

Leased Line

MPLS

LDSL

Cost ○ Vs Bandwidth ●



Leased DSL 2 for Business Key Benefits:

- Maximise the capabilities of today's connectivity technologies
- Improved control and network management
- Real time data reports for every site on a network
- Reduced costs while improving operational performance
- Add or remove sites to your WAN quickly and
- Upgrade bandwidth to your entire WAN and give priority to specific sites

Leased DSL 2 (LDSL 2) is a powerful wide area network (WAN) management solution that controls every aspect of a multi site WAN. From one site to over a thousand sites, LDSL 2 provides full monitoring and reporting capabilities whatever the size of network.

Connecting multiple sites over large distances has been made easier and cheaper thanks to advances in ADSL (broadband) technology. However ADSL lacks the reliability and visibility that dedicated Leased Lines can provide. LDSL 2 monitors and controls multiple connections over a WAN, allowing organisations to harness cost effective bandwidth on a large scale while not compromising on resiliency and availability.

Developed in-house by Powernet, LDSL 2 has been specifically developed from the ground up to manage WAN solutions and support industry standard Service Level Agreements (SLAa). LDSL 2 automatically monitors connectivity to each remote site. However you choose to connect your multiple sites, be it ADSL, Fibre, leased lines or even 3G, LDSL 2 can provide complete control.

Adding sites to a network is an easy process using LDSL 2, a web based interface gives an overview of the state of all sites on a WAN. Once a site has networking hardware (typically a Cisco router) installed, updating router configurations can be done remotely. This remote process means that making multiple changes to sites can be made from one central location without the need to send network engineers on-site.

Disaster Recovery

If the worst should happen and connectivity is lost LDSL 2 can seamlessly move all affected sites to a backup connection (typically 3G or ISDN). When business continuity is essential LDSL 2 supports an additional third level of connectivity in case primary and secondary links are down.

If connectivity to a central site is lost LDSL 2 can be configured to move all site connections to a secondary site. Employing a "master/slave(s)" architecture allowing LDSL 2 to replicate itself almost instantaneously to a co-located slave (DR Site).



Fig 1. Overview screen



Fig 2. Site latency graphs



Fig 3. Site traffic graphs



Fig 4. Site reports and information

Performance and Usage Analysis

Running a Wide Area Network is a large investment for any business and so it is vital that performance and usage are monitored. It is important that every site on your network is getting the most bandwidth for your bucks.

LDSL 2 provides summary reporting of all sites, giving detailed reports on bandwidth, latency, packet loss and line noise. These reports are available in daily, weekly, monthly and yearly time frames. All data can be exported for use in third party analysis tools.

User Console

All access to LDSL 2 is via the applications web based console. Fire up your favourite browser and start managing your network. All access is restricted by source IP, username & password and all of this is sent over secure socket layer (SSL).

Controls and alarms can be set for automated notification to the NMC support and customer staff via email, telephone and pager.

Technical Specification

Software

Datstore	Postgresql (standard configuration)
User Console	Web based supports: Internet Explorer 7 + Mozilla/Firefox 3+ Webkit 2+ (Safari & Chrome)
Management Server OS	Linux

Hardware

Management Servers	Resilient / Failover pair
DSL and ISDN Router	Cisco 887 for ADSL and ISDN Cisco 1841 for Dual Bonded ADSL Cisco 2811 for Quad Bonded ADSL



Service Levels

Managed Service	LDSL 2 has been designed to comprehensively manage all active network components for a Broadband WAN solution. This includes performance monitoring to support an ongoing fully managed service
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