

Belnet

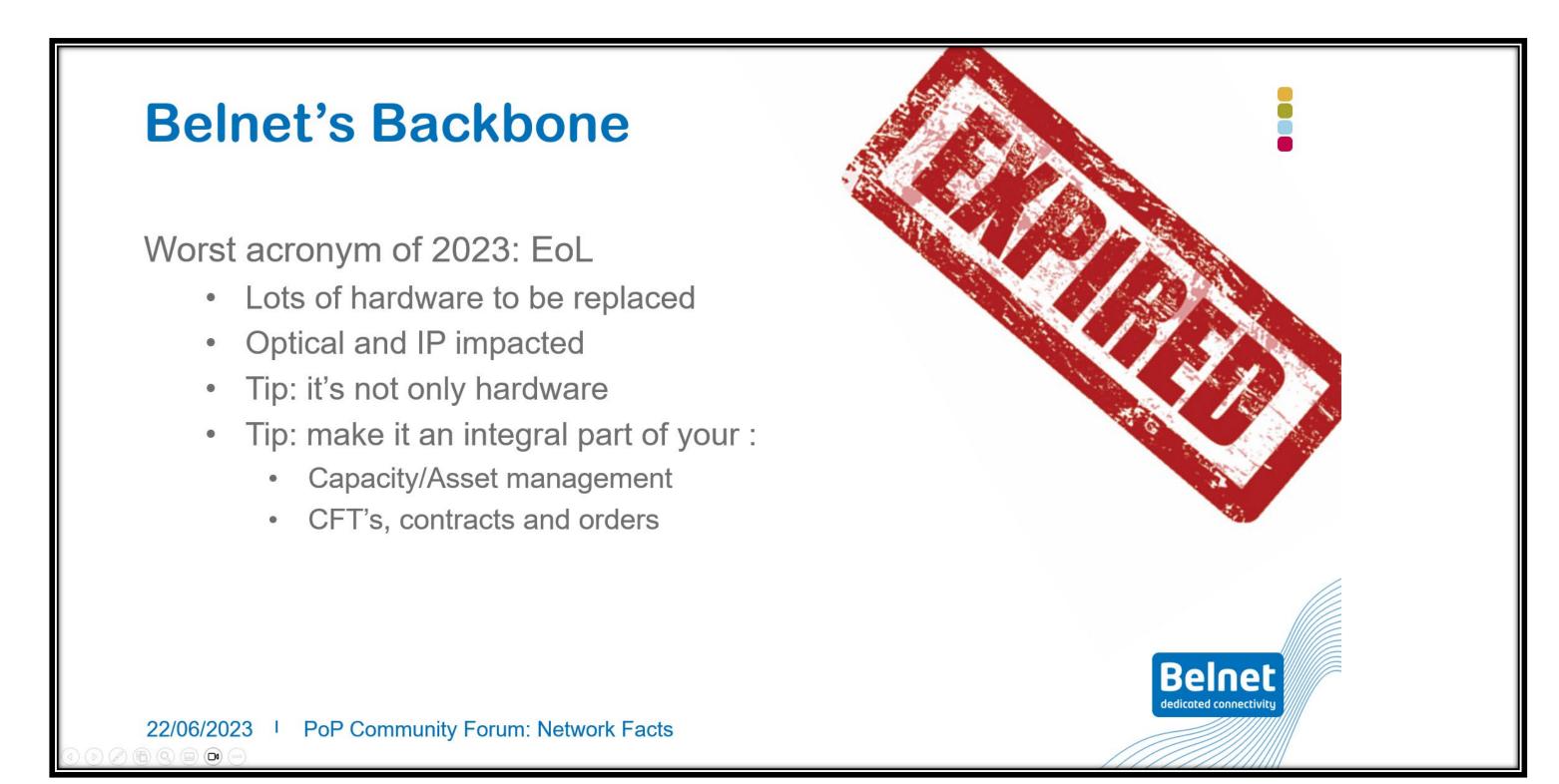
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**Chapter 1** 

## Belnet? Again?



#### Remember last year?



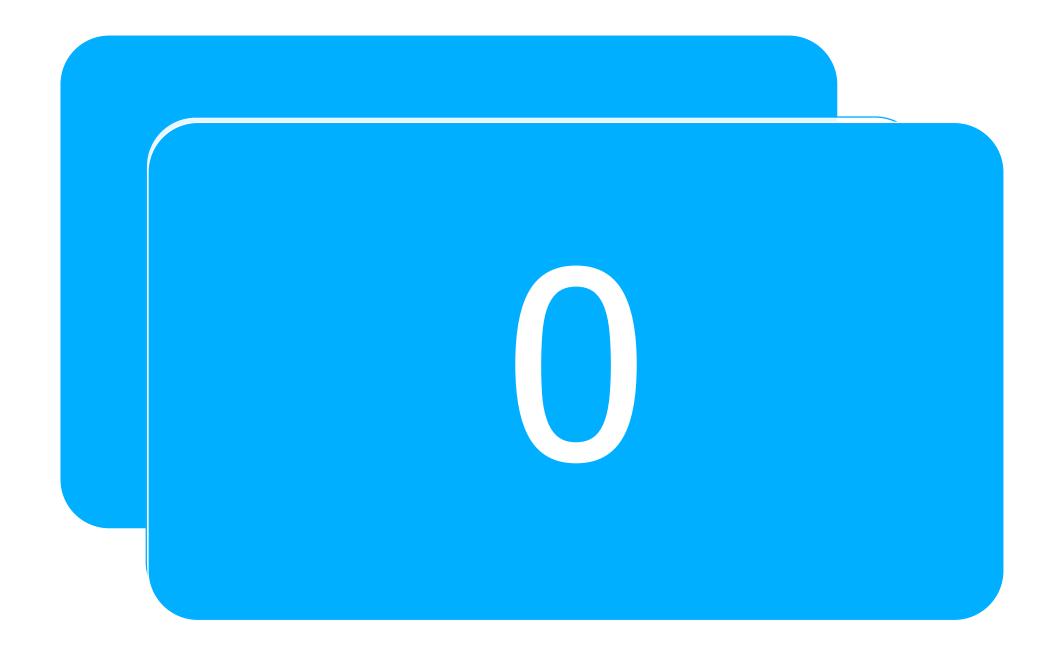
















(\*) with some help of Nomios



#### Hardware replacement

This was a majorly complex operation, practically a full migration of the network This was only possible due to:

- Extensive lab testing
- Due diligence and scrutiny by our CAB and ITSM team
- Close collaboration with the integrator
- A verified and strict procedure (and the verification that the procedure was followed post-intervention)
- Four-eyes control
- Highly skilled engineers (Pierre and Henri)



#### Hardware replacement: about the new hardware



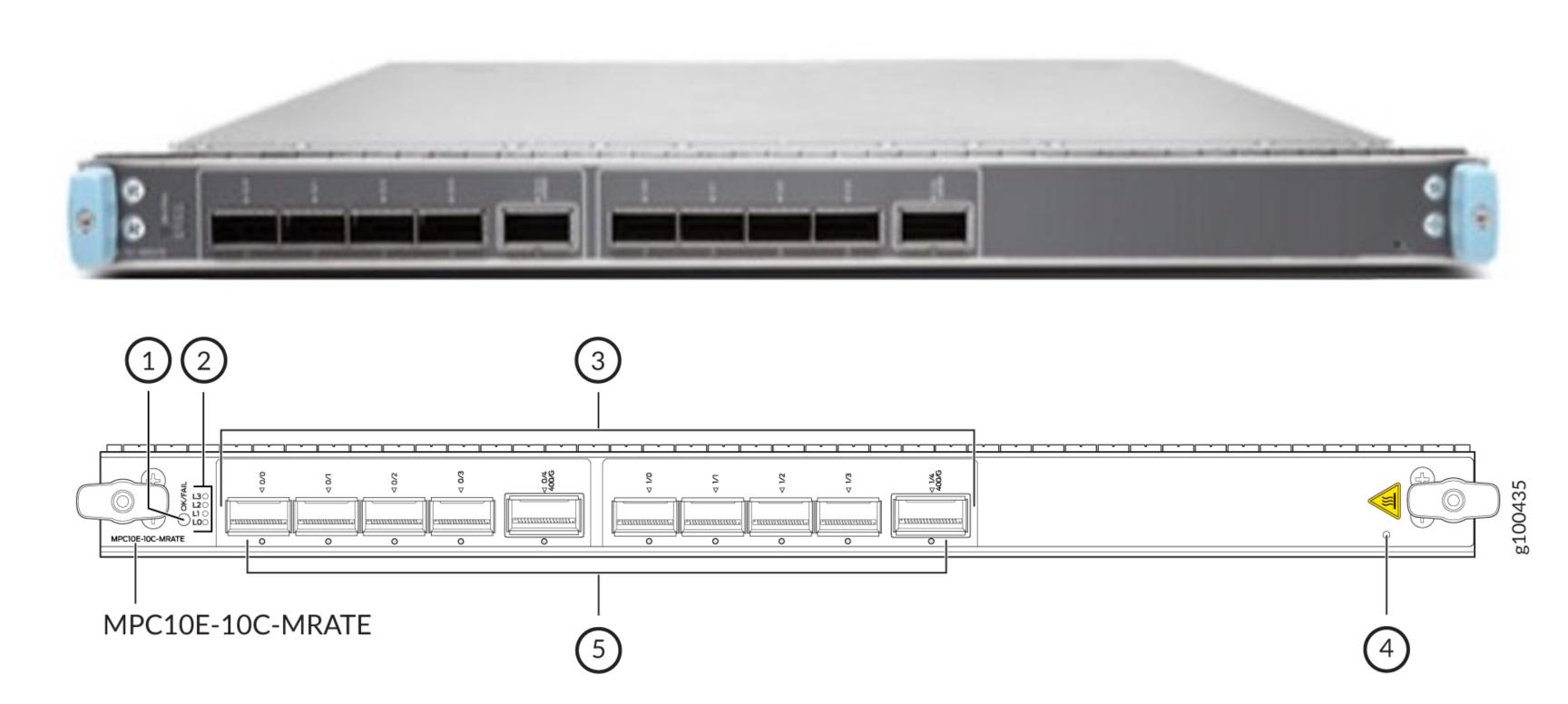


#### Hardware replacement: about the new hardware





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#### **Hardware replacement: MPO Cables**

#### Used in high density interfaces





### Hardware Replacement: <a href="mailto:kmelodramatic">kmelodramatic melody starts playing></a>

This was not possible without your help

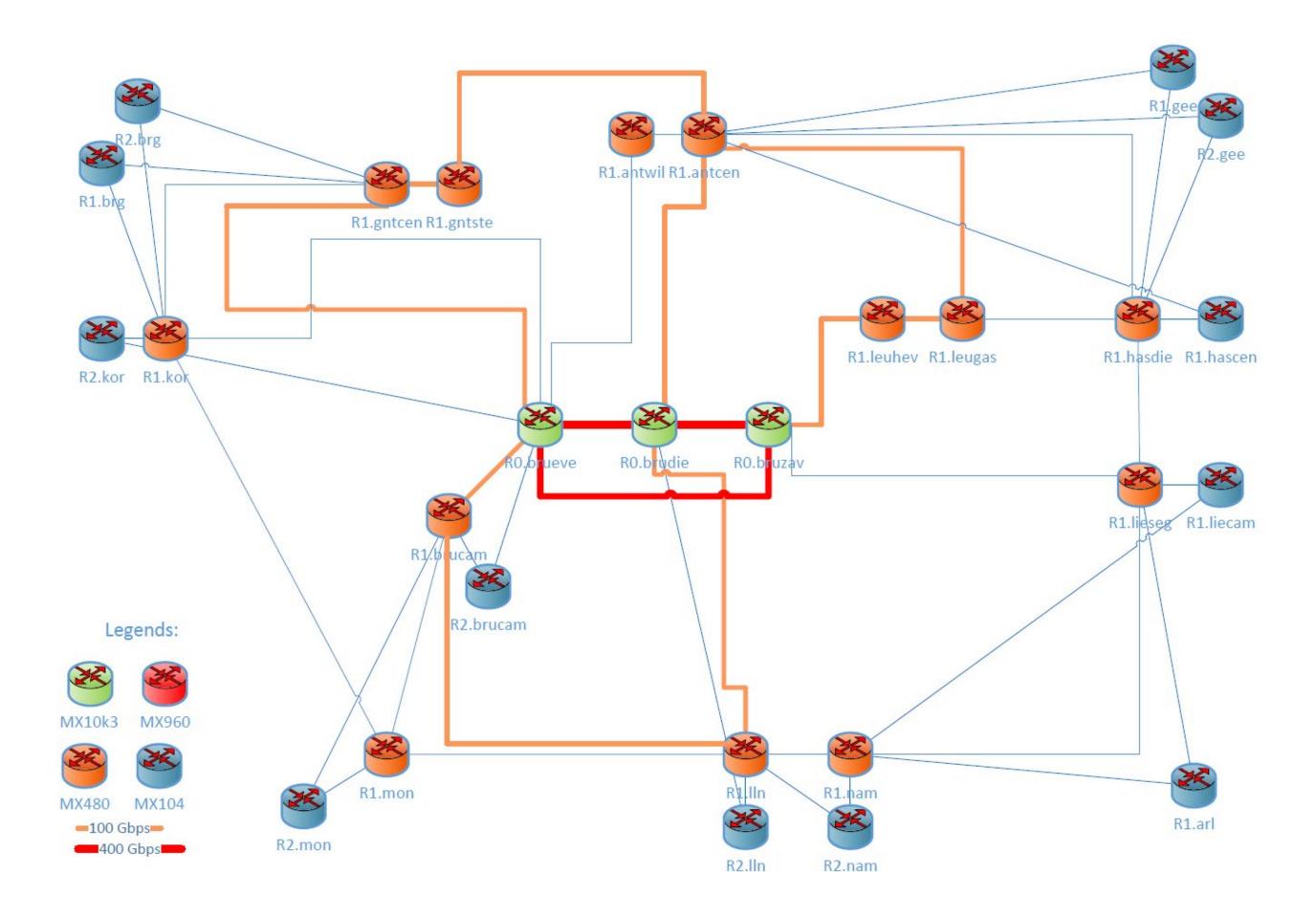
Thanks for assistance and patience. YOUR Hands & Eyes on site, like reboots of secondary equipment, RX/TX swaps, optics troubleshooting have helped us lot, saved a lot of time, energy and carbon emissions!

We strive to be as efficient as possible, also incorporating our scalability effort in the mix when replacing hardware



#### An updated map of the network

Connecting communities



**Chapter 2** 

## Is it over yet? Please?



#### No, your network keeps evolving

- Terminal server replacements
- WSS in Ciena's for 2025
- Replacement or removal of MX104's
- QKD installations in the concerned PoPs
- PoP audits

**Chapter 3** 

# So you proved you are working...



#### There is still some other stuff

- FedWAN in full swing
- BNIX migrations & finalisation in Q1 2025
- QKD: Belnet might heavily be involved in the next phase
- QKD: developing products
- BOOSTED project: investing into Time & Frequency signals
- Operation Desk involvement
- Automation Effort
- CFT of hardware needs replacing



#### There is always other stuff...

We never stop upgrading the network:

- Bugs aplenty, subjective feeling it's getting worse
- Due diligence (and included in our integrator contract)
- Continued support
- Two major platforms: optical and IP/MPLS

### Questions?