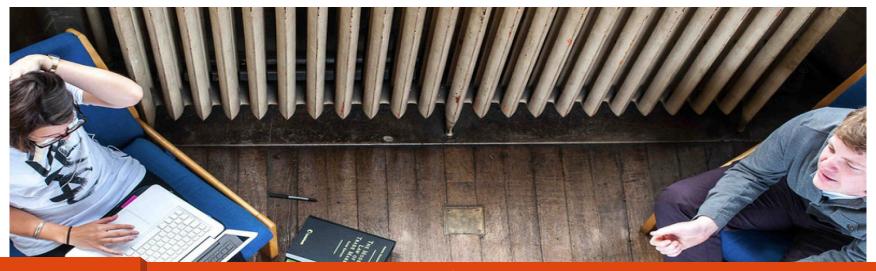
Jisc



24/10/2018

Jisc Monitoring Platforms

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Janet6 OSS Background, Requirements

- »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...



Internal Tool - Capacity Planning Tool

- »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!)