

CONS and HL-LHC day Analysis of needs from XX-YYY

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CONS and **HL-CONS** approved requests

(for HL-CONS except spares)

Item n.	Description	Approved Budget	Funding (CONS/HL- CONS) %	Budget to be allocated in the years
1	LHC WorldFIP Repeater Consolidation	200	CONS	2017
2	WorldFIP Master boards	600	CONS	2017-2018
3	GMT distribution renovation (Repeaters + cabling)	600	CONS	2017-2019
4	OASIS	627	CONS	2016-2019
5	Video Distribution System	205	CONS	2016-2017
6	Accelerator Database Servers and Storage	380		2016-2018 5 July 2017 2

New requests in view of HL-LHC installation

(to meet HL-LHC goals)



New requests for conversion of LHC into HL-LHC

Item n.	Description	Budget request	Budget to be allocated in years (from-to)	Priority (1-3) 1 top 3 low
1	Renovation of Technical Network Routers	2.3MCHF	2019-2020	1



ITEM: TN Router renovation

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Total Budget request	2.3 MCHF + 1 FSU (80kCHF)	Budget to be allocated in years 2019-2020, Produrement starts in 2019 and installation before the end of LS2 in 2020.	
Material budget request		No personnel request.	

Consequences of suppression of request on HL performance: Risk of network downtime.

Consequences of delay of request to LS4 or later. Critical equipment not under warranty.

Would depend on old "retired" equipment for spares.



ITEM: TN Router renovation descriptive slide

- •This comes from the network experts in the IT Department.
- •They point out that the Technical Network (TN) Routers have already reached their "end of sale" in 2015 and by 2020 they will reach "End of support".
- •In addition, the current setup is not tolerant to a router failure (no redundancy).
- So the proposal by IT is to replace the existing routers by state of the art network devices and modify the TN architecture (extra fibres) to support router redundancy. While doubling the current bandwidth available to TN services.

The cost of this consolidation is estimated at 2.3MCH for routers and fibres plus 1 FTE for the installation work.



Summary

Priority (1-3) in decreasing order of importance	Item n.	Description	Approval Status: • Approved by CONS • Approved by HL- CONS • Not Approved by CONS • Not Approved by HL- CONS • New

