



Toranet Service Brief

Network Health Check

- ✓ **Discover** Network audit to show operational status of all equipment in use
- ✓ **Identify** Find strengths, weaknesses and establish priority areas
- ✓ **Minimise Risk** Establish the steps to remove threats and network issues
- ✓ **Optimise** See how to achieve a faster and more reliable network

If IT services are to perform as intended then the network must be designed appropriately. Each device will need to be correctly configured in accordance with best-practice guidelines and operating without issue. Even if the network infrastructure is optimised for the environment, a healthy network is still reliant on applications and network users behaving as expected.

Keeping the network in a healthy state and governing the use of network bandwidth relies on multiple variables. Situations can easily change and issues that impact on IT services, their availability and performance can quickly develop. Security is a primary consideration when assessing network health and vulnerabilities must be identified.



Network Audit – This will provide an inventory of network devices and document key findings. The audit will include a period of traffic analysis to provide an indication of network performance.

Prioritised Report – The network consultant who carries out the audit will summarise network strengths and any issues in need of remedial measures.

Security Status Report – Security is a fundamental requirement when considering the health of a network. The report will include details of the security measures in place and if any vulnerabilities require attention.

Scalability Statement – The report will provide an estimate of the available capacity for growth in network utilisation. It will consider if the network design contains bottlenecks or the potential for bottlenecks in the future.

Failure Tolerance – The network design will be assessed for its ability to tolerate component failures within the network. The presence of single points of failure will be highlighted and recommendations for remedial steps included in the report.

Impact Assessment – The impact assessment will outline how IT services are affected by the configuration of the network. This will provide valuable insight into the suitability of the network in relation to how an optimised network might be designed and configured.

Action Plan – The report will summarise the steps required to address the identified issues. In some instances this will take the form of a change programme showing any inter-dependencies.

Firmware Revisions

Network devices such as switches, routers and firewalls will occasionally need the firmware revisions that they run to be updated in accordance with the recommendations of the manufacturers. This is a requirement for the maintenance services provided by equipment manufacturers. A request for support on a device that has fallen behind the supported versions of firmware will result in delays while the firmware is updated.

The network health check service provided by Toranet will review the firmware revisions of all devices and compare these with the recommendations provided by each manufacturer. The action plan will include details of any firmware updates required.



Manufacturer Agnostic Service

The health check service can be performed on most network equipment. The scope will be agreed on a case by case basis.

In order to maintain a consistently healthy network, it is advisable for a health check to be carried out at regular intervals. The frequency will depend on the rate of change in the network, utilisation levels and whether there are many revisions to the IT services that rely on the network.

Toranet can provide regular network health checks as part of an annuity contract with reports provided on a monthly or quarterly basis.

