



VTT produces research services that enhance international competitiveness of companies, society and other customers at all stages of their innovation process, and thereby creates the prerequisites for growth, employment and wellbeing.

VTT promotes the realisation of innovative solutions and new businesses by foreseeing the future needs of its customers already in strategic research.

With its 2,700 employees, VTT is the largest research organization in Northern Europe. VTT's Ventures operation creates profitable and growing technology and wellbeing as well as more effective use of VTT produced Intellectual Property Rights.

Contact

Mika Valkeapää
Business Development Manager
P.O.Box 1000
FI-02044 VTT, FINLAND
Tel. +358 20 722 6174
GSM: +358 40 187 9062
Fax: +358 20 722 7090
mika.valkeapaa@vtt.fi

Personal Information Repository (PIR) solution for repeated document delivery with high security needs

PROBLEM

Usually electronic document exchange is based on web site interaction or on using email. Interactive web site visiting takes considerable amount of consumer's time and attention. Thus it is not convenient for message oriented communications such as sending health, tax or other official documents. Also, email is increasingly exposed to junk mail, spamming and computer viruses.

INVENTION

Personal content storage is distributed into user terminals. While taking full advantage of the available processing and storage capacity of the user terminals, the solution enables light and easily maintainable server implementation. The approach also allows customers to keep legally valid documents under own control.

SOLUTION

The implemented solution (PIR) is an architecture based on document servers, which mediate information between service providers and customers over the Internet. In addition to secure connections using the SSL protocol the personal content is separately end to end encrypted along the whole path between the sender and the receiver. Several user authentication methods are possible. Currently authentication is based on either mobile phones or bank passwords. Smart card authentication and electronic signature solution is under development.

More information on PIR technology at <http://dokumenttijakelu.fi>

VTT is looking for an industrial partner to commercialize the invention.