

Elisa Ethernet Leased Line Service

Elisa Ethernet Leased Line Service provides the customer a point-to-point transmission channel using Ethernet technology. The service is located at layer two in the protocol stack reference model. Inherent to Ethernet technology, the service is transparent with regard to the higher protocol layers. The Ethernet virtual private line generated for the customer is closed, so traffic within the leased line is secured. Elisa Ethernet Leased Line service is available with multiple connection speeds nationwide in Finland and in selected International destinations.

Content of service

Ethernet Leased Line is composed of two end points (“subscriptions”) which are delivered to Customer sites, and of the logical channel (EVC, Ethernet Virtual Circuit) between them. The service is technically based on Elisa’s domestic and international Multiprotocol Label Switching (MPLS) network.

The content of Ethernet Leased Line is the following:

- Connection through available technology (selected by Elisa) from Elisa’s backbone network to customer location
 - In a fibre connection, the handover interface in the building distribution centre is single mode fibre 1000Base-BX10-D. Therefore Customer equipment needs 1000Base-BX10-U interface. When the fibre connection length exceeds 10 km, the handover

interface is 1000Base-LX. Similarly, the handover interface for connections of more than 1G is 10GBaseLR (LAN PHY) or 10GBASE-ER (LAN PHY) depending on the length of the fibre.

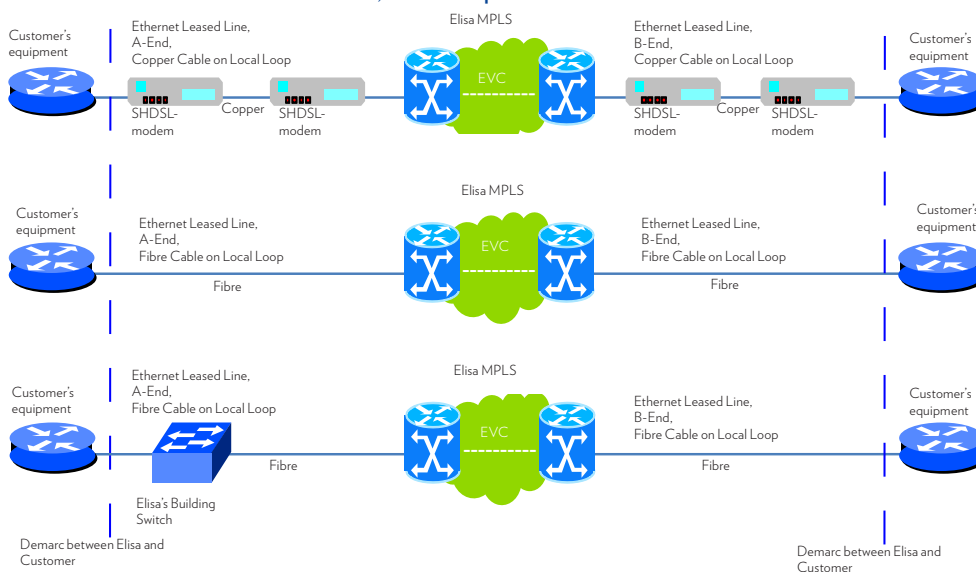
- In a copper connection, the handover interface is the terminal device port RJ-45 placed on end user premises.
- In a connection implemented from the building switch, the handover interface in the building distribution centre is either RJ-45 (copper cabling) or 1000Base-10BX-D (single mode fibre) according to the indoor cabling.
- Point-to-Point type of Ethernet switching between the two subscriptions in Best Effort Class of Service.
- SLA Basic Service Level

Additional services

The additional, optional services for the Elisa Ethernet Leased Line Service include:

- Quality of Ethernet traffic (CoS, Class of Service)
- International Services
- SLA Special Service Level
- Access Backup Service
- Dual-fibre implementation
- Customer premises equipment

Elisa Ethernet Leased Line reference framework, three examples



The handover interface is confirmed in the delivery confirmation/notification of completion.



One-time charge	
Delivery charge	€1250
Monthly charge	
Capacity 10M	€330
Capacity 20M	€356
Capacity 50M	€406
Capacity 100M	€490
Capacity 200M	€512
Capacity 500M	€578
Capacity 1G	€690
Capacity 2G	€1050

Additional services

Access Backup Service

One-time charge Access Backup Service	
Delivery charge	€690
Monthly charge Access Backup Service	
Redundancy models	
Pro	According to offer
Premium	According to offer
Premium +	According to offer
Ultra	According to offer

Dual-fibre Implementation

Monthly charge Dual-fibre Implementation	
Dual-fibre Implementation	According to offer



Customer premises equipment

Monthly charge of Customer premises equipment			
Capacity of connection	Access technology	Elisa CPE	Monthly charge
2M-10M	Copper + SHDSL modem	Cisco C892FSP Integrated Services Router	According to offer
10M-200M	Fibre	Cisco C892FSP Integrated Services Router	According to offer
2M-200M	Building switch	Cisco C892FSP Integrated Services Router	According to offer
500M-1G	Fibre	Cisco ME 3400 Series Ethernet Access Switch	According to offer
500M-1G	Building switch	Cisco ME 3400 Series Ethernet Access Switch	According to offer

One-time charges and monthly charges of the additional services are charged in addition to Leased Line's one-time charge and monthly charge. All prices in this price list are exclusive of tax. VAT and any other taxes and other payments stipulated by the authorities will be added to the prices shown here. Prices apply to the connections to Elisa's existing network. The actual availability will turn out in connection of an availability enquiry or an order.

Ethernet Leased Line's both ends shall be situated in the same Elisa SMP area. Ethernet Leased Line connections between Elisa SMP area and other areas will be priced according to the Elisa's offer.

Elisa's General Terms for Operator products will be applied to the agreement.



Market areas according to FICORA's regulation

Elisa SMP areas market 4

Area 4							
Alavieska	Haapavesi	Halsua	Kalajoki	Kannus	Kokkola	Kruunupyy	Lestijärvi
Merijärvi	Nivala	Oulainen	Pyhäjoki	Raahe	Reisjärvi	Sievi	Siikajoki
Toholampi	Ylivieska						
Area 12							
Espoo	Hausjärvi	Helsinki	Inkoo	Järvenpää	Karkkila	Kerava	Kirkkonummi
Loppi	Nurmijärvi	Riihimäki	Sipoo	Siuntio	Tuusula	Vantaa	Vihti
Area 18							
Haapajärvi	Hankasalmi	Joutsa	Kannonkoski	Karstula	Keuruu	Kinnula	Kivijärvi
Konnevesi	Kyyjärvi	Kärsämäki	Laukaa	Multia	Pihtipudas	Pyhäjärvi	Pyhäntä
Saarijärvi	Siikalatva	Soini	Toivakka	Uurainen	Äänekoski		
Area 32							
Ilmajoki	Isojoki	Karjoki	Kauhajoki	Kurikka	Laihia	Mustasaari	Teuva
Vaasa	Vöyri						
Area 33							
Ilomantsi	Joensuu	Kontiolahti	Liperi	Outokumpu	Polvijärvi	Rääkkylä	
Area 34							
Isokyrö	Kauhava	Kuortane	Lapua	Seinäjoki			
Area 37							
Juuka	Lieksa	Nurmes	Valtimo				
Area 56							
Kotka							
Area 61							
Lempäälä	Nokia	Orivesi	Pirkkala	Tampere	Vesilahti	Ylöjärvi	
Area 65							
Luumäki							
Area 70							
Muurame							
Area 74							
Oripää	Pöytyä						
Area 75							
Paimio	Sauvo						
Area 81							
Raisio							
Area 86							
Suonenjoki							

