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Jisc Monitoring Platforms

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- » Replace expensive HP OpenView
- » Currently just fault management not full FCAPS
- » Based around topological maps
 - › Easy navigation for service desk
- » Single reference for both IP and Optical faults
- » Interact with Ciena NMS 'OneControl'
- » Open Source based i.e. inexpensive

- » Core system uses Nagios
 - › Development flexibility for new/mod'ed plugins
 - › Config DB + lots of scripts to semi-automate configs
 - › Scales! (MK Livestatus yes, NDOUtils no)
- » Nagvis for topological maps
 - › Manual configs but bearable
- » TMF8₁₄ and MTOSI APIs with OneControl
- » Quick look...

- » Customer facing monitoring tool
- » Customer reporting based on Netsight stats
- » Traffic, Latency, Loss, Availability
- » Only one login/view per customer
- » Good for specific connections but not general estate
- » Third party development and maintenance
 - › Contract not being renewed, bring in-house
- » Quick look...

- » Before CPT internal users relied on Netsight
 - › Slow (then), difficult to navigate around
 - › Expensive and time consuming for bespoke requests
- » Combination of open source tools and scripts
 - › Cacti, RRDtool, Weathermap, Python, PHP
 - › MySQL for config DB (same as OSS)
- » Designed around visual navigation (maps)
- » Quick look...

» Performance Monitoring

- › perfSONAR (see Tim's slides)
- › In-house bespoke scripts for PSBA (Wales)
 - May transition to PS

» SNIPS

- › Still used by NOC, simple but flexible

» Netflow

- › Mainly for threat detection and mitigation

- » Automation, Automation, Automation
- » Move towards a more modern OSS/BSS
 - More FCAPS like
 - rather than just faults from a 'fancy' Nagios
- » Replace TMF814/MTOSI
 - › Ciena's BluePlanet MCP APIs
- » Netsight replacement
- » Netflow for customer traffic reports (scale!)