

COLT IP Access

Fast, robust connectivity to the Internet

COLT IP Access offers secure, reliable and cost-effective connections to the Internet, with a variety of access methods from traditional leased lines and SDH to Ethernet and SDSL/ADSL, and a wide range of optional features. IP Access is backed by COLT's comprehensive service level agreement (SLA) and award-winning customer service.

COLT is a Tier 1 Europe-wide Internet service provider (ISP), with over 1,100 peering interconnections and a 2.5Gbps wholly-owned backbone network that is monitored and managed 24 hours a day, 7 days a week.

Choice and scalability

COLT IP Access is available over a wide range of circuit types and capacities, to meet both your current and future bandwidth requirements. You can choose from the following circuit types:

- > Fast Ethernet/Gigabit Ethernet
- > ADSL/SDSL
- > E1, Nx E1, E3, DS3 and STM1

Wide range of features

The following features are provided as standard with the IP Access service:

- > Domain-name registration and hosting
- > Primary and secondary domain name server (DNS)
- > Support for both provider-aggregated and provider-independent IP address space
- > Near-real-time, web-based performance reporting

You can also opt to take any of these additional features:

- > Range of optional applications, including e-mail and shared web space
- > Security services, including router-based firewall
- > A fully configured, managed and maintained COLT Managed CPE router
- > Dual entry for the access circuit, for fibre-connected buildings

Enhanced availability

To ensure near-continuous service uptime, you can incorporate additional resilience into your COLT IP Access service, as follows:

- > Resilient dual access — multiple diverse COLT circuits
- > Resilient multiple ISPs — multiple circuits from diverse ISPs
- > DSL or ISDN backup

These options are illustrated in the diagram overleaf.

Flexible billing

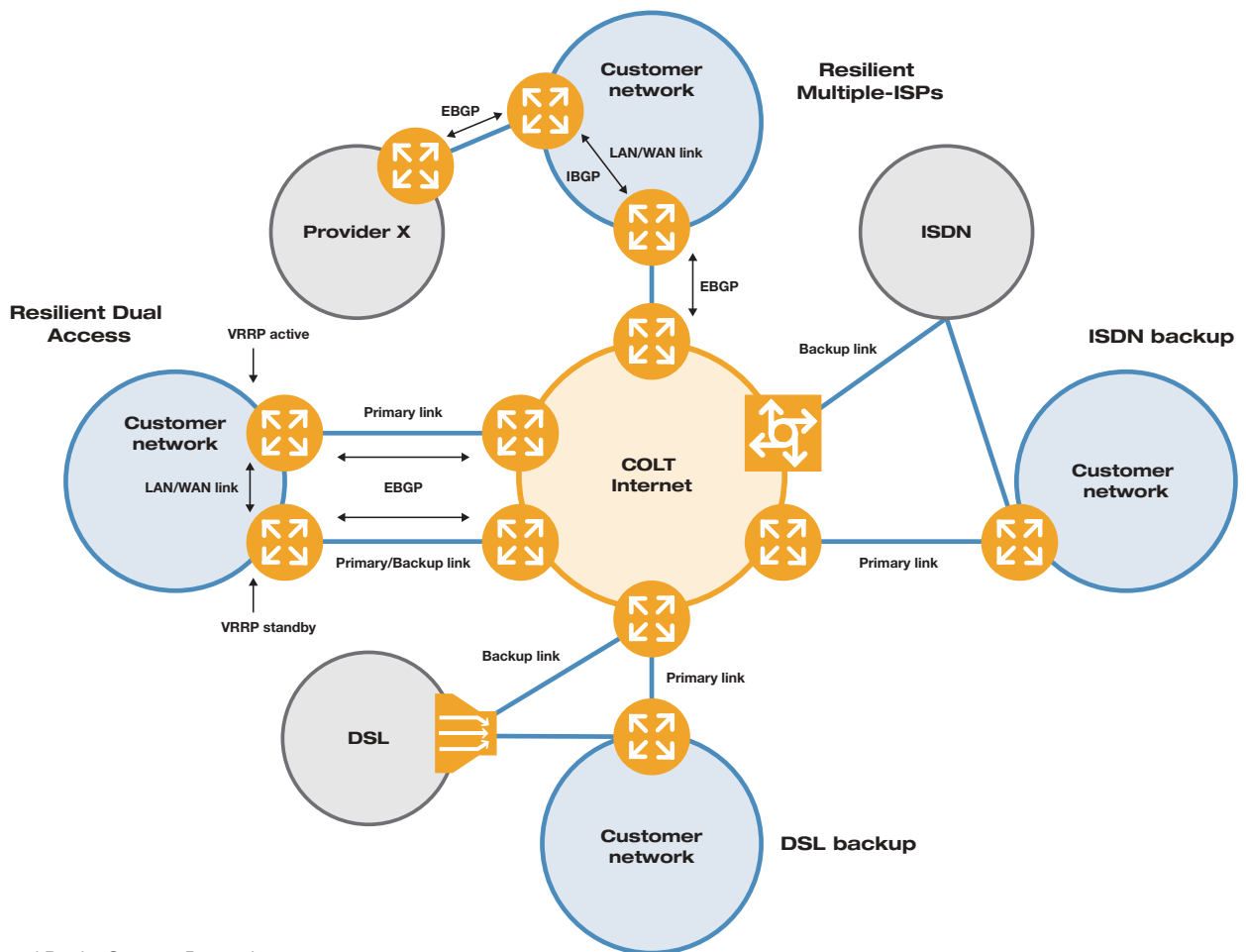
You can choose either traditional fixed-fee pricing or usage-based billing (UBB). Depending on the country in which you are located, there may be two UBB options:

- > 95th percentile: This is based on a committed level of bandwidth and an excess usage charge. The excess charge is calculated by taking five-minute samples of both inbound and outbound traffic. At the end of the measurement period, the samples are sorted and the top 5% of samples discarded. The next-highest sample, the 95th percentile, is used to calculate the bill
- > Per GB: This type of charging is based on a line rental charge and a usage charge, calculated by measuring both inbound and outbound traffic volume. At the end of the billing period, these samples are added together to calculate the bill

Technical Specifications	
Access circuit types	Fast Ethernet, Gigabit Ethernet, ADSL/SDSL, E1, Nx/E1, E3, DS3 and STM1
Service bandwidths	256kbps to 1Gbps and more
Transport technology	IPv4
Routing protocols supported	BGP4, VRRP
Managed router	✓
Network address translation (NAT)	✓
Number of IP addresses	Eight by default for IP Access and 16 for resilient dual access, more on request
Domain name registration/transfer	✓

Technical Specifications (continued)	
Flexible billing	✓
Enhanced availability	ISDN backup, DSL backup, resilient multiple ISP, resilient dual access
Online reporting	✓
Service level agreement	Availability, time-to-repair and latency targets
Mail relay/backup	✓
Shared web space	✓
E-mail	✓
Dynamic host configuration protocol (DHCP)	✓

Figure 1. COLT IP Access – fast, robust connectivity to the Internet



Key:
IBGP: Internal Border Gateway Protocol
EBGP: External Border Gateway Protocol
VRRP: Virtual Router Redundancy Protocol