

## Network Services

We can meet your connectivity needs with our comprehensive set of Network Services. You may want connectivity between physical sites, from mobile devices to the Local Area Network (LAN) or across multiple applications. We can help with all of this, and can also manage your domain naming.

### Advanced Core Network Services

#### Internet

We can offer dedicated or shared internet connectivity depending on your needs, and will fully manage and support this connectivity throughout our service's lifecycle.

- > Our service offers you both logical and physically separated connectivity
- > We can support the public Provider Independent IP address you have been allocated. Alternatively, we may be able to improve your internet routing efficiency with Provider Aggregated address space
- > We can also enable Web traffic filtering if you want to restrict non-business access to the Internet

#### Point-to-Point and Point-to-Multi-Point Connectivity (including connectivity to 3rd parties and Public Cloud Infrastructure)

If you need connectivity between your IT infrastructure and business premises, our Point-to-Point connectivity provides resilient connectivity with full service management. If you

require connectivity across multiple sites, we can offer you Point-to-Multi-Point connectivity. Our service also enables connectivity to major Public Cloud providers.

#### Highlights of our service also include:

- > Design of your network, including the IP addressing scheme, connectivity security and access control, with your unique business needs in mind
- > We will provide, monitor, and scale your band-width

#### Site-to-Site Connectivity via Virtual Private Network (VPN)

Site-to-Site connectivity via VPN provides fully managed and highly secure connectivity over a public network infrastructure.

#### Our service includes:

- > Design of the connectivity, including the IP addressing scheme, connectivity security, key management and access control, as your business requires

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- > Management and support, including consistent monitoring and reporting as part of site to site VPN connectivity

## Local Area Network

At Advanced, we can provide you with LAN migration, design and management services, addressing enterprise infrastructure design for enterprise IT deployments. In addition, both office wired and wireless LANs can be designed, deployed and fully managed by us.

### Our LAN migration offers the following:

- > We will document the details present on the network, along with accurate traffic flow details
- > Keeping your business requirements in mind, we will work out how best to deal with any challenges involved with your migration
- > Our team will prepare your base infrastructure to ease the migration of your services to the new infrastructure, whilst ensuring resiliency is maintained
- > If required, we can re-design IP addressing, or modify the IP Addressing to suit the environment, and we will also secure the LAN with access control
- > Wireless migration additionally covers current and planned users, typical traffic profiles, the bandwidth requirement, types of devices allowed access, the location of the access points, and network and security requirements

If a new LAN is required, our Green Field Deployment will address both enterprise network infrastructure models and user access.

### Activities that will take place during this process include:

- > Gathering an understanding of your business, the number of locations you have, and/or users present that have the scope for expansion
- > Deciding on the type of network topology (Core, Distribution and Access) you require
- > Establishing necessary interconnectivity for your business

- > We will ensure resilient connectivity from the Datacentre to your business premises
- > We will design your network with your business in mind. This will include: an IP addressing scheme; securing the LAN with access control to avoid rogue access; providing patch management to the hardware at regular intervals; identifying any potential vulnerabilities; and proactive monitoring of the network to ensure its security and functionality
- > Where Wireless LANs are in scope, we will additionally scope the topology requirements, and deploy, configure and secure the access points to meet the needs of the users and the business

## Application Delivery Control (ADC)

- > Our Application Delivery Control Service enables application workloads to be spread across a number of servers, or sites. Where CPU intensive encryption services are used, we may also be able to improve the efficiency of your servers by offloading CPU intensive workloads to the Application Delivery Controller. This enables your applications to easily and efficiently scale out, while driving optimum operational efficiency of the compute environment. The service includes design, deployment, management, and support.

### Below are the technical capabilities of our ADC Component:

- > Source Network Address Translation with Customer Prediction algorithms to have a single, unique IP address for an entire group of computers
- > Server Health monitoring
- > HTTP acceleration
- > Application security including Secure Socket Layer termination which utilises encryption to pass confidential information
- > Application load balancing (for web, enterprise, Cloud and SaaS applications)

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## Domain Name System (DNS) Management

Our DNS Management service means you can hand over the responsibility for administering DNS records for specified domains. These DNS records may be used for multiple purposes including; translating domain names to IP addresses, defining SMTP mail exchangers, pointer for reverse DNS lookup and domain name aliases. Our expertise enables us to handle this responsibility, securely and efficiently, on your behalf.

Our support service is here to respond to any DNS related issues that you may have, and as with all of our management services, we can support you throughout the lifecycle of your product.

## More information

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