

Magrathea IP Interconnect

Interconnect with Magrathea, to ingress and egress traffic directly between two networks, has a number of advantages:

- Greater control over connectivity and routing
- Reduced single points of failure
- Eliminate transit costs
- Eliminating port charges

Connectivity Options

There are several ways in which a partner may choose to interconnect to Magrathea and these are detailed below.

Border Gateway Protocol (BGP) – Direct Cable

For ISPs with a BGP router this will be the simplest and most cost effective and resilient solution. The ISP can arrange for cabling the connection (either Copper or Fibre) to our facility in Telehouse East and you will need to supply us with your AS Number, a /29 IP address range, the IP address for your BGP router and how many prefixes you will be sending us. *Failover to general internet required for greater resilience.*

Border Gateway Protocol (BGP) – Peer via London Internet Exchange (LINX)

LINX is one of the world's largest Internet Exchange Points and Magrathea are a member. If a partner uses any of the ISPs that are also LINX members their traffic will be routed extremely efficiently over the peering network. This option is ideal for any partner that wants reliable connectivity without the expense and maintenance of a physical direct connection to Magrathea. *Failover to general internet required for greater resilience.*

General Internet

The partner must satisfy themselves that they have sufficient bandwidth and resilience for this option. We would also encourage use of TLS/SRTP encryption for greater security.

Third Party connection via Datahop VLAN

Magrathea have an interlink with Datahop (6Degrees Group) giving partners located in any of the other interlinked datacentres access to our network without having to pay for physical connectivity. To find out more about using this service please contact Datahop/6degrees directly on 0800 012 8060. Once you have established a relationship with them you will need to contact us to set up the VLAN and carry out testing. This connection will be considered private and will also require a BGP peering to be established over the link. Private AS numbers can be supported.

Commercial Agreement

Magrathea believe that an IP Interconnect should make things simpler and therefore our commercial proposition reflects that. By excluding transit and conveyance charges we would simply charge each other the published rates.

To keep admin to a minimum our agreement requires one party only to raise an invoice and offset the other party's revenue.

Traffic Type	Calls to Magrathea ranges	Calls to Partner ranges
Geographic	Partner to pay Magrathea full FTR rate	Magrathea to pay partner full FTR rate
Non-Geo (084, 087 & 09)	Partner to pay Magrathea full Service Charge rate	Magrathea to pay partner full Service Charge rate
UK Wide (03)	Partner to pay Magrathea 'Single Tandem' rate	Magrathea to pay partner 'Single Tandem' rate
Freephone (080)	Magrathea to pay partner full regulated rate	Partner to pay Magrathea full regulated rate

Number Portability

Magrathea currently partner with a considerable number of UK networks to support number portability for our clients. We are happy to establish portability with any interconnect partner that also has their own ranges and/or hosts ranges. The usual service establishment process will need to be followed but just mention that you have an IP Interconnect in place and we will ensure traffic is routed directly rather than utilising the default BT transit solution. This has the obvious benefit of eradicating call conveyance costs and transit costs.

Next Steps

To proceed with an IP Interconnect with Magrathea please contact us at support@magrathea-telecom.co.uk or on 0345 004 0040 (+44 118 321 0321) and we will send you a copy of our agreement for your consideration.

Once the agreement is signed and connectivity in place, we will arrange a short test phase during which we will require calls to be passed in both directions and call records to be shared. Once both parties are satisfied that the service is of a suitable standard, we will agree a date on which to switch traffic to directly route on the interconnect.