

## Securing VPN on the Move



### Mobile Communications

Mobile Virtual Private Network (MVPN) is the key for exchange of business content between mobile users and the Internet and its usage is becoming increasingly important. Mobile communications in business demands a high security level including securing the data transferred through public networks such as the Internet because of this VPN (Virtual Private Networks) technology is becoming more and more popular. VPN technology is based on establishing a virtual tunnel across the public network between two end-points. The use of a virtual tunnel ensures that data is delivered to the correct destination and that it will be encoded in such a way, that only the recipient will be able to decode it.

### Everywhere Like At Home

Si.mobil d.d. is the second largest mobile operator in Slovenia whose services include standard voice services and data transfer. Si.mobil set up the project “Everywhere Like At Home”, to offer their current and future GRPS (General Packet Radio Service) users a MVPN service that will connect them to their local environment settings no matter where they are connecting without the need for a VPN client or software. The service must be reliable, easy to use, follow the standards of IPsec and scalable to meet future demands. VPN encoded data additionally contains redundant data, that narrows the communication channels and depending on the coding methods this redundant data can take away



# Create a world of confidence.



*“StoneGate...is very easy to manage and the process of connecting with 3rd party firewalls and VPN systems is a relatively simple task”.*

*Andrej Stajè,  
IT Systems Manager*

GPRS (General Packet Radio Service) systems offer packet switched data, multiple channel transfer, constant connection (“always online”) and better responsiveness. A significant advantage of the GPRS system is that network sources are engaged only when data is transferred. GPRS can be charged on the basis of quantity of downloaded data and not of time of occupying channels. Using GPRS mobile users will have a fast and more responsive mobile access to internet services. Additionally GPRS also gives access to information services (for example MMS) and fun services (for example Java™ games).

20% and up to 40% of bandwidth from data traffic in GPRS networks. GPRS itself supports traffic encoding so the additional VPN encryption is unnecessary.

At the initial planning stage of “Everywhere Like At Home”, Si.mobil focused on ensuring the fast throughput of data on the GPRS network when establishing MVPN services without the end user having to worry about the VPN link. Plus Si.mobil knew that the traffic from GPRS to the Internet must be transferred in a different manner to provide their users with mobility and a secure connection to their company network using Internet and VPN technology.

“By using a standard VPN solution across the GPRS network a ‘data loss’ of up to 40% could be devastating for our customers”, explains Aleš Zupan, Ph.D., from Si.mobil. “We needed a solution that would not only secure the VPN but would assist with performance rather than be a drain on it.” Si.mobil carried out intensive testing on a number of different VPN

products and in particular were looking for a solution, which was efficient, easy to administer and would easily interface with other third party firewalls. They found that StoneGate was the only firewall and VPN solution, which met all the service requirements.

“StoneGate is definitely the solution that met all our criteria”, says Andrej Stajè, IT Systems Manager. “Also due to its design, it is very easy to manage and the process of connecting with 3rd party firewalls and VPN systems is a relatively simple task. At the same time, the high availability part of StoneGate ensures the system reliability required in the telecommunications environment”.

## Worry Free

The GPRS tunnel is used to establish the call from the mobile user through mobile network to the Si.mobil’s switch, from here StoneGate creates a VPN tunnel to the user’s corporate network – data is exchanged between the corporate network and StoneGate by VPN and received by

**IP-VPN**  
Svet je tvoj dom.

**Povsod kot doma.**

**Preizkusite in se prepričajte!**

IP-VPN omrežje lahko tudi preizkusite in se sami prepričate, da vam bo močno olajšalo komuniciranje: ponujamo vam 14-dnevni preizkusni paket. Obsega en prenosni računalnik z GPRS telefonom in en dlančnik z GPRS telefonom, realizacijo varne povezave med omrežjem in omenjenimi napravami, šolanje in svetovanje pri uporabi storitve v obsegu 1 dan/človek, ter ostale storitve iz Podjetniškega paketa “Svet je tvoj dom”. Stroški testiranja znašajo 99.000,00 SIT\* za vzpostavitev testnega okolja ter stroške porabe govornih in GPRS storitev po tarifah Business in GPRS Unlimited.

Dogovorite se za preizkus - pokličite **01 54 40 8991**

\* Enciklopedija DOK  
Si.mobil d. o. o., Števarnikova cesta 130a, SI-1000 Ljubljana, tel.: +386 1 54 40 204, faks: +386 1 54 40 899, 080 42 11, info@posilov.si, www.si.mobil.si

vedno zame.  
**simobil**  
business

Conduct business in  
confidence.



*"StoneGate was quick to install  
and the administration control  
in StoneGate is excellent".*

*Boštjan Knap,  
Firewall and VPN specialist*

the end user from StoneGate via GPRS. "The final result is that the end user can access their corporate network and their own environment settings without having to worry about VPN client/software and without any degradation of service because they are not using VPN over the GPRS link", explains Aleš Zupan.

"We are very pleased with the inter-connectability of StoneGate. It has been able to successfully establish VPN tunnels with any IPsec compliant products including some less well known firewalls and routers." StoneGate features a centralised, enterprise wide management system and powerful management tools that drastically reduce the administrative burden.

The operating systems on the firewalls do not require separate administration and in fact can remain completely transparent. There is no need for separate operating

system management at the firewalls themselves after the initial setup. Other supported features include rule base templates, inheritance, sub rule bases, multiple administrator levels, extensive log filtering and pruning tools and the possibility of managing firewalls simultaneously from multiple management GUI's.

"StoneGate was quick to install and the administration control in StoneGate is excellent, which gives added security. The management system is very simple to operate and it is possible to section areas to give different people separate access rights so that one administrator could not accidentally gain entrance to the wrong area", states Boštjan Knap, Firewall and VPN specialist. "It is good to have a product which is easy to use, which meets our requirements whilst providing many features and benefits – we are very happy with the solution provided by Stonesoft".

#### Si.mobil in Brief

*Si.mobil d.d. is the second largest mobile operator in Slovenia whose services include standard voice services and data transfer. The company started with CSD (Circuit Switched Data) based data transfer services and are constantly in touch with the latest telecommunication technologies. A technology innovator, Si.mobil was the first in Slovenia to introduce WAP and GPRS, and in May 2001, they were the first mobile operator in Slovenia and among the first in the world to establish a GPRS (General Packet Radio Service) based data transfer service. Later as part of the mobilkom austria group, Si.mobil was the first to introduce GPRS roaming plus and MMS on the prepaid market. Si.mobil coverage reached 99% of the Slovene population in 2003 and the network is certainly one of the most quickly built in Europe. In November 2000 Si.mobil also became one of the three chosen concessionaires in Slovenia for the system of mobile telephony GSM 1800.*

*In July 2003, as the result of the partner collaboration between Si.mobil and Vodafone – Users of Si.mobil abroad will have access to a package of services, which Vodafone offers under the name Virtual Home Environment, which enables Si.mobil's users travelling abroad as well as travellers in Slovenia to feel at home. By simply using mobile phone short codes the customer can reach their own call centre or their own personal voice mail in any country that is part of the Vodafone community.*

## STONESOFT EXPERIENCE

Stonesoft Corporation (HEX: SFT1V) is an innovative provider of integrated network security and business continuity. Its StoneGate™ Security Platform unifies firewall, VPN and IPS, blending network security and end-to-end availability into a unified and centrally managed system for distributed enterprises where security, uptime, and ease of use are essential. StoneGate incorporates the award-winning load-balancing technology of StoneBeat®.

Enterprises that require advanced network security and always-on business connectivity can choose StoneGate for low TCO, best price-to-performance ratio, and highest ROI of any high-end firewall, VPN and IPS solution.

Founded in 1990, Stonesoft Corporation has corporate headquarters in Helsinki, Finland; Americas regional headquarters in Atlanta, Georgia; and Asia Pacific regional headquarters in Singapore. For more information, go to [www.stonesoft.com](http://www.stonesoft.com).



## THE STONEGATE PLATFORM

As the first highly available, load balancing network security solution of its kind, StoneGate sets a new standard for FW, VPN and IPS solutions. StoneGate provides a unified security platform with active-active clustering, load balancing and bandwidth aggregation for multiple Internet links and ability to transparently fail-over VPNs, all with the security and connectivity of an integrated FW/VPN.

- **Multi-Link Technology™** – Seamless fail-over between multiple ISPs and FW clusters for always-on connections
- **Increased Performance** – Analyzes and utilizes fastest possible connection through integrated intelligent load balancing between ISPs and FWs.
- **Multi-Layer Inspection™** – Combines the best aspects of application proxy firewalls with traditional packet filtering and stateful inspection technologies
- **Reduce Costs** – Eliminate network complexities and costs associated with multiple vendor solutions and travel time
- **Unified, Central Management** – Robust remote management, along with simple remote update, alert center management, reporting, diagram editor and hierarchy policy updates. Also integrates FW and VPN with StoneGate's IDS Plus solution into a unified platform.

StoneGate is available either as a software-based solution that capitalizes on existing hardware investments, or as Stonesoft's own integrated appliance eliminating complexity and costs associated with multiple-vendor solutions. All of Stonesoft's appliances include the standard enterprise level features with the only difference being the number of physical interfaces and performance level.

**STONESOFT**  
[www.stonesoft.com](http://www.stonesoft.com)

Stonesoft Corporation (HEX: SFT1V)  
is an innovative provider of integrated  
network security and business continuity.

Corporate headquarters  
Stonesoft Corp.  
Itälähdenkatu 22 A  
FIN-00210 Helsinki  
Finland  
tel. +358-9-476 711  
fax. +358-9-4767 1234

Americas regional headquarters  
Stonesoft Inc.  
1050 Crown Pointe Parkway,  
Suite 900  
Atlanta, GA 30338, USA  
tel. (770) 668-1125  
fax. (770) 668-1131

Asia Pacific regional headquarters  
Stonesoft Corp.  
90 Cecil Street  
#13-01 Carlton Building  
Singapore 069531  
tel. +65 6325 1390  
fax. +65 6325 1399