

Leased Line Technical Data Sheet

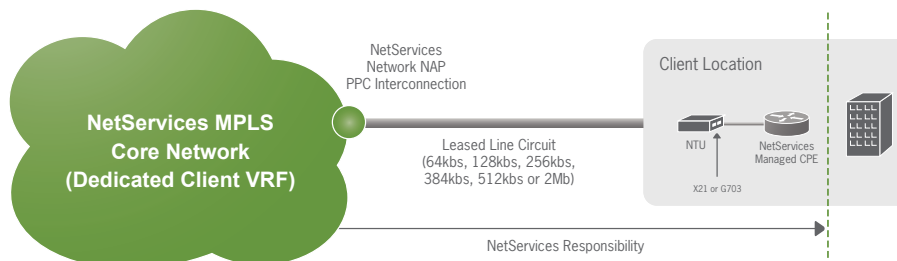
Leased Line circuits can be used as access circuits as a part of a MPLS-VPN or Internet Access solution or to provide point to point solutions for inter-site connectivity.

As a mature Time Division Multiplexing (TDM) technology Leased Lines provide the assurance of enhanced performance levels and boast a premium SLA. The non-contended, symmetrical bandwidth enables Quality of Service (QoS) techniques to be applied and supported. These characteristics make Leased Line the most suitable access circuits for locations where performance and service availability, rather than bandwidth, are the critical factors.

As a carrier independent provider NetServices has extensive national and metropolitan coverage. NetServices Leased Line circuits provide fixed speed connectivity to locations at various bandwidth levels from 64kb/s to 2Mb (64 kb/s, 128kb/s, 384kb/s, 512kb/s and 2Mb/s) with higher bandwidth circuits E3 (34Mb/s), T3 (45Mb/s), STM1 (155Mb/s) or greater, available on request.

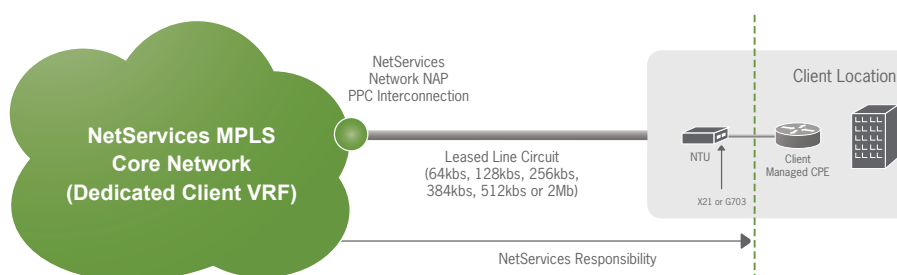
Leased Line in a Managed Service

As part of a managed service NetServices will typically supply a Cisco 1800 series or greater model router, sited at the customer site.



Leased Line in a Supported Services (wires only)

Where the Leased Line circuit is supplied on a wires-only basis, the point of demarcation is the third-party carrier provided NTU. NetServices require the customer to provide a method of monitoring the circuit between our network and the customer premises. This needs to be a loopback interface using a NetServices designated IP address specifically configured for monitoring purposes. The point of demarcation for this service is illustrated in the diagram below.



Service Elements

Presentation	X21 or G703 (wires-only) or RJ45 (managed)
Local Access	BT or third-party Copper/Fibre
Topology	Hub and Spoke, Point to Point
Backup Options	Leased Line, SDSL, ADSL, ISDN
Support	Core Hours or Extended Hours
SLA Summary	Service Fulfillment - 45 working days Fault Resolution – 6 hours Service Uptime – 99.8%

When used as MPLS VPN access circuits, Leased Lines are delivered into the NetServices network via network access points at one of the three NetServices Super POPs in Manchester, Salford and London. At customer sites the third party supplier will install the local access circuit and a Network Terminating Unit (NTU).