

Direct Wholesale Roaming Access Reference Offer

Scope

This document constitutes the unilateral reference offer of Elisa Corporation to direct wholesale roaming access seekers in accordance with Regulation 531/2012. The reference offer includes all the wholesale roaming services which are necessary for an access seeker to offer retail roaming services typically offered under wholesale roaming agreements on regulated terms.

Direct Access Roaming Prices

Elisa Corporation shall charge the Direct Wholesale Access Seeker the following rates for each transaction type from 1 July 2014:

Service	Tariff	Service Description
Voice MO (Mobile Originated)	0.05 Euro/minute	Mobile Voice Call originated and terminated within the EU territory
SMS (Short Message Service)	0.02 Euro/event	Short Message Service originated within the EU territory
Data	0.05 Euro/MB	Data traffic originated within the EU territory

Direct Access Roaming Services

This reference offer includes the following services:

Service	Authentication			RAN		
	SIM	USIM	EAPSIM	GSM	UTRAN	WLAN
Circuit Switch Services						
Telephony	X	X	N/A	X	X	N/A
Emergency Calls	X	X	X	X	X	
SMSMT	X	X	N/A	X	X	N/A
SMSMO	X	X	N/A	X	X	N/A
Voice Messaging	X	X	N/A	X	X	N/A
Alternate Speech and Facsimile Gr3			N/A		N/A	N/A
Automatic Facsimile Gr3	X	X	N/A	X	N/A	N/A
Asynchronous Data	X	X	N/A	X	X	N/A
Synchronous Data	X	X	N/A	N/A	X	N/A
Packet Switch Services	X	X		X	X	
Camel						
Camel Phase1	X	X		X	X	N/A
Camel Phase2	X	X		X	X	N/A
Camel Phase3	X	X		X	X	N/A
Camel Phase4						N/A



Service	Authentication			RAN		
	SIM	USIM	EAPSIM	GSM	UTRAN	WLAN
Supplementary Services						
Calling Line Identification Presentation	X	X		X	X	N/A
Calling Line Identification Restriction	X	X		X	X	N/A
Connected Line Identification Presentation						N/A
Connected Line Identification Restriction						N/A
Calling Name Presentation						N/A
Call Forwarding Unconditional	X	X		X		
Call Forwarding On Mobile Subscriber Busy	X	X		X		N/A
Call Forwarding On No Reply	X	X		X		N/A
Call Forwarding On Mobile Subscriber Not Reacheable	X	X		X		N/A
Call Waiting	X	X		X		N/A
Call Hold	X	X		X		N/A
Multi Party	X	X		X		N/A
Closed User Group						N/A
Completion Of Call Busy Subscribers						N/A
Call Deflection						N/A
Explicit Call Transfer	X	X		X	X	N/A
Barring Of All Outgoing Calls	X	X		X	X	N/A
Barring Of All Outgoing International Calls	X	X		X	X	N/A
Barring Of All Outgoing International Calls Except	X	X		X	X	N/A
Barring Of All Incoming Calls	X	X		X	X	N/A
Barring Of All Incoming Calls When Roaming Outside HPMN Operator	X	X		X	X	N/A
User To User Signalling						N/A
USSDMO	X	X		X	X	N/A
USSDMT	X	X		X	X	N/A
EMLPP						N/A
Network Features						
HSCSD Assymmetric	X	X	N/A	X		N/A
HSCSD Symmetric	X	X	N/A	X		N/A
ECSD			N/A			N/A
EDGE	X	X	N/A	X		N/A
UDI			N/A			N/A
HSDPA	X	X	N/A		X	N/A
HSUPA	X	X	N/A		X	N/A
Multicall						N/A
LCS						N/A



Technical Implementation

Elisa Corporation uses the following industry standards for IREG testing:

- IR.21 to test and confirm interconnection and interoperability between networks.
- IR.24 to certify and ensure correct functioning of circuit switched voice and SMS.
- IR.35 to certify and ensure correct functioning of packet switched services.
- IR.60 to certify and ensure correct functioning of CA-MEL prepaid services.

The full list of these technical standards and protocols are available upon request by the access seeker.

Security and Data Privacy

The parties commit themselves to observe the secrecy rules and maintain the data secrecy according to the data security and data privacy obligations under the European Regulatory Framework and further outlined in the direct wholesale access agreement.

Fraud Prevention

The parties shall implement fraud procedures as specified by the GSM Association within BARG Binding PRD BA.20.

Requirements on the Access Seeker

Elisa Corporation may require the following from the access seeker:

- A bank guarantee and/or upfront payment prior to commencement of the service start and during operations.
- Initial estimate of traffic volume per roaming service covered in the request.
- Provide the necessary information for system interconnection at the start of the service and on a continual basis.
- Provide test U/SIMs.
- Billing and transfer information.
- Any other technical information or information necessary to launch or assess compatibility of the service.
- Contact data of the access seeker.

Duration of the Agreement

When the agreement comes into force it shall remain in force unless terminated by one of the parties in writing subject to a notice period of six months or terminated as per the conditions stipulated in the direct wholesale roaming access agreement.

Modifications to the Reference Offer

- This reference offer will be updated as a minimum on an annual basis in order to update the regulated prices. If new methods of roaming access become available, Elisa Corporation will update this reference offer and amend any existing direct wholesale roaming access agreements to reflect such new methods of roaming access, including the processing of requests and access to necessary facilities.

For further information on this reference offer please contact: international.roaming@elisa.fi.

