

TELENET

TELEtraining Platform



Nearly every day we hear scare stories about security on the Internet. Frequently consumers and business quote lack of security as one of the key impediments to conducting business electronically. TELENET is developing solutions to overcome security barriers impeding the electronic commerce of tele-training courses on the Internet.

Telematics and training

TELENET aims to develop and validate a modular and interoperable teletraining platform that will address the needs of training centres, of users and of instigators (e.g. local, regional authorities) of training programmes.



TELENET will provide a solution enabling training service providers to create training offers (or to adapt existing ones) to the changing environment created by the Information Society, which means in particular to take into account the potential of the Internet and related standards, and to implement electronic commerce concepts in training service market sectors. TELENET will develop a teletraining platform creating a trusted environment meeting these needs.

Two market segments will be investigated: vocational education and training oriented to the public and the corporate training focused on company internal needs for staff training.

Raising the platform

In order to achieve the project objectives TELENET will:

- > identify the requirements of training centres, users (trainees, trainers, administrators) and instigators in a secure, user-friendly and interoperable teletraining platform;
- > develop a distributed infrastructure based on a local modular platform in each training centre - this will consist of three desktops: for the trainee, the trainer and the administrator;
- > enable the teacher, by the integration of these desktops, to personalise the learning path for the trainees depending on the training objectives, pace and results of each person;
- > develop a trusted environment based on smartcard technology and a central services platform to provide, in particular, management of user authentication, of e-payment, of IPR of course material, of privacy and users' rights. A certification feature will also be provided to certify that exchanges between teachers and learners really take place. This will allow the training centres to validate their training programmes for their instigators;
- > develop the platform by the integration of existing technology, by taking into account established and emerging standards;

- > validate the specific services for training centres and the common network services in field tests carried out by professional users in Italy and Poland, representing the two most promising market segments for TELENET: vocational education and training and corporate training;
- > prepare a technical implementation plan in order to start the economic expansion of the platform and achieve the critical mass needed for a wide deployment.

Secure and interoperable

TELENET will provide a solution for training centres to create teletraining offers adapted to the changing environment of the Information Society, taking into account the potential of the Internet and related standards and implementing e-commerce concepts in training market sectors. TELENET will rely on smartcard-based state-of-the-art security technology to implement conditional access, IPR management of multimedia course material, generation of proofs, privacy and electronic payment.

With industrial companies, specialists in security technology and teletraining solutions, experts in ergonomics and two training centres as users (a large corporate training service and a public training service operator) will ensure market-oriented project results.

The electronic delivery chain will be based on a public key infrastructure. TELENET solutions will give organisations the power and security necessary to deliver quality online education to trainees in the most cost-effective manner, taking into account needs for mobility and course assessment.

Project No:
IST-1999-10459

Duration:
30 months

Economic Sector:
Educational Media for Vocational Education and Training

Action Line:
Open Platforms and Tools for Personalised Learning

Full Title:
TELEtraining Platform

Project Type:
Education and Training Research

Start Date:
06/03/2000

End Date:
30/09/2002

Project Objectives:
TELENET aims to develop and validate a modular and interoperable teletraining platform that will address the needs of training centres, of users and of instigators (e.g. local, regional authorities) of training programmes

Target Audience:
Corporate training, lifelong learners

Keywords:
Interoperability; Standards and metadata; Vocational training

Technology:
Web design tools, database management, PKI technology (Public Key Infrastructure), smartcards

Project Co-ordinator:
Lydia Montandon
SchlumbergerSema Spain
Albarracin 25
E-28037 Madrid
Tel: +34-914-408616
Fax: +34-917-543252
E-mail: lydia.montandon@sema.es
URL: <http://www.telenet-platform.com>

Project Participants:
SEMA Group (ES)
Centro Studi E Laboratori Telecomunicazioni S.p.A (IT)
ENEL (IT)
eNETFINGER (ES)
Osrodek Informatyki - Terenowy Bank Danych Pomorskiego (PL)
rzedu Wojewodzkiego w Gdansku (PL)