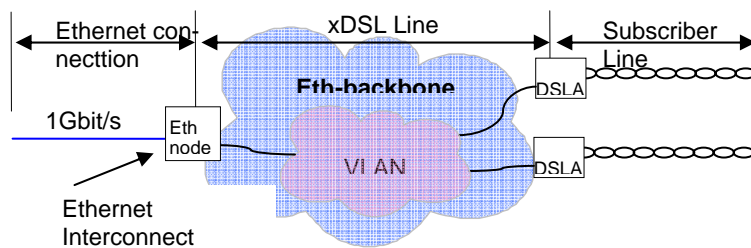


xDSL Line

Ethernet xDSL Line , VLAN per subscriber group



The Ethernet xDSL Line is an asymmetrical (ADSL) or symmetrical (G.SHDSL) digital subscriber line data connection implemented through the Ethernet backbone network. The line comprises a VLAN from the subscriber port of the DSLAM directed through the network to the interconnection point. The same VLAN is used for several xDSL Lines (a group of lines).

The supported network protocol is bridged RFC 2684¹. The MAC addresses allowed per xDSL subscriber port is limited to 10 and a MAC address translation may be used by Elisa to protect the core network from duplicated MAC addresses. The DHCP Option 82 information field may be used for xDSL Line authentication and identification. The information in the Option 82 field has a maximum length of 20 bytes.

The subscriber line to be connected to the xDSL connection can be implemented either by leasing it from Elisa or from another operator or by using the customer's own cable.

If the subscriber line is leased from Elisa (or another Elisa Network Service Provider) the terms, conditions and prices are based on the valid Leased Line Price list.

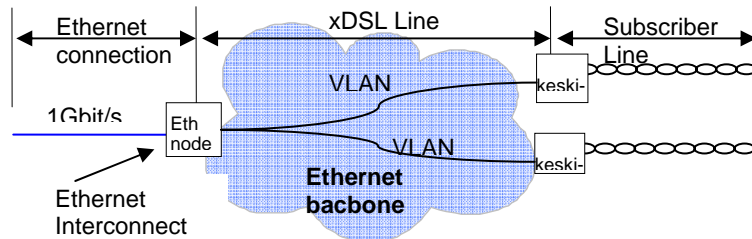
The Ethernet interconnect is connected to the Elisa backbone through a 1Gbit/s optical (single mode) connection. The Ethernet interconnect may be delivered to the customer in Elisa premises or brought to the customer's premises through an Ethernet connection which is priced separately.

VLAN numbering, VLAN per subscriber group

The VLAN used in the VLAN per subscriber group is VLAN 10.

¹ RFC 2684 Routed, PPPoATM and PPPoEthernet are not supported in a VLAN per subscriber group.

Ethernet xDSL Line, VLAN per subscriber



The Ethernet xDSL Line is an asymmetrical (ADSL) or symmetrical (G.SHDSL) digital subscriber line data connection implemented through the Ethernet backbone network. The line comprises a VLAN from the subscriber port of the DSLAM directed through the network to the interconnection point. The VLAN is used for one xDSL Line (VLAN per line).

The supported network protocol is bridged RFC 2684². The MAC addresses allowed per xDSL subscriber port is limited to 10 and an MAC address translation may be used by Elisa to protect the core network from duplicated MAC addresses. The DHCP Option 82 information field may be used for xDSL Line authentication and identification. The information in the Option 82 field has a maximum length of 20 bytes.

The subscriber line to be connected to the xDSL connection can be implemented either by leasing it from Elisa or from another operator or by using the customer's own cable.

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The Ethernet interconnect is connected to the Elisa backbone through a 1Gbit/s optical (single mode) connection. The Ethernet interconnect may be delivered to the customer in Elisa premises or brought to the customer's premises through an Ethernet connection which is priced separately.

VLAN numbering, VLAN per subscriber

The VLAN range used in the VLAN per subscriber is VLANs 20 – 4096.

² PPPoATM and PPPoEthernet are not supported in a VLAN per subscriber.

The Transport Network Component

The transport network component is added to the xDSL Line charge if the interconnect is in a different price zone than the xDSL Line. The trunk network charge is added to the MTC of every xDSL Line transported through the national core network to the interconnect.

Please ask for availability before ordering.

The agreed nominal xDSL Line speed shall be guaranteed at all times from the xDSL concentrator to the subscriber line.

Network Control and Response Time

Elisa operates and monitors its core Ethernet and xDSL networks on a 24h/365 bases. Repair on these networks is commenced immediately if a fault occurs.

Fault response time refers to the number of hours within which Elisa Corporation takes action to remove the fault based on a fault alarm and/or a report made by a customer.

Action to repair interferences and faults discovered in Elisa's xDSL trunk line, including central switching equipment, shall be taken immediately, the response time being a maximum of 30 minutes.

The basic level response time in xDSL connections provided by Elisa Corporation is a maximum of 4 hours from receipt of the fault report. The service operates during normal office hours 8 am to 4.30 pm, Monday to Friday. Repair work can be done outside these hours at the separate request of the customer.

Basic level service is included in the price of the connection to the normal access network.