

TF-NOC flash presentation the HEAnet NOC(s)

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- k fibre (~2,600km) + managed
 units (ADSL, 10Mb-1Gb, wireless)
 onal network, direct to customers
) ADVA FSP 3000 eROADM
) Cisco 7200/3750/3400, Juniper
 480
) Cisco CRS-1, Juniper + Cisco CPE

- Connectivity (99.97%)
- IP & transit (v4 & v6)
- network value-added services
- procurement
- consultancy & advice
- ...ITIL Service Catalogue

tools

- RT, Cacti, Nagios, (MRTG, Cricket, ...)
- PerfSONAR, vendor specific tools



- 24 x 7 x 365 NOC
 - 09:00 – 17:30, manned NOC
 - 17:30 – 09:00, weekends, etc., on-call with escalation paths
- in-sourced NOC, weekly rota system:
 - 2 x primary, 1 x backup, 1 x out of hours; ~35 engineers
- outsourced support:
 - on-site equipment replacement
 - optical transmission

- 2 x NOCs : 64 clients; ~4,000 schools
- customers
 - university IT/IS departments
 - IT personnel in research organisations
 - *(dedicated 1st/2nd line support for schools)*
- tools
 - self-built 'CRM' & ticketing system; migrating to RT + self-built system
- SLAs
 - Every service has at least one!
 - e.g. 99.97% availability; 2 hour response time; etc.

- heavily reliant on e-mail
- EduPERT : defined contacts
- GÉANT / DANTÉ / etc. communities
- providers
 - Swap ticket reference numbers – no automation
- customers
 - Client Portal (beta) : <http://portal.heanet.ie>
 - defined contacts (ClientDB CRM)

- internal wiki
 - processes, procedures, workflows, escalation paths, etc.
 - all NOC personnel can (and should) edit it
 - Replicated and available off-line (for DR)
- custom in-house 'CRM' system: ClientDB
 - contact information, authority, PoP addresses, etc.
 - definitive, **authoritative source** of information.
 - **integrates** with other systems
- working on integration of ITIL methods