

# Elektron®

Award winning RADIUS server for Windows and Mac OS X

## Enables the strongest security available for Wi-Fi networks

Elektron® is a powerful software solution for enabling the advanced security features of your Wi-Fi network by providing RADIUS services to your WPA and 802.11i capable wireless access points.

Elektron® includes the tools system administrators need to secure their Wi-Fi networks. Active Directory and Open Directory support extends your existing authentication infrastructure to your WLAN, policy management allows you to configure when and from where your users may connect, and Elektron's FIPS 140-2 level 1 validated crypto module ensures that your data is safe.

In addition to the Wi-Fi protocols PEAP, LEAP, EAP-TLS, EAP-FAST and EAP-TTLS, Elektron® includes support for basic RADIUS protocols such as PAP and CHAP. With these protocols, Elektron® may be used as an authenticator for devices such as VPN concentrators and firewalls, allowing you to centralize your authentication services.

If your network includes a legacy RADIUS server that lacks support for Wi-Fi protocols like PEAP, EAP-FAST, and EAP-TTLS, Elektron® can provide a front end to your existing RADIUS server. Wi-Fi access points connect to Elektron®, which unmarshals the Wi-Fi request and forwards the inner username and password to the legacy RADIUS server, relaying the server's response to the access point via the PEAP, EAP-FAST, or EAP-TTLS tunnel. This allows you to retain your existing RADIUS server investment while extending it to include support for the latest Wi-Fi protocols.

Elektron® is designed to be installed and configured with a minimum of system administrator involvement. All server management is handled with an intuitive configuration application. No hand-editing of text files is ever needed.

Elektron® is licensed on a per-server basis, not on a per-user basis. As your network grows, there is no need to purchase additional user licenses. This helps make your IT budget predictable, even if your network user base isn't.



<http://www.periodiklabs.com>

Elektron® is available for Windows and Mac OS X servers. Using our online store you can purchase, download, and begin using Elektron® to secure your network immediately. If you prefer, you can also download a free, full-featured, no obligation 30 day version of Elektron® to try it out and see how Elektron® can secure your Wi-Fi network.

Elektron® is built on a solid crypto foundation. Its core functions are performed using a FIPS 140-2 validated crypto module, enabling Elektron's use in a number of governmental and financial industry environments.

Every Wi-Fi® deployment raises two concerns: ensuring that data sent over the network is free from eavesdropping, and that only authorized users can access the network. Elektron® works with your WPA-capable Wi-Fi® hardware to solve both problems. Each and every user attempting to login to your network is required to provide their unique username and password in order to be granted access, keeping unauthorized users off your Wi-Fi® network. What's more, Elektron® generates a separate encryption key for each user accessing the network, keeping your network traffic private.

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### Supported Standards

RADIUS (RFC 2865)  
RADIUS Accounting (RFC 2866)  
PEAP version 0 (internet draft)  
PEAP version 1 (internet draft)  
TTLS (internet draft)  
EAP-FAST (internet draft)  
LEAP  
IEEE 802.1X  
TLS (RFC 2246)  
ITU X.509v3  
SNMP  
FIPS 140-2 level 1  
LDAP  
ODBC

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### Compatible Clients

Window XP (SP1 or later)  
Windows Vista  
Mac OS X 10.3 (or later)  
Open1x XSupplicant  
Any PEAP or TTLS compatible client with a WPA Enterprise card

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### System Requirements

Mac OS X:  
Mac OS X 10.3.9 or later or Mac OS X Server 10.3.9 or later, 128 MB RAM, 20 MB free disk space  
Microsoft Windows:  
Windows 2000, XP Professional, or Windows Server 2003, 128 MB RAM, 20 MB free disk space

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### Compatible Access Points

Any WPA Enterprise capable access point, such as Apple Airport Extreme or Airport Express, Linksys WRT54G, D-Link Airplus ExtremeG, HP ProCurve, Cisco Aironet, HP ProCurve, or Buffalo Airstation

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