



Connecting Large Scale Telex Customers

No change in customer workflow

- Connects the customer system in UK to the SwissTelex exchange
- Up to 46 telex lines can be connected
- No change of workflow in the customer system
- Connection over secure internet (encrypted)
- Your telex number and answerback stays the same
- Real-time telex (messages are not stored on the Internet)

Areas of application

The SwissTelex ITL box (Internet Telex Link) is a PC based product that provides a connection between the customer's telex system in UK and the SwissTelex exchange in Switzerland. The ITL can handle any size of customer system, but is particularly applicable for larger systems.

Because the customer's telex system is connected at the external telex line interface, no change in the customer's system is required. Consequently there is no change in the customer's current workflow.

Features

The connection between the ITL and the telex exchange is over the Internet. The connection is authenticated as well as encrypted using standard X.509 certificates and the Secure Socket Layer (SSL 128) protocol. The encryption (128 bits) is the same as that used for e-banking and e-commerce.

The connection is established in the direction of client (at the customer site) to server (at the telex exchange). Consequently, there is no requirement to open any port at the customer firewall.

The ITL is essentially a dumb transmission medium – it performs no message storage or switching functions. Telex messages are sent and received in real time under control of the customer system and the telex exchange.

Technical Description

Customer systems currently connect to the telex network in UK by means of standard V21 telex lines. Up to 46 such lines can be effectively long-lined to the telex exchange in Switzerland by means of an ITL unit on the customer premises.

The ITL interface to the customer system is via V21 telex line(s) which are connected to the ITL unit's integrated multiplexer. The ITL connects to a dedicated partner ITL in the SwissTelex exchange via a permanent SSL connection.

Alternative Solution

It is also possible to connect the customer V21 lines to the Telex Exchange over a conventional UK / Switzerland Leased Line using standard V26 modems. This solution offers all the functionality of the ITL solution but is more expensive because of the physical Leased Line Charges.



Large Scale Customer Solution

Facts & Figures

Line interface	
Connection	V21 connection(s) at customer premises
Protocol for connection to Telex Exchange	Internet TCP/IP: connection through SSL (Secure Socket Layer)
Connection setup	From Client (at customer site) to Server (at the telex exchange); the Server IP-Address and destination port on the server is defined by SwissTelex and set up in the Client software.
Client Firewall settings	Since connections are only ever initiated from the Client, normally no changes are required on Client Firewall. In any case, no port need be opened for unsolicited connections.
Authentication	With X.509 certificates (512-bits keys)
Encryption	Communication through the Internet are encrypted with 128-bit key strength
Certification authority	Swisscom Fixnet SA/Telex Services
Transmission speed	50 baud
Code	ITA No. 2
Internet/Telex-Gateways	Minimum two gateways available
Storage	
Reception storage/transmission storage	Telex messages are not stored. Telex characters transit the ITL at 50bd cadence.
Internal components	
Multiplexer	Siemens
PC manufacturer	Dell
PC Operating system	Microsoft XP Pro
PC – MultiplexerHW interface	Sealink sync board
PC – Multiplexer communications protocol	R101-B
IP requirements	
IP connection	Permanent IP connection e.g. Broadband
Client IP Address	Normally a permanent IP Address but not necessarily so
Server IP Address	Permanent IP Address

The information in this document does not constitute a binding offer. It is subject to revision at any time.

18.12.2007

SwissTelex SA
via Vergiò 8
CH – 6932 Breganzona
Switzerland

phone: 0800 6122 691
fax: +41 (0)91 961 60 13
telex : 045 804 000 telex ch
e-mail info@swisstelex.com
URL: www.swisstelex.com/BT