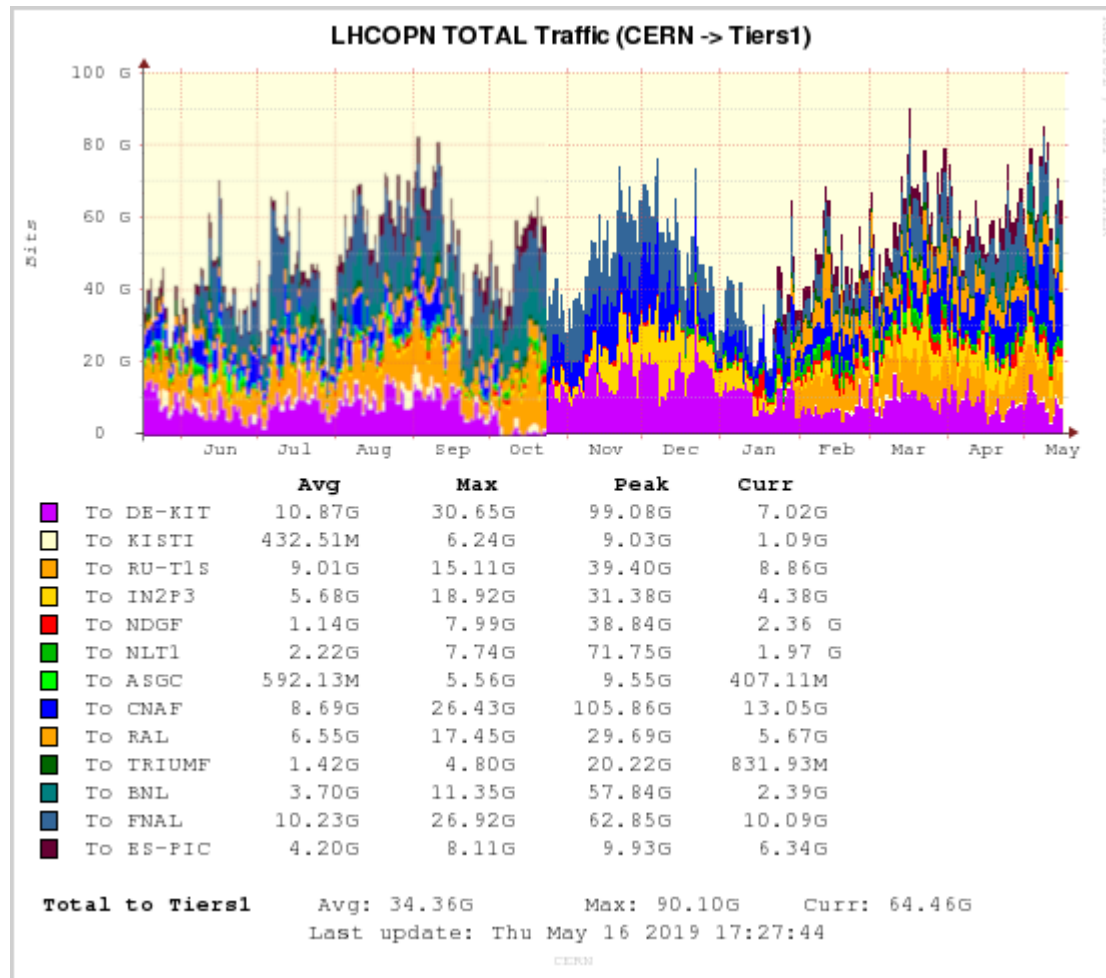


Ref: <https://twiki.cern.ch/twiki/bin/view/LHCOPN/OverallNetworkMaps>

	T0-T1 and T1-T1 traffic		10Gbps
	T1-T1 traffic only		20Gbps
	= Alice		30Gbps
	= Atlas		40Gbps
	= CMS		100Gbps
	= LHCb		

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LHCOPN traffic - last 12 months

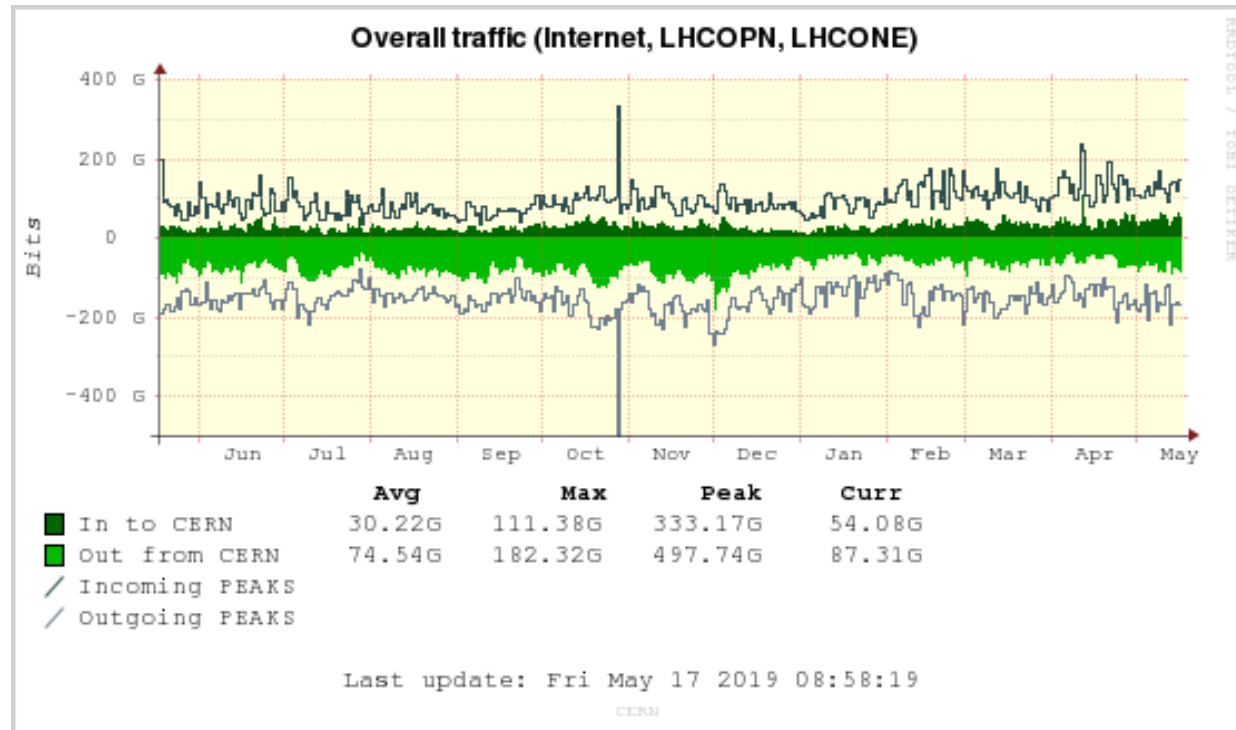


Ref: <https://netstat.cern.ch/monitoring/network-statistics/ext/?q=LHCOPN&p=LHCOPN&mn=00-Total-Traffic&t=Yearly>

Notes: Some data missing because of migration to Juniper. Months Jun-Oct reconstructed from previous graph.

Average values are not accurate

CERN total traffic - last 12 months



Peak at the end of Run2. Slight decrease since LS2 has started

Ref: <https://netstat.cern.ch/monitoring/network-statistics/ext/?q=CERN&p=EXT&mn=01-Total-Internet-traffic&t=Yearly>

Questions?

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