



## ● WAN Optimisation ●

Your major IT initiatives – data centre consolidation, cloud computing, unified communications, virtualisation and disaster recovery – all share a common theme: they presume a well performing Wide Area Network.

The reality though is that most Wide Area Networks (WANs) are unable to compensate for the increased packet loss, latency and bandwidth problems endemic to both contended dedicated links and publicly shared infrastructure. Applications running across these networks often underperform, inconveniencing your users whilst also raising support and deployment costs.

### **The solution – WAN Optimisation-as-a-Service (OaaS)**

OaaS solves these problems by supporting a complete spectrum of real-time optimisation techniques, which optimise WAN performance by overcoming common bandwidth, latency and network quality challenges.

Because OaaS, unlike most competing solutions, can optimise all IP traffic including UDP and is scalable from bandwidths of 512kbps right up to 1Gbps, it is a key enabling technology for any business looking to implement desktop virtualisation. Other WAN optimisation solutions have difficulty de-duping XenApp and VDI traffic because they add too much latency.

OaaS is the ideal solution to optimise application virtualisation, cloud computing, online backup, data centre consolidation, disaster recovery solutions, and unified communications. It enables deployment of collaboration tools such as desktop sharing and video conferencing to remote offices without the need to upgrade the WAN; saving money and reducing lost productivity associated with travel.

An OaaS client is also available for deployment on laptops, tablets and smartphones for mobile or home workers connecting over 3G or broadband connections.

Within the data centre OaaS can be deployed as a virtual appliance and is hardware platform independent, leveraging all the advantages of server virtualisation, including High Availability, VMotion, and Distributed Resource Scheduling.

By leveraging existing virtualisation management and configuration tools, OaaS dramatically reduces deployment time.



daisy.

## How the Service Works

OaaS provides three technology components that work in real-time primarily at the network (IP) layer to correct the problems undermining effective throughput:

### Network Acceleration

TCP and other protocol acceleration techniques minimise the effects of latency on application performance and significantly improve application response time across the WAN.

### Network Integrity

Adaptive Forward Error Correction mitigates packet loss by reducing the need for retransmissions when routers are oversubscribed. Packet Order Correction is a real-time solution for overcoming out-of-order packet delivery across the WAN. OaaS employs a variety of Quality of Service and traffic shaping techniques to optimise traffic handling, including advanced queuing, scheduling, and standards-based packet-marking.

### Network Memory™

Each appliance inspects WAN traffic at the byte level and stores copies of content in high-capacity disk drives. Advanced finger-printing techniques recognise repetitive patterns for local delivery so data is only sent across the WAN once. Network Memory operates at the network layer and supports all IP-based protocols including TCP, UDP and RTP.

## Our Approach

### Assess and Profile

Understand the current network profile (Network Base Line Analysis). Identify the business critical applications and create a policy platform for ensuring best possible and consistent application delivery.

### Test and Deploy

Deliver an environment to conduct a Proof of Concept. Produce a project plan for the roll-out deployment.

### Support and Report

Provide 24/7 support for the duration of the contract and access to a Management Portal that provides a dynamic landscape of the end user's remote location estate. We also have the ability to adjust/tune the end user's policy platform dynamically (typically within 24 hours) and provide annual new application impact analyses.

## How you benefit

### Features

OaaS optimises IP applications including:

- Backup and recovery applications, including asynchronous backup/replication tools from EMC, HDS, NetApp, Symantec, Double-Take and other leading vendors
- Traditional TCP applications, such as Windows file sharing, MS Exchange, MS SharePoint, Siebel, Oracle and VMware
- Non TCP applications, such as Veritas Volume Replicator, Aspera, EMC Disk library and Brocade FCIP
- Interactive applications, like Virtual Desktop Infrastructures, Citrix XenApp, Sunray and Remote Desktop Protocol
- Real-time applications, like VoIP, video conferencing, video streaming and other unified communications

OaaS secures all data in situ and transit:

- Appliances use AES encryption to protect data stored locally
- IPSec encryption protects data sent between appliances. Advanced algorithms ensure that data security is achieved with no impact on application performance

### Benefits

- Alleviates bandwidth congestion and latency challenges for all IP traffic
- Traffic transmission reduced through byte level de-duplication – creating an effective 5x increase in capacity whilst reducing data consumption and costs
- Reduces the need for costly and time-consuming WAN upgrades
- Improves user productivity through faster access to file servers
- Annual license-based “as-a-Service” OPEX pricing avoids large-scale capital expenditure

To find out more about Daisy consultancy services speak to one of our specialists today:

 **0800 040 88 88**

 [sales@daisygroup.com](mailto:sales@daisygroup.com)

we are **daisy.**  
www.daisygroup.com