Smart Nomad Security (Smart-NS™)

Protection of mobile stations and remote control

All the studies are showing it: one of first priorities of security professionals is the protection of mobile stations. In companies, the security is often provided by a gateway (or UTM appliance) which contains ten or so protection modules aiming to clean the stream going in and out of the network. Therefore, in nomad conditions:

- The user gets out of the gateway's protective perimeter
- He evolves in unknown environments
- He gets out of administrators' supervision perimeter
- He is autonomous and his laptop has only one or two protective modules (antivirus and firewall).

While there is no efficient and adapted to the market product, Pradeo, a specialist in the mobile security, proposes the innovative solution: Smart Nomad Security.

Smart Nomad Security (Smart-NS): virtual gateway of embedded security on working stations – Worldwide innovation and patented process.

Smart-NS is a solution that includes software installed on mobile stations and a remote control platform. The capacity of this software to form a virtual security gateway between the computer and the network, thanks to a patented process, make it particularly pertinent. In other words, Smart-NS virtualizes and embeds a security gateway directly on the stations. In this way, since the users have this virtual gateway installed, the administrator has the guarantee that the users have the same level of optimal protection inside or outside their structure. This virtual gateway is a **worldwide innovation which allows facing in advance the attacks, before they even reach the operating system.**

Moreover, **the virtual gateway is able to detect the level of threat in the user's environment while he is in mobile state**. When a critical situation is detected, **Smart-NS puts the user in a preventive zone**.

The central platform proposed in SaaS mode (Software as a Service) available as web service or as virtual disc allows the administrators to **configure** in distance their security action, to oversee the upcoming dangers and **intervene** if necessary (for example when there is need to put the user in a preventive zone) in all stations equipped with the solution, no matter where they are located.

Elimination of attacks before they reach the operating system (worldwide innovation)

During the installation, the software reserves a small part of computer resources to create the virtual security gateway (it is totally unnoticeable to the user). From that moment, all the stream is passing through this gateway, which analyses the risk level by its 15 modules (cf. table: antivirus, firewall, etc.). So, when a user receives an attack, it is detected and then eliminated in the gateway level and never waits for the operating system to do so.
Advantage : the users have one of the best security protections in the market.

Main advantages

- Protection reinforcement thanks to our patented process of security gateway
- While the users are in mobile state, they have the same level of protection with that of their company
- Users' threat level is checked in real time, no matter where they are located
- Elimination of attacks before they reach the operating system **(worldwide innovation)**
- Detection of threat level in mobile users' environment and their placement in the preventive zone to anticipate any potential attack **(worldwide innovation)**
- Harmonization of the protection system despite the heterogeneity of operating systems **(worldwide innovation)**

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Detection of the threat level in the environment of a mobile user and its placement in the preventive zone (worldwide innovation)

As for the security, the problem of mobile working lies mostly in the unknown environment where the mobile users are placed. Smart-NS proposes administrators to define a limit of tolerance towards the attacks. If the virtual gateway, which was installed on a station, detects that the security level of the user is over this limit, it understands that the environment is dangerous and puts him automatically in the preventive zone. This preventive zone is something like a protection balloon where the user's accesses are limited. This process helps to anticipate and destroy potential attacks. The restrictions in this preventive zone are programmed by administrators through the control platform.

Advantage : Smart-NS has a preventive behavior which for the first time isolates the user before and not after the attack.

Harmonization of the protection system despite the heterogeneity of operating systems (worldwide innovation)

Since the security gateway is in virtual form, the protection system is completely independent of the operating system in use. In this way, the security updates (antivirus signatures, rules of intrusion detection, etc.), the software changes and the configurations of protection tools no longer depend on the operating systems of users, but rather on the single virtual gateway which is the same for all users.

Advantage : It is easier to get the protection system maintained.

Central security control and supervision of protection methods in mobile stations

Contrary to VPN solutions, which have only centrally controlled systems, Smart-NS has mixed construction: at the same time decentralizing the security means (the security gateway is directly embedded in the stations) and conserving the central administration through the control platform. In this way, you have both the advantages of exclusively centralized constructions (easier administration) and of decentralized ones (no central server dependence, better damage resistance, etc.).

Advantages : this construction keeps the advantages of centralization, while at the same time eliminating its disadvantages.

Other advantages

- The protection system is always active, the user can not turn it off
- There is no system modification: Pradeo's products are installed on the already existing construction
- Absolutely unnoticeable solution for users
- Lower administration time and cost
- Absolutely automatic updates

Demonstration version is available on our web site.

Used resources

- Memory :128 Mo
- Processor (core 2 duo 2,93GHz) : 2,3% on average
- Disc space : 1,3 Go
- Compatible OS : Windows XP (SP 1, 2, 3), Vista, 7, Mac OS X Windows server 2003 et 2008

Smart-NS	Platinium	Premium	Essential
Firewall	yes	yes	yes
Antivirus	yes	yes	yes
Anti spam	yes	yes	yes
Anti spyware	yes	yes	yes
Virtual security gateway	yes	yes	yes
URL filter	yes	yes	yes
Web access management	yes	yes	yes
Authentication	yes	yes	yes
Data encryption	yes	yes	yes
IDS-IPS	yes	yes	not configurable
Preventive zone	automatic	manual	manual
VPN SSL client	yes	yes	-
VPN IPSEC client	yes	yes	-
Voice IP protection	yes	yes	-
Instant messaging protection	yes	yes	-
Advanced log analysis	yes	-	-
LDAP Linking	yes	-	-

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