



Changes to Service Provision 2013

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Janet in the East Midlands Briefing Day - 25/04/13

Roadmap

- Core network changes.
- Edge site connection changes.
- Monitoring.
- Highlighting:
- What will be the effect on my service provision?
- Will this work interrupt my service?
- If so when and how?





- Migration from SJ5 to Janet6
- Replacement of Ciena 2200 & 4300 devices with Ciena 4200 devices
- Replacement of secondary PoP routers
- Upgrade of leased 1Gb/s links with 10Gb/s links
- Removal of "eastern loop"





Migration from SJ5 to Janet6

- Bandwidth increase
 - SJ5: each RNEP has 10Gb/s to Janet core
 - Janet6: each RNEP starts with 2 x 10Gb/s to Janet core
- RNEP location change
 - SJ5 RNEP at Nottingham Trent University (Clifton) relocating as
 - Janet 6 RNEP at University of Leicester

SJ5 to Janet6 work planned

- Saturday 18th May
 - Replace KMC RNEP router with a higher performance unit in preparation for Janet6
 - Janet service not affected
 - Outage to EMMAN Commercial Pipe only between 07:00 and 08:30
- Friday 12th July
 - KMC RNEP router switches from SJ5 to Janet6.
 - No service disruption
 - Work scheduled between 07:45 and 08:30





SJ5 to Janet6 work planned

- Saturday 13th July
 - Shut NTU Clifton RNEP Router
 - Bring UoL RNEP router into service on Janet6
 - Connect Leicester PoP router via new RNEP
 - Re-engineer all circuits terminating at Clifton RNEP to now terminate at the UoL RNEP
 - No service disruption to sites other than those fed from University of Leicester.
 - Service disruption to the following sites between 07:30 and 08:45:
 - NIACE
 - National Space Centre
 - Regent College
 - South Leicester College
 - University of Leicester
 - Wyggeston & QE1 College





- Replace all n x 1GE channels with 10GE channels
- Upgrade all leased 1Gb/s circuits to 10Gb/s
- Decommission the PoPs at Boston and Grantham
- Simplify dual site PoP connectivity via arc topology
- During the work above:
 - PoP routers will lose resilience
 - Service provision will not be affected
 - "Service-announce" messages will notify of any changes.

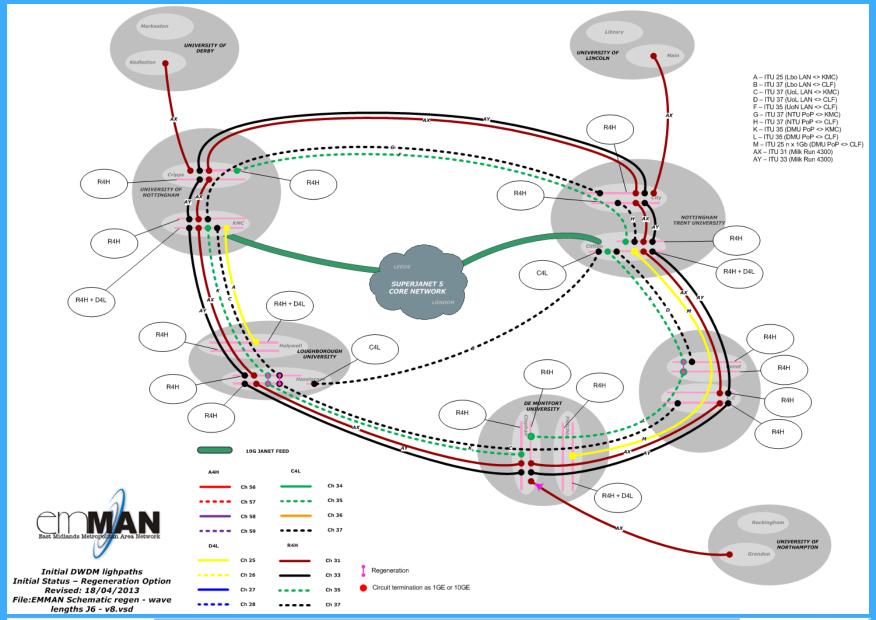




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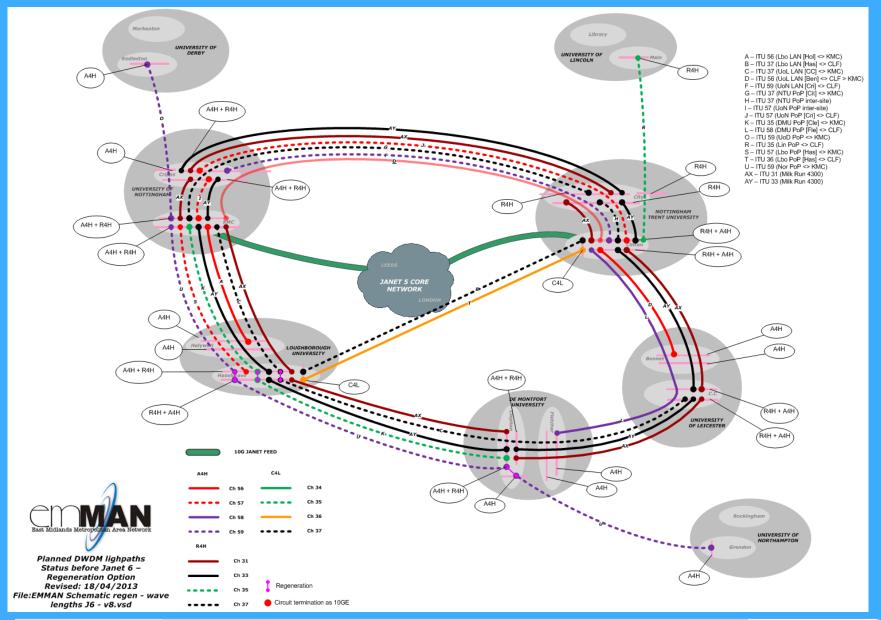






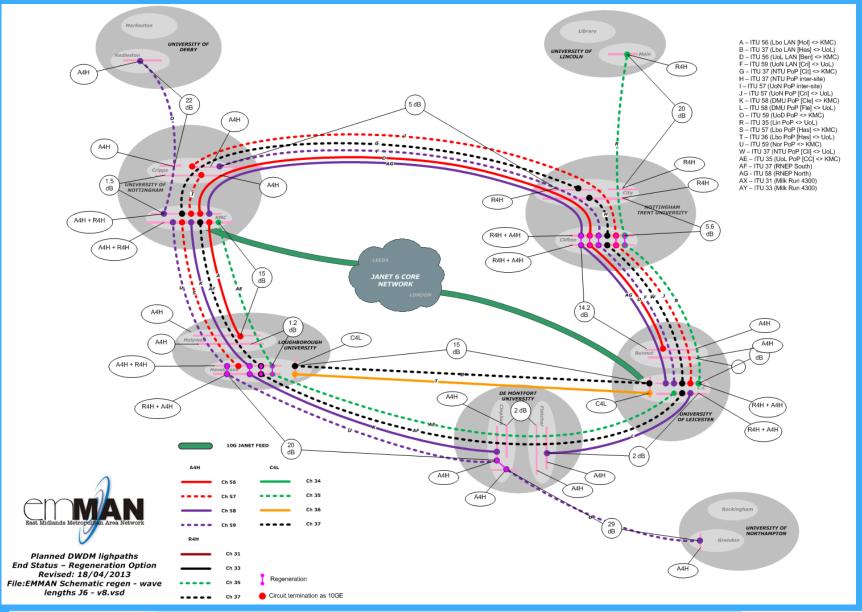












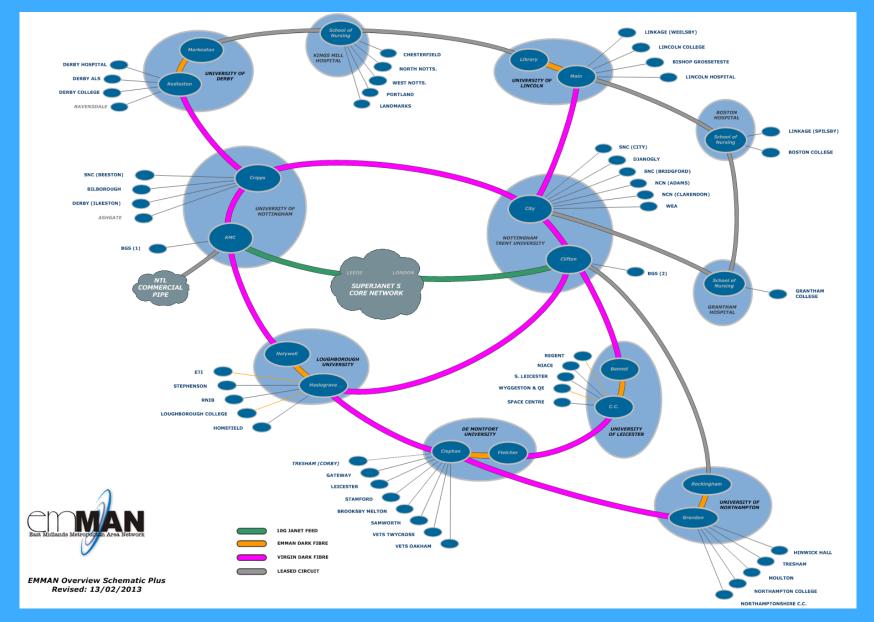




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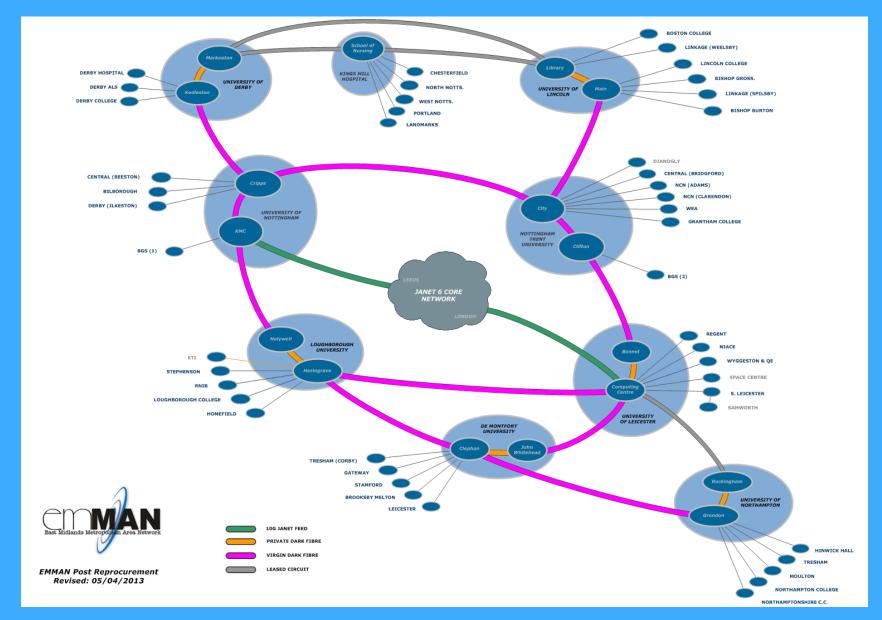












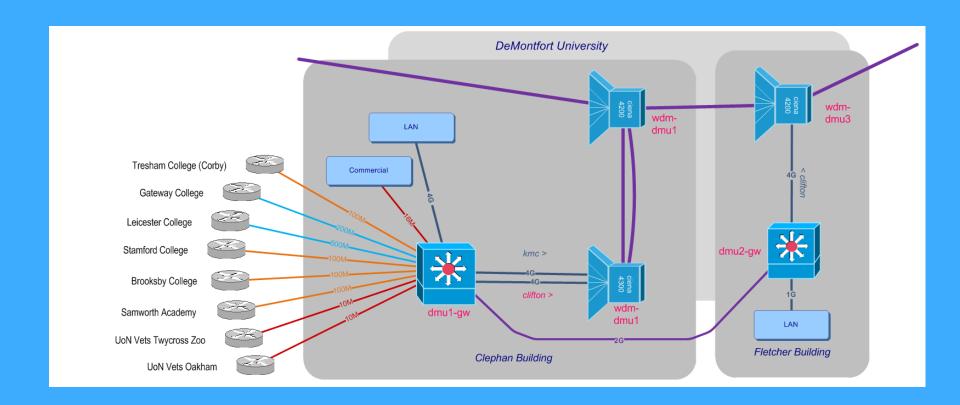




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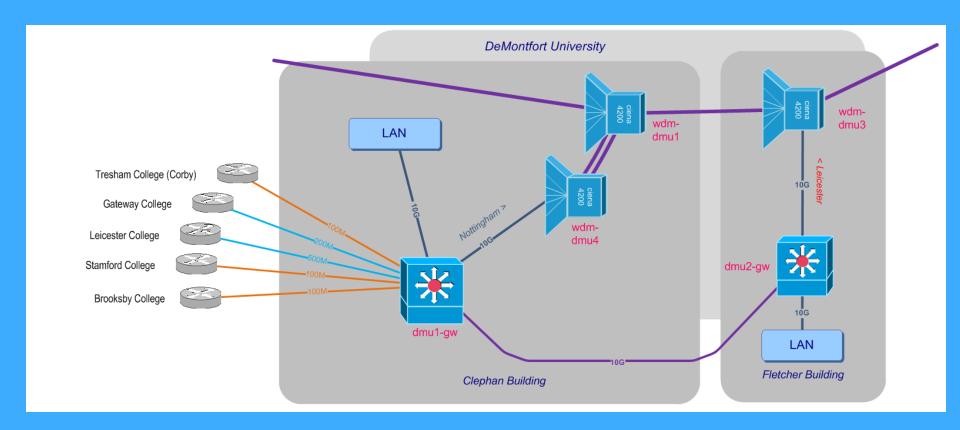
















Edge site connection changes - 1

- Circuit re-procurement covered elsewhere
- Circuit installation
 - Site survey
 - Site access required for cabling
 - Site access required for termination equipment and testing
- Service cut-over
 - All routers at edge sites have recently been upgraded to match throughput with new circuit provision
 - Outage of service of between1 to 5 minutes whilst cutting over service and testing.





Edge site connection changes - 2

- If the existing circuit is VM and requires no changes then there will be no disruption at all. These sites are:
 - Derby City Adult Learning
 - Landmarks
 - NIACE (Leicester)
 - North Nottinghamshire College
 - Portland College
 - Central College Nottingham (West Bridgford)
 - New College Stamford
 - Stephenson College
 - WEA (Nottingham)





Edge site connection changes - 3

- Some sites have been prioritised due to risks associated with the existing provision.
- These sites are:
 - Bishop Burton College (Riseholme)
 - Loughborough College
 - Northampton College
 - Regent College





Monitoring

• Monitoring the East Midlands Network via the existing Solarwinds system will continue after the change of operational responsibility until replaced by a new system.





Broad Brush Schedule for 2013

- Backbone change affecting EMMAN Commercial Service
 - Saturday May 18th Equipment delivery dependent
- Backbone change affecting Leicester PoP sites (Janet6)
 - Saturday July 13th 07:30 to 08:45
- Backbone changes non-service affecting
 - May 20th to August 9th
- Edge site carrier surveys / installations
 - May 20th to September 21st (start estimated)
- Service cut over
 - Prioritised sites: as soon as possible after the circuit is handed over
 - Standard contract provision: September 22nd to November 30th









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