TTNC's Network

Switches – Capacity and Failover

TTNC's main network, telephone numbers and call services are operated via a Cluster of 7 Redundant Switches in Telehouse, London, 2 Redundant Switches in the Reading Data Centre and 3 Redundant Switches in the Bristol Data Centre. Telehouse is the UK's premier Network Operations Centre (NOC).

If a switch fails, the calls that were going to that switch will be instantly routed into a different switch until such time as the failing switch is recovered.

TTNC always maintains enough spare capacity on each switch to cover such eventualities and therefore minimise and prevent any disruption to services.

By placing our main network in Telehouse, we have ensured that we have virtually unlimited capacity and access to the worlds leading Telecom Carriers and to the internet. This enables us to terminate and originate both UK and international call traffic at some of the best prices available in the UK telecoms market.

Next Generation Network – PSTN and VoIP enabled

Our services run on a "Next Generation Network" (NGN) allowing us to support traditional PSTN voice services, intelligent Network Services and Voice over IP services.

Our voice network combines both PSTN and IP technology and has multiple connections to Top Tier Carriers, including 15 separate full Interconnects with BT in London, 10 separate full Interconnects with BT in Bristol and 3 Full Interconnects to BT at Reading.

Our IP Network has multiple Tier 1 Transit Suppliers as well as peering at LINX (London Internet Exchange).

Wherever feasible, there is always back up options such as multiple carrier choices, multiple routers and multiple equipment locations.

Redundancy

Redundancy is the most critical aspect of any Telecom or IP based service and TTNC's infrastructure is designed with no single point of failure and meets the highest industry standards.

Network redundancy

Every link in the network has a backup link, if any link fails then an internal routing protocol re-routes the calls over a backup link in seconds.

Systems and database redundancy

All critical systems including database servers are configured in active/standby pairs and clusters for immediate and stateful failover in the event of an active system failure.

Hardware redundancy

Services are operated on clusters of Switches and Servers to mitigate the risk of hardware failures, every network has a minimum of two Cisco routers.

Network Operations Centre (NOC)

In case of complete outage in one of our NOC's, all call traffic would be immediately re-routed to another NOC.

NOC redundancy

Two geographically separate Network Operation Centre's (NOC's) located in London and Bristol.

TTNC Network Summary

- Cluster of 7 Redundant Switches in Telehouse, London
- Cluster of 2 Redundant Switches in the Reading Data Centre
- Cluster of 3 Redundant Switches in the Bristol Data Centre
- 3 separate Network Operation Centre's - London, Bristol, Reading
- 15 Full Interconnects to BT at Telehouse
- 10 Full Interconnects to BT at Bristol
- 3 Full Interconnects to BT at Reading
- Next Generation Network (NGN)
- LINX Peering at Telehouse, London
- PSTN, Intelligent Network and VoIP Services Supported
- Fully Redundant Network and Hardware Solution

Freephone: 0800 468 1000

Telephone: 020 3151 1000

Email: sales@ttnc.co.uk

Visit us: www.ttnc.co.uk

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