
Lab Experience 2023

Bonsai Lab - Network Softwarization

Team 1:

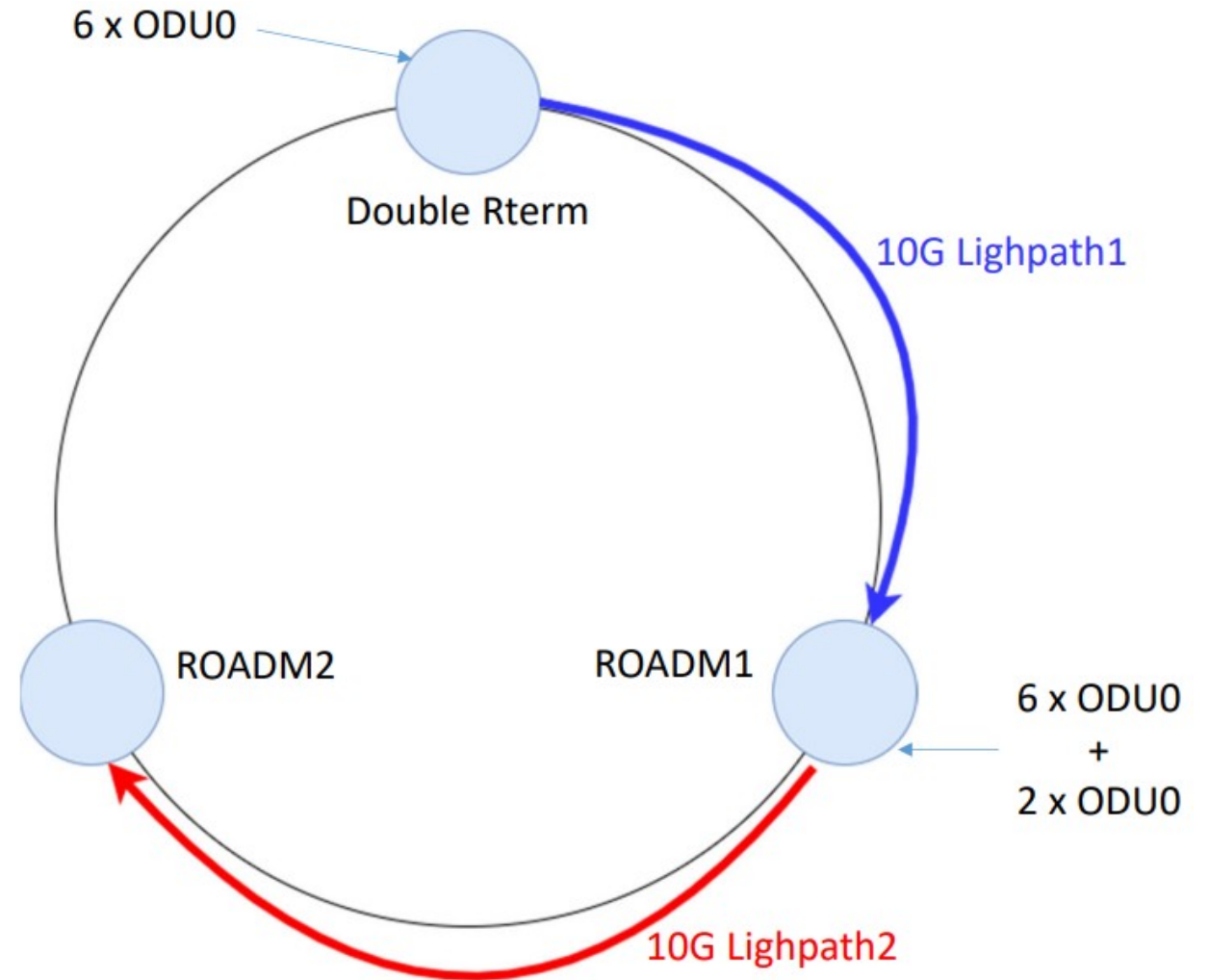
Chiara Rubaltelli

Matteo Grieco

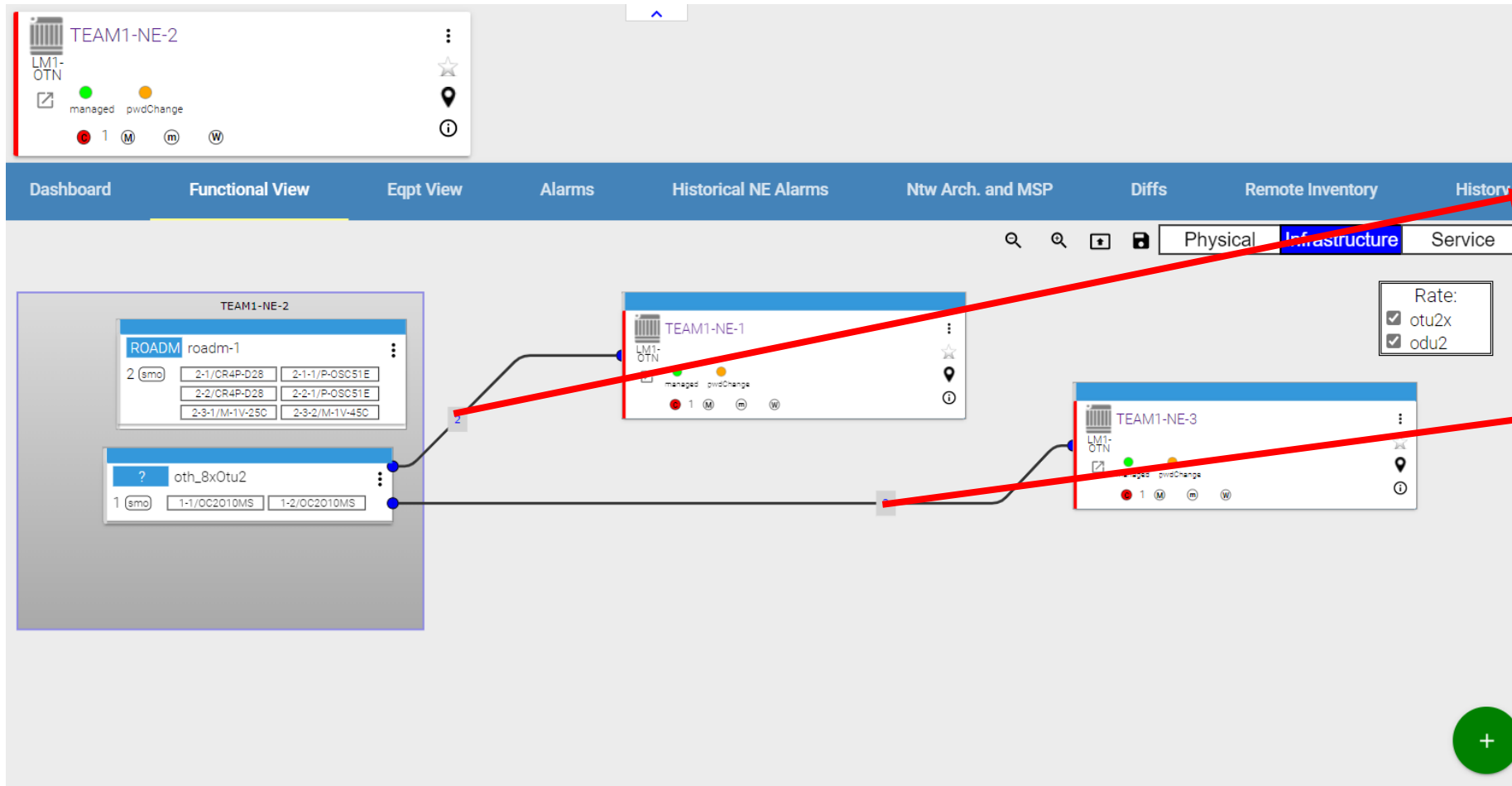
Riaz Luis Ahmed

Project description

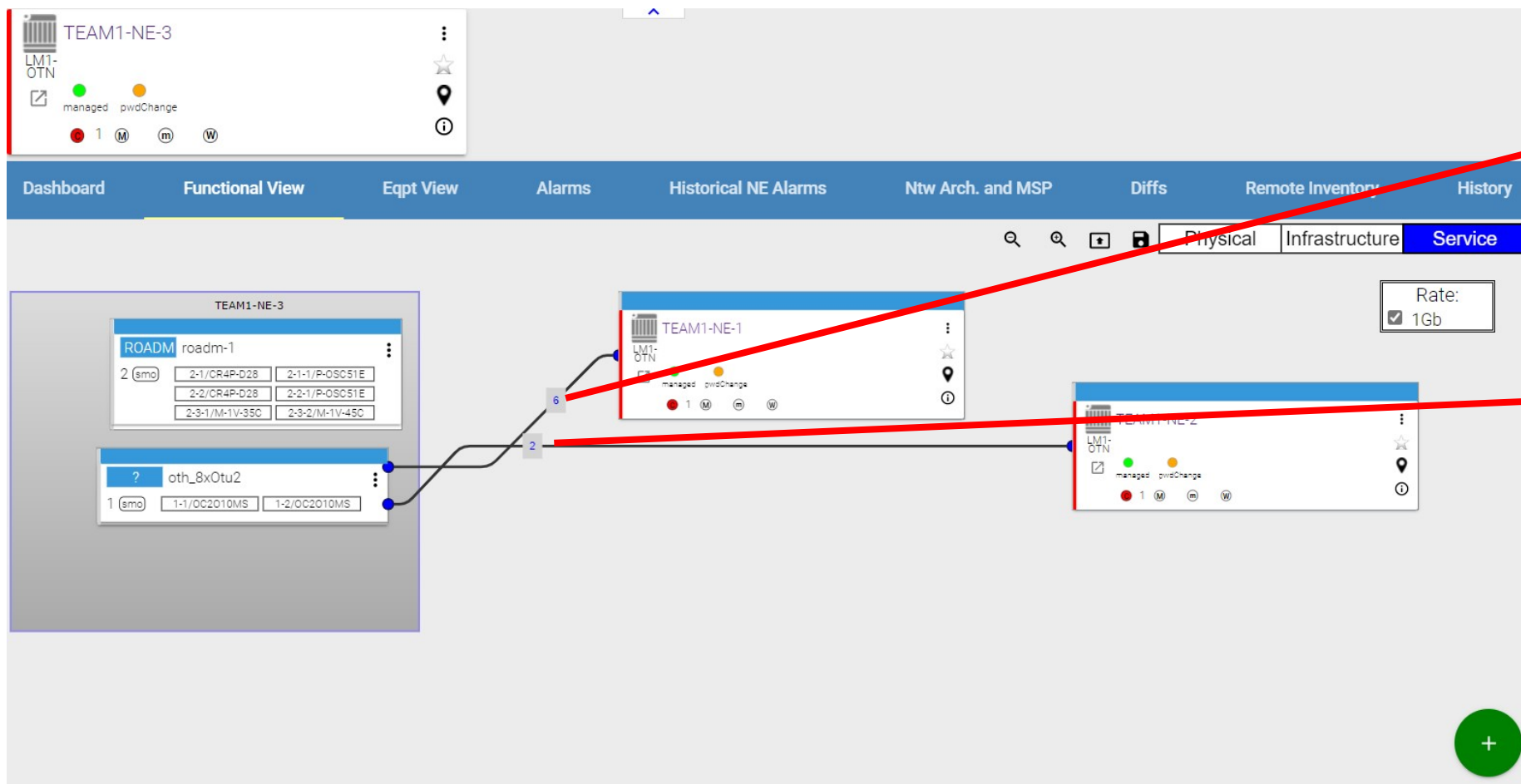
- 6 x ODU0 (6 x 1.25 Gbps) traffic requests from 'Double Rterm' to 'ROADM2'
- 2 x ODU0 (2 x 1.2 Gbps) from 'ROADM1' to 'ROADM2'
- Perform 'traffic grooming' at ROADM1



Infrastructure creation



Services creation

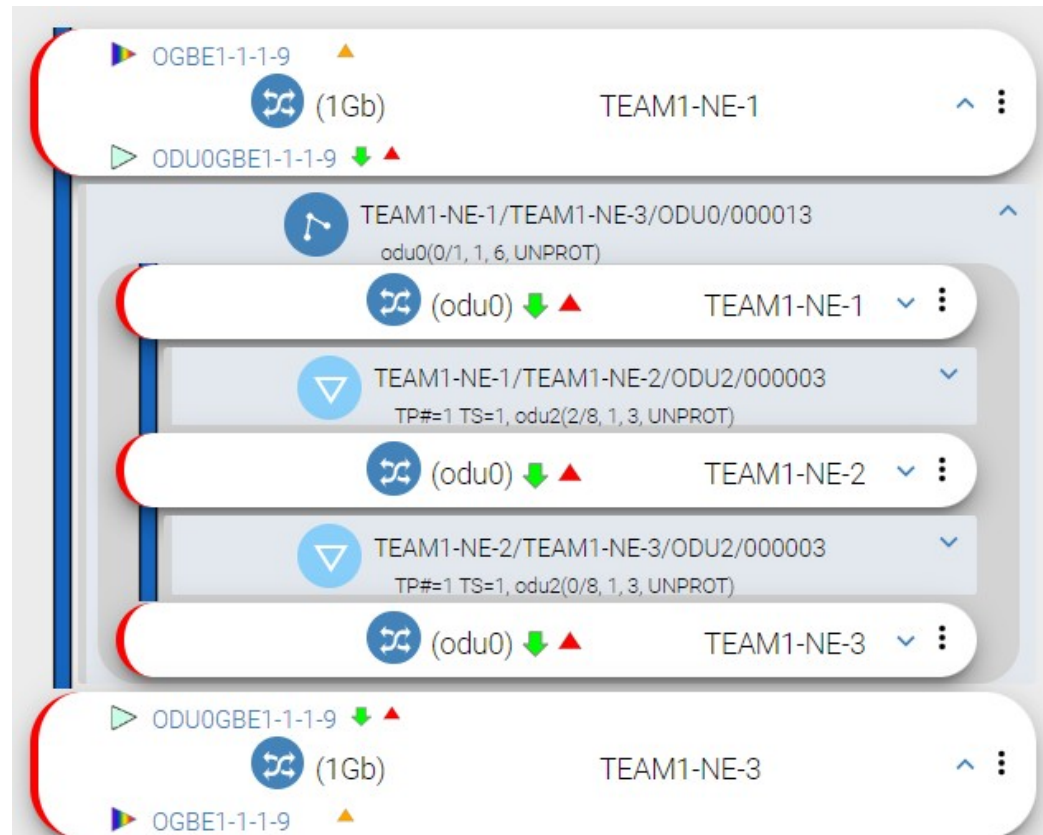


6 x ODU0 from Double Rterm (NE1) to ROADM2 (NE3)

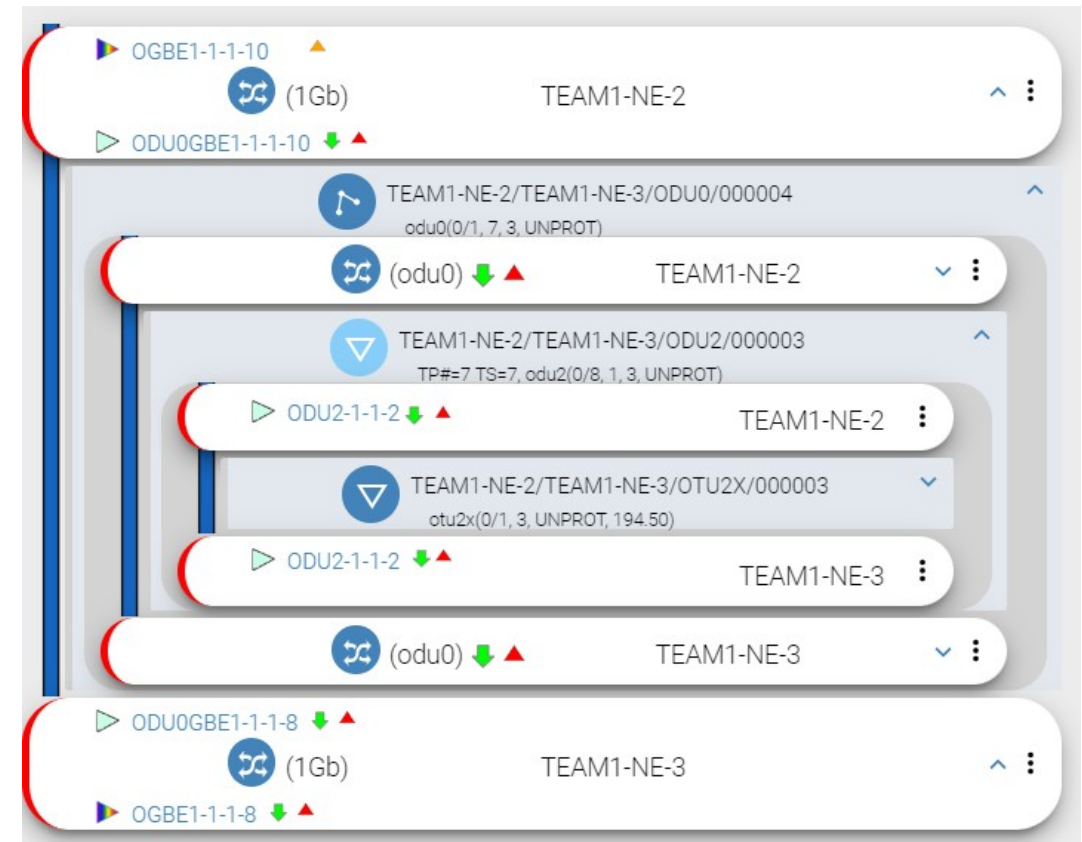
2 x ODU0 from ROADM1 (NE2) to ROADM2 (NE3)

Service routes

6 ODU0 routed from Double Rterm (NE1) to ROADM2 (NE3), through the ROADM1 (NE2)



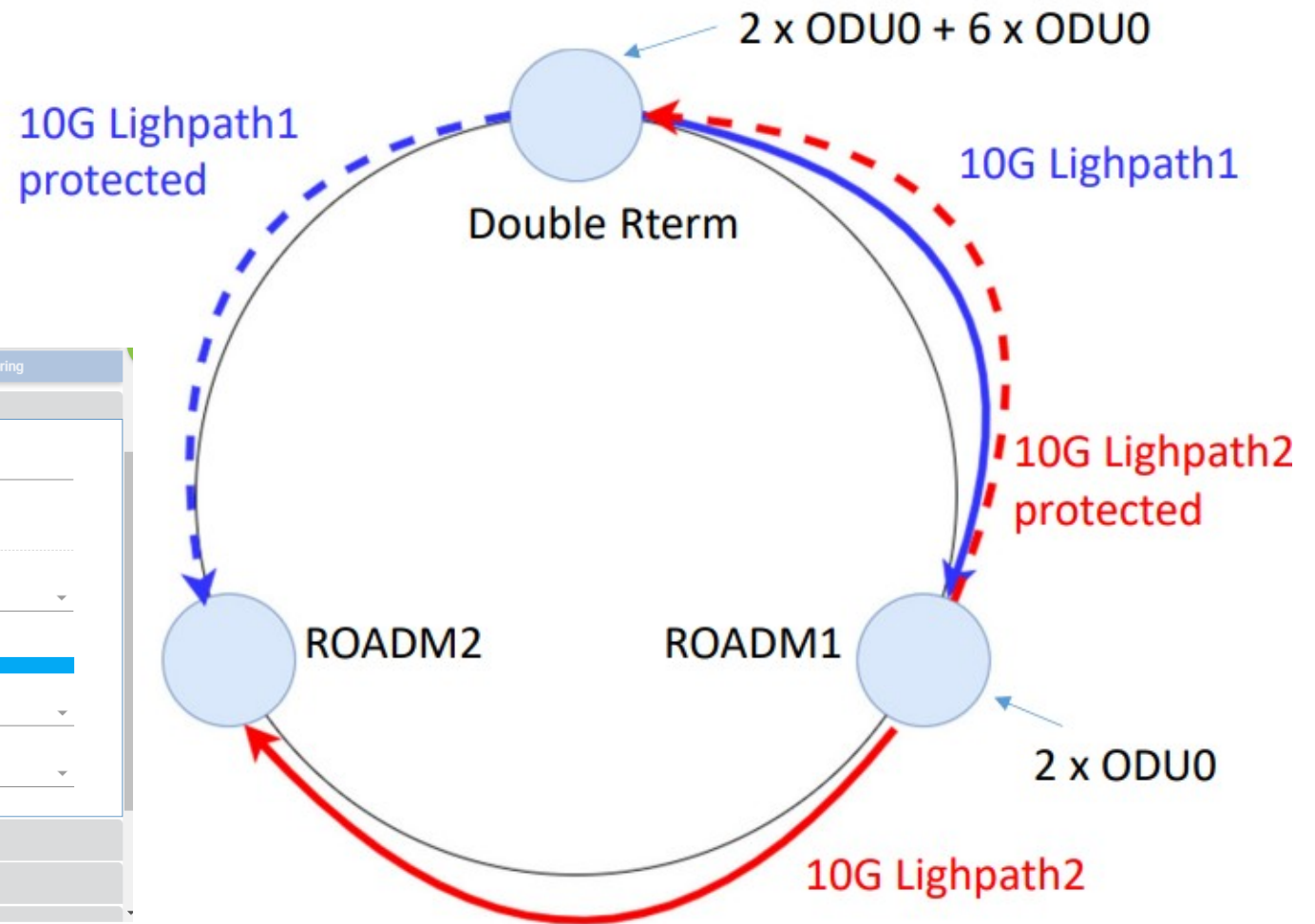
2 ODU0 routed from ROADM1 (NE2) to ROADM2 (NE3)



Protection implementation

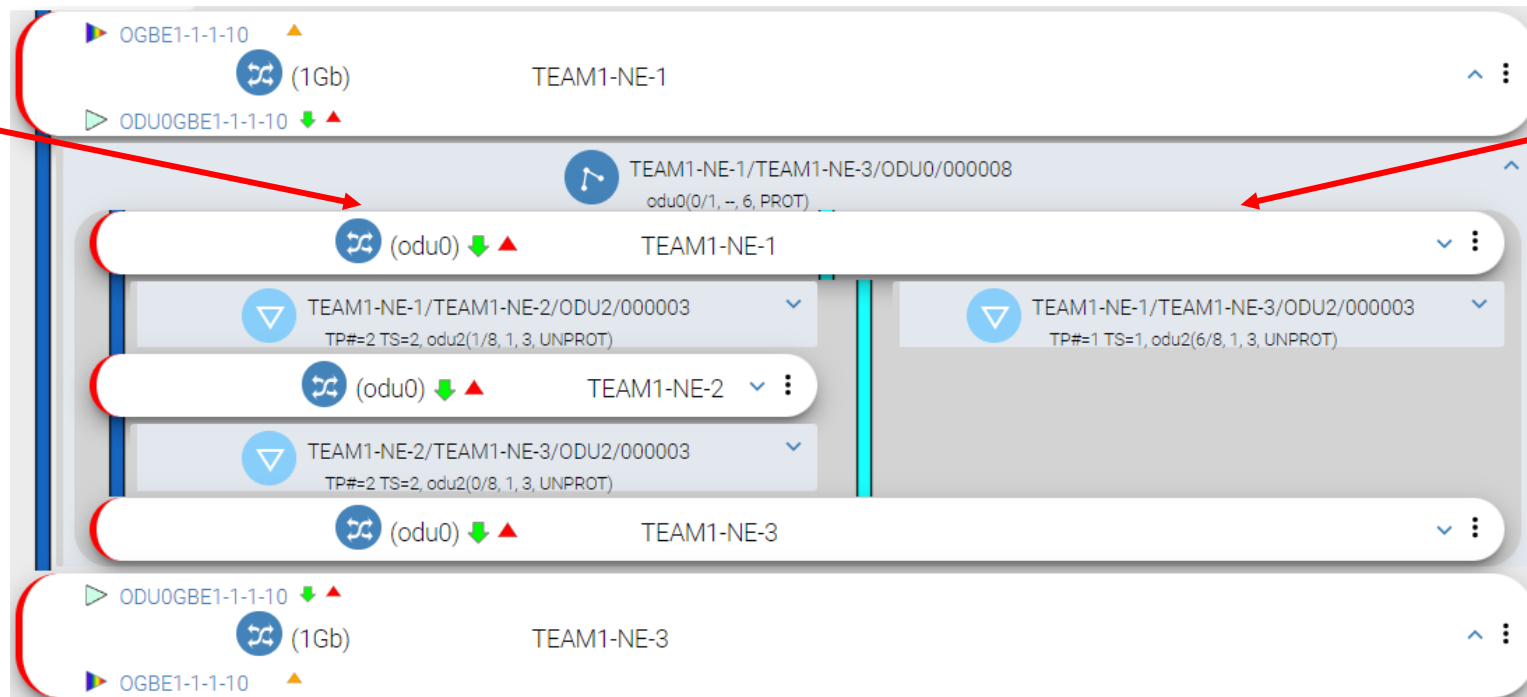
- Ensure link-disjoined protection for both traffic requests
- Definition of 'main' and 'spare' routes through '1+1' Protection Level

Connectivity	Monitoring
Connection Info	
Name TEAM1-NE-1/TEAM1-NE-3/1GB/000008	
Rate ETHCBBR 1Gb	
Shape	
Protection	
Protection Level 1+1	
Protection Effort same	
Grouping	
Tag: ..., Connection Group: ..., Customer: ...	
Connection End Point 1	
Site: ..., Ne: TEAM1-NE-1, Port: OGBE1-1-1-10	
Connection End Point 2	
SAVE	



Protection Routes

Main
route



Spar
e
rout
e

Conclusions

- Creation of infrastructures and services
- Traffic grooming
- Protection implementation

SUGGESTIONS

THANK YOU FOR YOUR
ATTENTION!
