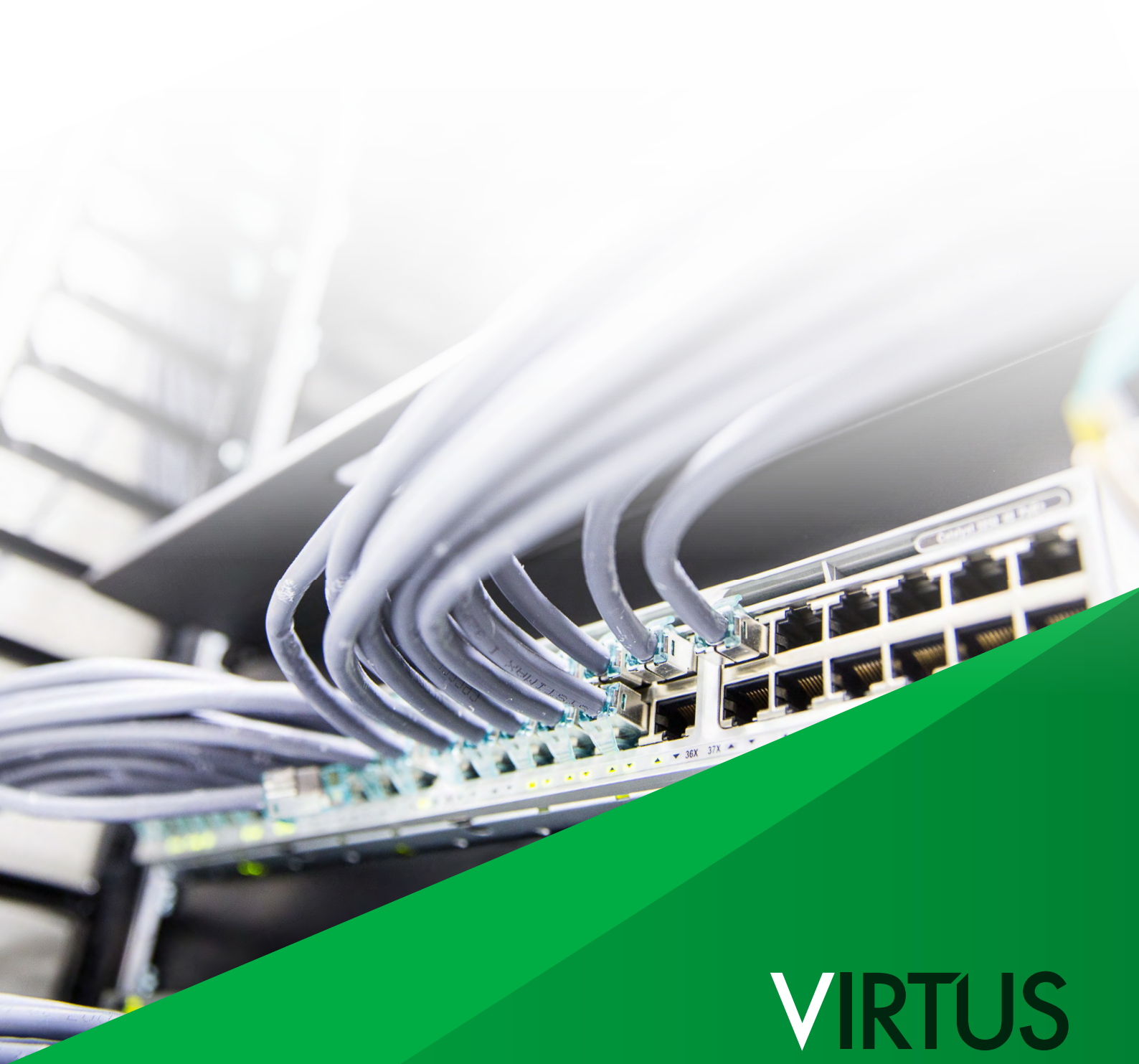# Managed Cloud Connect Infrastructure

VIRTUS' provides customers with Managed Cloud Connect Infrastructure to meet their public, private and hybrid cloud business requirements.

VIRTUS
Data Centres

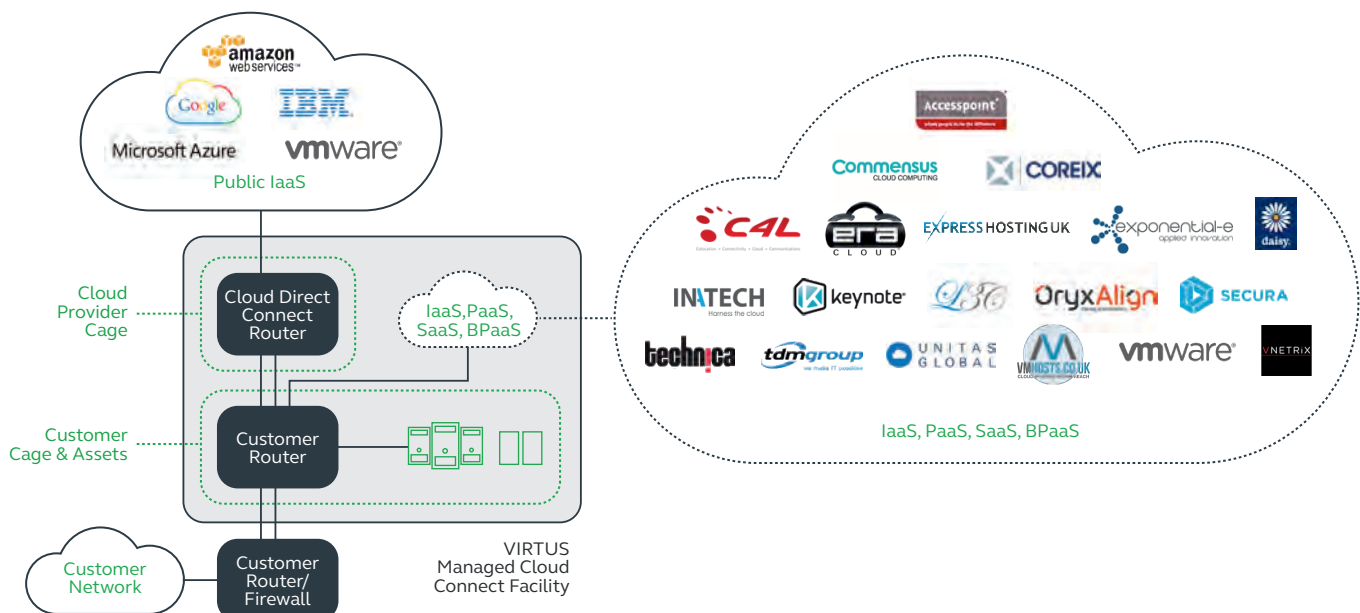# Managed Cloud Connect Infrastructure

Managed Cloud Connect Infrastructure has become a deciding factor for customers looking for public, private and hybrid cloud requirements and this has, in turn, required that providers ensure that they can meet customer needs with as many connected locations and a range of direct access cloud service providers. By investing in diverse fiber duct infrastructure, VIRTUS has enabled service providers to easily interconnect to VIRTUS' data centers and pull fiber through from existing routes, minimising additional construction works needed. Resilient and diverse 'meet me rooms' provide space in the data centres where cloud service providers can physically connect to one another, exchange traffic and easily offer services to VIRTUS' customer base and ensure customers have the widest choice of managed cloud connect infrastructure without having to rely solely on the public Internet for access and address the Security, Performance and Quality of Service challenges.

Locations

VIRTUS' data centres are all located within London's 'Goldilocks Zone'. Close enough to both London and other data centre ecosystems to allow for mission critical data replication services, but far enough from both to satisfy physical disaster recovery requirements. All the data centres are located within the M25, in London's Zone 5, providing easy access, unparalleled connectivity and low, submillisecond latency to major Points of Presence (PoPs). With an extensive portfolio of national and international providers and services, VIRTUS' customers have access to a wide range of connectivity solutions to meet their business requirements.

Benefits

› Public Cloud solutions with direct access to Amazon Web Services, Microsoft Azure, Google Cloud and other major providers

› Extensive access to over 20 Infrastructure, Platform, Software and Business Process as-a-service providers, growing all the time through the VIRTUS' Marketplace

› Managed Cloud Connect Infrastructure is available in scalable increments (100Mb to multiple GB) with flexible commercial terms

› VIRTUS' data centres are well connected to the top Tier 1 and Tier 2 carriers and networks worldwide Global Reach

› High Capacity interconnects to over 250 other data centres

› Fibre (Dark and Grey), Wavelength, Ethernet, MPLS/VPLS and IP services

› Interconnection with all major global internet exchanges

› Low latency, resilient, high bandwidth connectivity options on multiple fibre paths

Other VIRTUS solutions

In addition to having a rich ecosystem of third party service provider products, VIRTUS also offer a number of other solutions.

Cross Connect

Allows customers to access services within the data centre utilising either copper or fibre cabling with a range of connector types to suit all applications. Cross Connects can be ordered easily through the VIRTUS service desk and are provisioned quickly with visibility of delivery available throughout the process.

Interconnect and Metro Connect

Allows customers to connect their applications within a VIRTUS data centre to other services that may reside in their other corporate buildings or with other third party data centres. Customers have the choice to design and create interconnections based on specific needs or can take advantage of the fact that VIRTUS' data centres are already interconnected within many service providers own metro connected portfolios providing near instant, scalable high bandwidth. These pre-connected solutions also come with the benefit of fast provisioning times and large scale pricing advantages for Fibre, Wavelengths and Ethernet services. For the latest info go to marketplace (http://virtusdatacentres.com/services/portals/marketplace/).

Transit

Gives customers direct IP access available from 10mb to 100Gb and is available on a best value 'Enterprise' basis or as an 'On-Demand' service where commitment is variable.

DDos Mitigation services

Through discussion with customers, VIRTUS has recognised the need for companies to have an easy access choice of DDoS mitigation services and has partnered with a few key solution providers so that our customers digital data and systems are able to deal with attacks should they materialise when deployed at one of VIRTUS' datacentres.
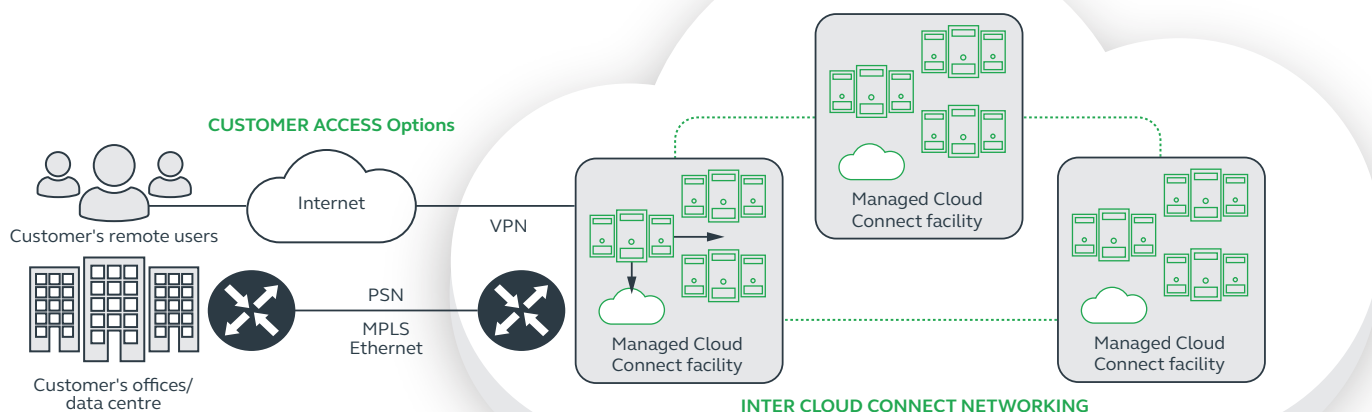
While the individual solutions vary, common features are as follows:

> Network-based mitigation

> Volumetric and application layer attack mitigation

> Layer 3 to Layer 7 attack mitigation

> Re-routing of traffic through scrubbing centres

> Full range of proactive and reactive (emergency) mitigation offered

> Direct, BGP and GRE options for customer IP transit choice

Peering

VIRTUS' customers benefit from being able to connect with The London Internet Exchange (LINX). This gives customers the benefit of reduced latency, increased resilience, improved transit performance and routing control as well as increased capacity and redundancy at lower cost. LINX is a mutually owned membership association for operators of Internet Protocol networks. They provide a neutral interconnection facility and peering platform, known as an Internet Exchange Point (IXP).

As a result of the partnership, VIRTUS has become an official LINX Virtual PoP (vPoP). VIRTUS' customers will benefit from being able to connect with over 632 other LINX members from over 65 countries and exchange low cost internet traffic without the need to have Equipment at a main LINX PoP.

Service Provider options and Market Place

Service providers offer a wide range of connectivity solutions for customers to take advantage of and are summarised below

- ❯ Dark Fibre
- ❯ Grey Fibre/Spectrum
- ❯ Connectivity Wavelengths 1Gb/10Gb/40Gb/100Gb
- ❯ Ethernet from 10mbps plus (Point to Point or Point to Multi Point)
- ❯ IP Transit from 10mbps plus
- ❯ IP VPN
- ❯ DDos protection
- ❯ CDN
- ❯ Caching Services
- ❯ NaaS
- ❯ VOIP
- ❯ Access to Public Cloud (AWS/MS Azure)
- ❯ Access to LINX London Internet Exchange
- ❯ Access to all major internet exchanges

To discover the latest information on which service providers are available from VIRTUS, please visit the VIRTUS Market Place (http://virtusdatacentres.com/services/portals/marketplace/).

Why VIRTUS

- ❯ Agile Commercials
  - › VIRTUS agile solutions have brought true commercial and technical flexibility to the data centre market.
- ❯ Enhanced Security
  - › We operate 6 layers of security with the ability for customers to tailor their solution.
- ❯ Hyper Efficiency
  - › Using the latest in cooling and power distribution technologies, we offer the lowest PUEs.
- ❯ Intelligent Design
  - › Our data centres are designed using our award winning modular and scalable principles.
- ❯ Limitless Connectivity
  - › Having every fibre owner/reseller in our data centres, every other carrier is a cross-connect away.
- ❯ Optimised Locations
  - › We choose locations that are optimal and own the freehold to our data centre land.
- ❯ Quality Credentials
  - › High Quality is at the heart of everything we do, from connectivity to security.
- ❯ Service Excellence
  - › We are proud to exceed customer expectations around transparency, flexibility, responsiveness and quality of service.
- ❯ Total Cost of Service
  - › Our data centres offer the lowest PUEs available in a UK Tier III colocation environment and we are the only provider offering VIP, a transparent portal with DCIM capability as part of our standard service.

About VIRTUS

VIRTUS Data Centres, the UK's fastest growing data centre provider, owns, designs, builds and operates the country's most efficient and flexible data centres. VIRTUS leads the industry with award winning innovation in hyper efficient, ultra-high density and highly interconnected facilities.

Located within London's metro, VIRTUS offers the best of traditional retail and wholesale colocation models, combining dedicated support and complementary ecosystems with low cost, scalable and custom solutions, in uniquely flexible and customer friendly packages. Customers also benefit from Tier III certified, ultra-secure facilities, that provide 100 per cent uptime; protecting and connecting data, applications, networks and clouds within VIRTUS Data Centres and the global digital economy.

For more information please go to: www.virtusdatacentres.com or contact us on twitter: @VirtusDCs

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