

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 10G is 10GBaseLR (LAN PHY) or 10GBASE-ER (LAN PHY) depending on the length of the fibre.

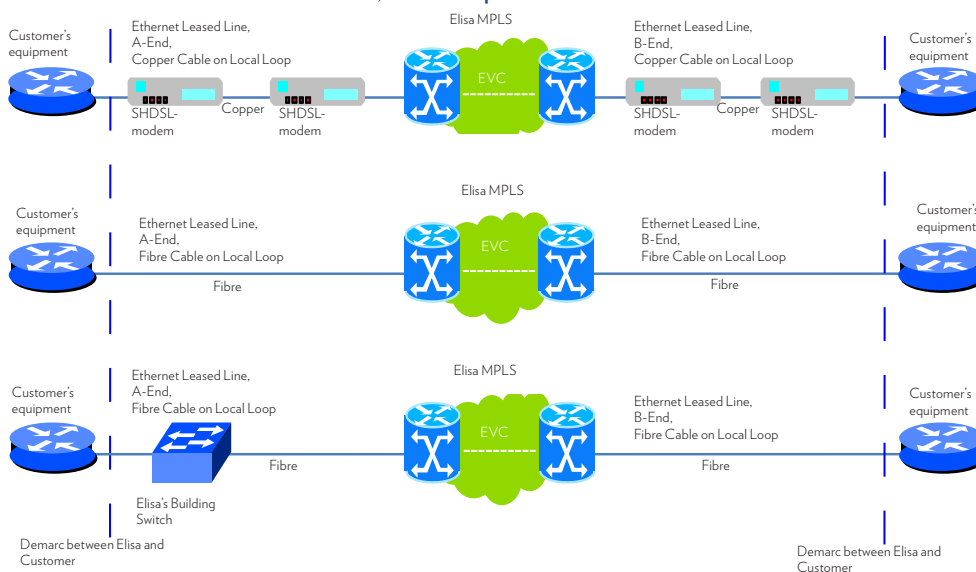
- In a copper connection, the handover interface is the terminal device port RJ-45 placed on end user premises.
- In a connection implemented from the building switch, the handover interface in the building distribution centre is either RJ-45 (copper cabling) or 1000Base-10BX-D (single mode fibre) according 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	Area 1
Delivery charge	€1250
Modification to connection, no installation by an engineer	€210
Additional engineer visit (Minimum pricing is 2h)	€98/h
Monthly charge	Area 1
Capacity 10M	€450
Capacity 20M	€500
Capacity 50M	€560
Capacity 100M	€640
Capacity 200M	€660
Capacity 500M	€720
Capacity 1G	€800
Capacity 2G	€1050

Additional services

Access Backup Service

One-time charge Access Backup Service	
Availability inquiry/ request for quotation	€336
Delivery charge	€690
Delivery coordinator	€252
Monthly charge Access Backup Service	
Redundancy models	
Pro	€10
Premium	€13
Premium +	€15
Ultra	€20

Dual-fibre Implementation

Monthly charge Dual-fibre Implementation	
Dual-fibre Implementation	€100



Customer premises equipment

One-time charge of Customer premises equipment	
CPE installation is made concurrently with delivery of Ethernet connection	€98
CPE installation is made separately	€294

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	€30
10M-200M	Fibre	Cisco C892FSP Integrated Services Router	€30
2M-200M	Building switch	Cisco C892FSP Integrated Services Router	€30
500M-1G	Fibre	Cisco ME 3400 Series Ethernet Access Switch	€139
500M-1G	Building switch	Cisco ME 3400 Series Ethernet Access Switch	€139

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.



Elisa SMP Areas		
	Area 1	
SMP Metropolitan Area:		
	Inkoo	Sipoo
	Järvenpää	Tuusula
	Karkkila	Vihti
	Kerava	Siuntio
	Kirkkonummi	Nummi-Pusula
	Nurmijärvi	
SMP Tampere Area:		
	Kangasala	Hämeenkyrö
	Lempäälä	Juupajoki
	Nokia	Orivesi
	Tampere	Pirkkala
	Ylöjärvi	Vesilahti
SMP Jyväskylä Area:		
	Jyväskylä	Muurame
SMP Joensuu Area:		
	Joensuu	Kontiolahti
	Outokumpu	
SMP Turku Area:		
	Lieto	Sauvo
	Paimio	
SMP Riihimäki Area:		
	Hausjärvi	Riihimäki
SMP Ostrobothnia Area:		
	Alavieska	Pyhäjoki
	Haapavesi	Raahe
	Kalajoki	Sievi
	Kannus	Siikajoki
	Merijärvi	Toholampi
	Nivala	Ylivieska
	Oulainen	
SMP Kotka Area:		
	Kotka	Pyhtää

