

HOW IT WORKS

IP Hub is a wholesale service designed so you can provide high value solutions to your customers while we transparently connect multiple sites together to create a private layer 3 network.

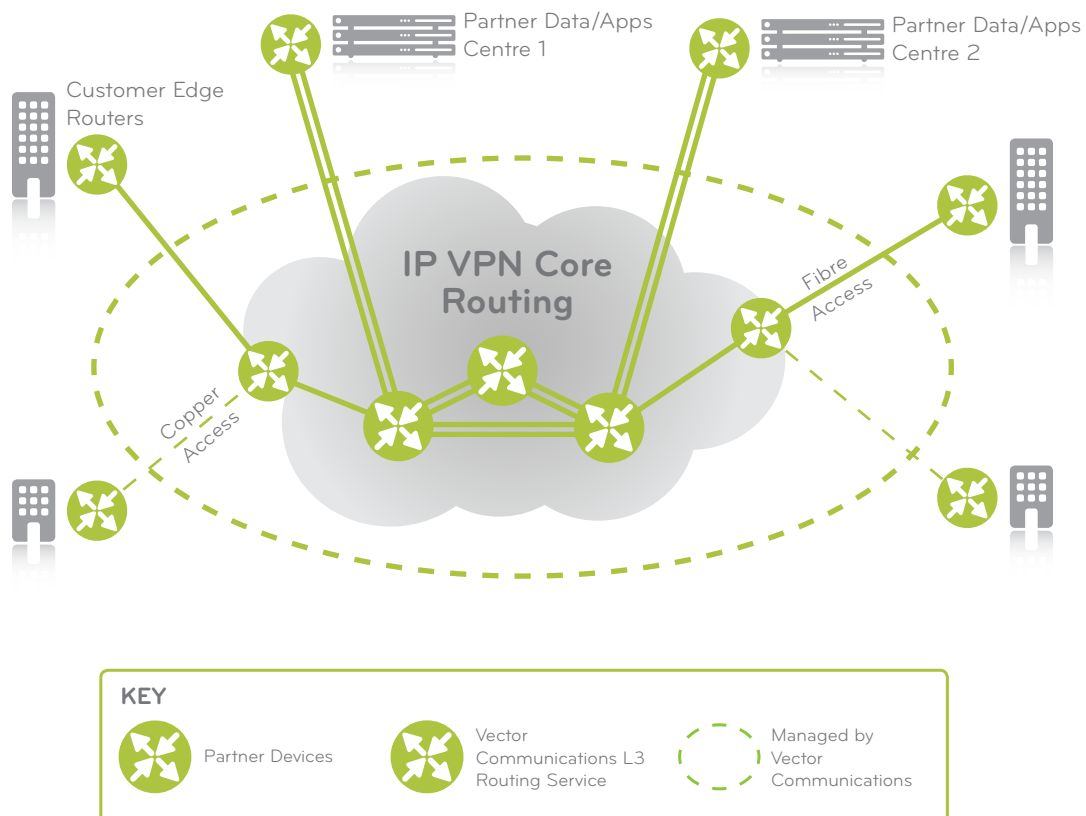
You can add your own high value solutions to IP Hub such as, IP voice, managed video conferencing, contact centres, hosting, centralised recovery and data centre services.

Traffic prioritisation can be used to optimise the network for each different type of traffic, such as real time voice, video, business data (such as SAP), and credit card transactions ensuring a dependable service experience.

End user services and applications can be accessible and shared by users at any location. This will cut down on duplication and drive standardisation therefore reducing your customer's costs.

TECHNOLOGY OVERVIEW

IP Hub connects your customers' sites together by creating a private wide area network. A router at each customer's site (provided by the customer or the reseller) passes data over a private leased line to our virtual routers located in national POPs. These central routers forward the data, manage prioritisation, and ensure it gets to the destination.



EXAMPLE SOLUTIONS USING IP HUB

- Enable collaborative working and video conferencing between locations.
- Improved productivity through centralisation of data and applications.
- Manage backup and data recovery from a central location.
- Migrate from legacy voice services to voice over IP or convergent communications.
- Easily integrate cloud-based business applications, or hosting.

SERVICE SPECIFICATIONS

Characteristics	Values	Comments or Conditions
Contract Term	12, 24 or 36 months	
Availability	Availability depends on access type and will be Standard or Enhanced. Target availability for Standard Service is 99.7*% Target availability for Enhanced Service is 99.9*%	For full SLA please see IP Hub Service Legal Agreements.
QoS	3 classes of service are supported: 1. Bulk Data 2. Assured Forwarding 3. Expedited Forwarding Extended products consuming third-party access services where QoS isn't provided are best effort only.	Values are valid for in-profile traffic only. IP Hub offers either a single Class of Service — i.e. all packets are treated the same (in accordance with the table above) or multiple classes of service. In order to classify the packets ingress PE routers inspect the IP DSCP bits.
IP Address Schema	IPv4	
MTU	1500 (default)	
Exchanges	Wherever UFB, HSNS and EUBA are available.	
POP	Available on any VectorFibre POP. List of POPs available on request.	
Protocols/Routing Type	<ul style="list-style-type: none"> • None • Static i) Prefixes to be routed towards CE (ref: VR-C1.2) • RIP v2 • OSPF i) OSPF area number (ref: UVR-C1.4) • BGP i) CE's AS number (ref: UVR-C1.5) ii) Password, if required (ref UVR-C1.6) 	
Redundancy	Full Path only, etc. For BGP and Static routing only.	If the service is providing redundancy specific design is required.
Routes/Prefixes	There are 5 available: 0-99, 100-199, 200-499, 500-999, 1000+	

Characteristics	Values	Comments or Conditions
Access Types	VectorFibre HSNS Premium HSNS Lite (Fibre) HSNS Lite (Copper) EUBA UFB (all Local Fibre Companies)	Internal
Access Speed	1, 2, 3, 5, 7, 10, 100 Mbit/s and 1, 10 Gbit/s	Into core node from access path.
Bandwidth	1, 2, 3, 5, 7, 10, 15, 20, 30, 40, 70, 150, 200, 300, 500, 700, 800, 900 Mbit/s and 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Gbit/s	The bandwidth available will depend on the access method chosen.
Encapsulation		Encapsulation and VLAN tag values (Dark Fibre Only).

* Calculated as the availability of the service across a 12 month period and excludes planned outages. Higher availability levels available on request.