## Tokenless, Two-Factor Authentication

**Server Operating System**
- Swivel PINsafe is available on our preconfigured hardened Red Hat Linux or Windows 2003 (Web Edition) appliance or can be installed on your own hardware with the following operating systems.
  - **Windows**
    - Windows 2000 Server
    - Windows 2000 Advanced Server
    - Windows 2003 (Web Edition)
    - Windows XP Professional
    - Server 2003 (Web Edition)
  - **Linux**
    - EnGarde
    - Red Hat
    - Mandrake 9.1
    - Debian Sarge
    - 8, 9, 10
  - **Solaris**

**Environment** | Version | Future | Additional Notes |
---|---|---|---|
Server Operating System | Windows 2000 Server | | |
| Swivel PINsafe is available on our preconfigured hardened Red Hat Linux or Windows 2003 (Web Edition) appliance or can be installed on your own hardware with the following operating systems. | 2000 Advanced Server | | |
| | Server 2003 (Web Edition) | | |
| | Windows XP Professional | | |
| | EnGarde | | |
| | Red Hat | | |
| | Mandrake 9.1 | | |
| | Debian Sarge | | |
| | 8, 9, 10 | | |

**Browser**
- For administration pages, and single-channel authentication, eg. Turing
  - Internet Explorer
  - Galleon
  - Opera
  - Mozilla
  - Firefox
  - Netscape

**Agents**
- The RADIUS and Agent XML interfaces provide APIs for protecting virtually any web or corporate application or network.
  - IIS
  - RADIUS
  - Unix/Linux C
  - Windows Logon (Gina)
  - Apache
  - Microsoft (tm) ISA Server

**Samples**
- Various sample are available to help evaluate PINsafe.
  - asp
  - .net
  - jsp
  - PHP

**Firewall/VPN**
- PINsafe is Radius compatible, and can act as a Radius Server and/or Radius Proxy.
  - The Firewalls and VPNs listed here have been tested successfully with PINsafe, but any PINsafe should integrate with any Radius compatible system.
  - Aventail
  - Checkpoint Firewall-1
  - Nortel
  - Netscreen
  - Mitel
  - Nortel
  - Citrix
  - ES
  - Juniper

**Mobile phone/PDA**
- Dual-channel functionality is possible using any mobile phone, PDA or pager capable of receiving an SMS message or email. Additional platform specific midlets are also available for the devices listed.
  - All SMS capable devices
  - All email capable devices
  - Pocket PC
  - Palm
  - Java capable phones (eg. Nokia 6310i)
  - Java capable PDAs (eg. Ericsson P900)
  - Blackberry

**SMS Gateway/provider**
- Dual-channel SMS functionality is possible using eg. An XML gateway to mobile providers such as those listed here. Many phones are also addressable using email-to-SMS facilities, free on most networks.
  - mblox
  - Z31 (China)
  - Other (using SMTP gateway)
  - giffgaff
  - clickatell

**Language support**
- PINsafe’s XML interface for language support enables the translation and import of languages if required.
  - Simplified Chinese
  - English

**GSM/GPRS Modems**
- Dual-channel SMS functionality can be provided by physical SMS capable devices.
  - MultiTech
  - MTBA-G-F1
  - FastTrack
  - Any GSM compatible phone

**Available API Samples**
- New samples are continuously being developed, so please check our website.
  - Active Server Pages (ASP)
  - ASP.Net
  - VB.Net
  - Visual Basic 6
  - PostiveWeb
  - PHP

**Directories, databases and user import**
- Supported user import utilities.
  - CSV import utility
  - Active Directory import
  - LDAP
  - Active Directory
  - XML

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