WHITESTEIN
Technologies

Data Sheet

Living Systems® EAP Toolkit

- ❐ Enable your connection manager with enterprise-class 802.1X authentication
- ❐ Control network access across all access methods
- ❐ Ensure secure network authentication and connectivity
- ❐ Safeguard privacy and integrity of user credentials
- ❐ Protect network data through robust encryption

Living Systems EAP Toolkit **provides developers of connection management clients with a robust, standards-compliant toolkit of 802.1X authentication plugins. Engineered for use in Internet service provider (ISP) and enterprise networks,** *Living Systems EAP Toolkit* **seamlessly supports the most advanced protocols required for secure accessibility.**

Trouble-free, Secure Authentication

Mobile users want hassle-free access to secure corporate and Internet service provider networks. Network operators want to rely on robust authentication to control network access and to ensure secured communication between their access points and client connection managers.

Privacy and integrity

Living Systems EAP Toolkit is an 802.1X-compliant authentication client (supplicant) that covers a wide range of Extensible Authentication Protocol (EAP) styles and provides management capabilities for WPA and WPA2.

It ensures the privacy and integrity of user's credentials and network data as they traverse through various networks.
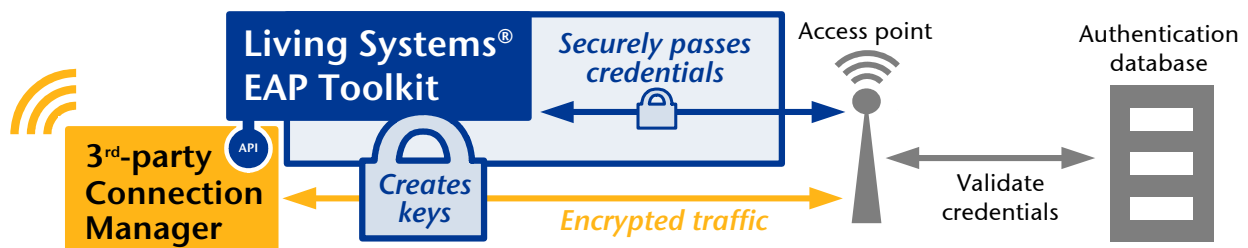
The Living Systems EAP Toolkit enhances any connection manager with robust 802.X authentication and EAP extensions capabilities

802.1X for any connection manager

Living Systems EAP Toolkit is a quick to deploy toolkit to enable third-party connection managers with state-of-the-art 802.1X authentication and EAP extensions capabilities.

Its cross-platform programming interface facilitates straight-forward integration with any existing architecture and complementary technologies.

Product Features

Robust credential and password security

In wireless networks, *Living Systems EAP Toolkit* provides essential security by encapsulating user credentials in a secure wrapper to prevent common attacks.

Support for the leading EAP types

Living Systems EAP Toolkit unlocks all the benefits of EAP, such as secure credential exchange using Transport Layer Security (TLS) for cryptography and data privacy. It supports the following EAP types out-of-the-box:

- ❒ EAP-TLS
- ❒ EAP-PEAP
- ❒ EAP-SIM
- ❒ EAP-LEAP (Windows XP only)
- ❒ EAP-FAST
- ❒ EAP-AKA

Support for other EAP types can be made available upon demand.

Advanced encryption through standard protocols

Data privacy in wireless sessions needs to be safeguarded against unauthorized interceptions. *Living Systems EAP Toolkit* prevents eavesdropping through the use of session keys, using the widely used Wi-Fi Protected Access (WPA) and WPA2 encryption standards with TKIP and AES.

Wireless Internet service roaming with WISPr

To provide mobile subscribers with transparent roaming between multiple networks and operators, *Living Systems EAP Toolkit* supports the WISPr protocol. Smart connection managers can use *Living Systems EAP Toolkit*'s WISPr capabilities to seamlessly login to hotspots without the need for the user to interact with login forms.

One toolkit for wired and wireless networks

Living Systems EAP Toolkit works across all endpoint devices for rapid deployment of secure Wi-Fi and wired 802.1X access to all users. The toolkit can communicate with any 802.1X-compatible RADIUS server and accommodates multiple network adapters in parallel.

Simplified maintenance and support

Living Systems EAP Toolkit eases fault-finding and resolution through comprehensive debug logs with administrator-controllable logging levels. This reduces problem diagnosis time and brings down bug fixing and support costs.

Broad support for Identity Stores

Living Systems EAP Toolkit supports the following RADIUS servers:

- ❒ Microsoft NPS/IAS
- ❒ Cisco ACS
- ❒ Juniper
- ❒ FreeRADIUS
- ❒ RADIATOR

About *Whitestein Technologies*

Whitestein Technologies is a pioneer of self-adaptive enterprise software.

We create software that responds to changing conditions so it can optimize processes and infrastructures in real-time. To stay ahead, we are continuously advancing our innovations in the field of autonomous software agent technology.

Whitestein Technologies is headquartered in Zug (Switzerland) with several global offices.

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