

Management of Dynamic Lightpaths

Ronald van der Pol

rvdp@sara.nl

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this talk is intended to start a discussion

- Operational issues

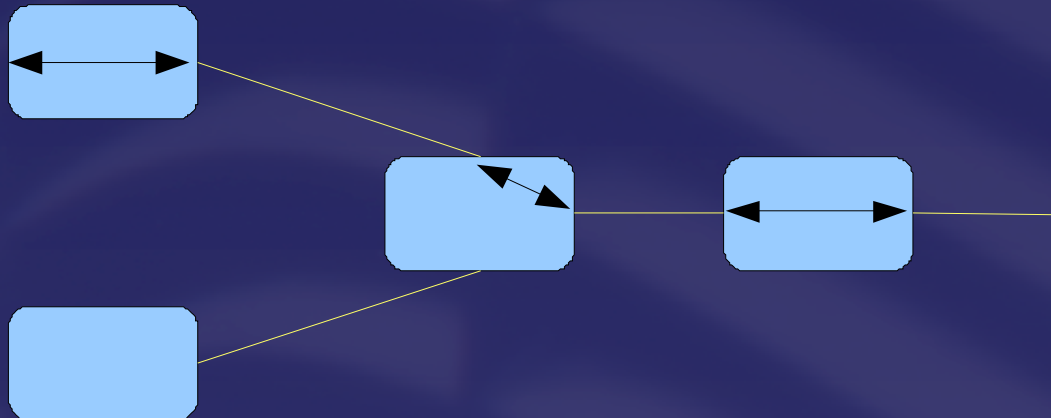
- ▶ Alarms during setup and re-routing
- ▶ Identifiers
- ▶ Monitoring
- ▶ Ticketing

- Discussion

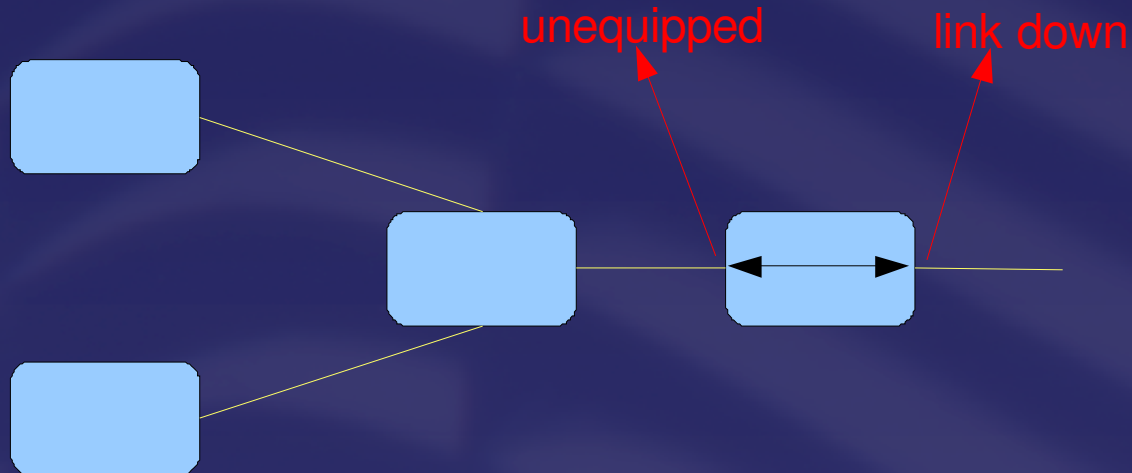
- Dynamic lightpaths setup by
 - ▶ DRAC, UCLP, DRAGON, etc
- Provisioning phase causes alarms
 - ▶ unequipped
 - ▶ link down

- Unequipped alarms
 - ▶ raised when circuit is not completely provisioned end-to-end

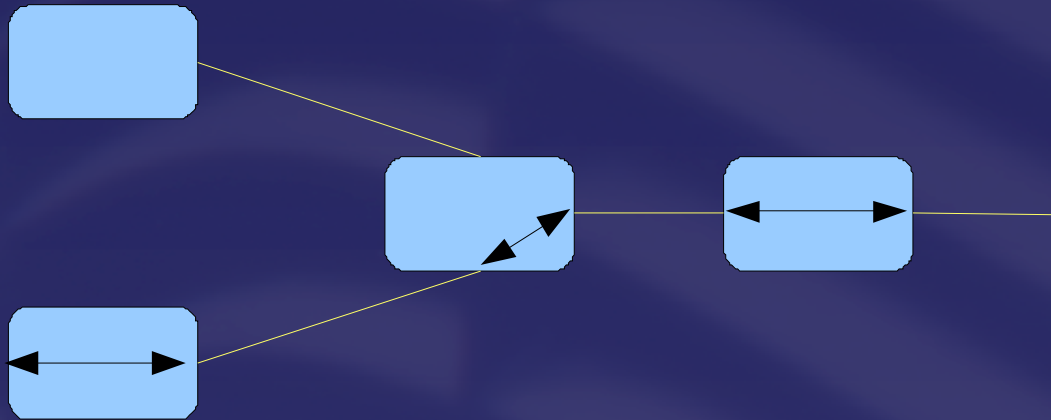
- Link Down
 - ▶ raised on GE ports when there is an outage on the circuit or the circuit is not completely provisioned end-to-end



Example



Example



- Ignore *unequipped* alarms?
 - ▶ run scripts to find crossconnects that are not part of a lightpath
- Ignore *link down* alarms on end ports?
 - ▶ react only to *link down* alarms on backbone links?

- DRAC, UCLP, DRAGON, etc must generate an Identifier for each lightpath they setup
- We need Identifiers that can be generated by programs without human intervention

- How will the Identifier be communicated to the Network Operator?
 - ▶ configured in the equipment by dynamic lightpath setup software?
 - not all equipment can handle descriptions
 - ▶ suggestions?

- How do we monitor dynamic lightpaths end-to-end?
- Share status and configuration data between domains
 - ▶ which data?
 - ▶ how?

- Who is the point of contact for each dynamic lightpath?
 - ▶ who to contact in case of planned work or outages?
- How long can we go on with the broadcasting of tickets like we do today?

Thank You

Ronald van der Pol

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<http://nrg.sara.nl/>