

ETRONIKA RADIUS Adapter (ERA)

Secure remote access to internal network resources

Integrated solution **ETRONIKA RADIUS Adapter (TRA)** is easy way to guarantee secure remote access to internal network resources by using mobile signature for user authentication.

Problem

Static passwords may be the weakest link in your network security exposing your sensitive data and applications to online fraudsters. The growing need for a much stronger virtual proof of identity is evident across all industries wherever confidential data and resources are involved.

When number of remote users increases and the use of VPN connection accelerates, static passwords must be replaced by much more secure user identification means.

About ERA

ETRONIKA RADIUS Adapter (ERA) is designed keeping in mind that users need comfortable and simple self-identification means, and IT administrators anticipate reliable, secure and easy to maintain application.

The solution could be used for:

- Remote access via VPN connection to company's intranet or extranet
- Access to network devices that use RADIUS protocol for authentication

Technical requirements

- Windows 2003/2008 Server
- IAS/NSP
- .NET Framework v.3.5
- IIS v.6 and higher
- 32/64 bit

Mobile signature vs static passwords

- Mobile signature is a component of very secure two-channel authentication solution that requires two elements to establish user's identity: user's credentials and mobile phone with mobile signature.
- Based on proven wPKI (Wireless Public Key Infrastructure) technology, mobile signature protects user login and ensures access for authenticated users only.
- The use of mobile signature is an alternative to one-time password generators. It is more comfortable self-identification mean.

Why ERA is better?

Quick and easy implementation procedure

ETRONIKA RADIUS Adapter will interface with any RADIUS client and web application without additional programming. This solution resides on your server and involves minimal setup and management.

Optimal maintenance costs

No additional devices, password generators or media for mobile signature are required. ERA is compatible with many firewalls, access servers and RADIUS based VPN.

Applicable both for small and enterprise businesses

Applicable both for small and enterprise businesses that aim to guarantee high-level networking security. Flexibility of ETRONIKA RADIUS Adapter allows adding as much users and applications as required.

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How ERA works?

Server side

There are three components of ETRONIKA RADIUS Adapter at the server side:

Administration module

Administration module is Web application with Administration console that administers and manages backend processes. It administers user authentication policies. Its main blocks are:

- Management of the RADIUS clients (firewalls, NAS servers, etc.)
- Management of the users who can authenticate themselves via RADIUS protocol
- Management of the system security provisions
- System status information page
- Configuration of mobile signature provider

Authentication module

Authentication module is extension of the RADIUS server that recognizes RADIUS users, searching for them in Active Directory or ERA Database. If user's identification through mobile signature is successful, the authentication module calls Web Service that authenticates user via ERA service.

Database

Database is an encrypted database where operational data are stored.

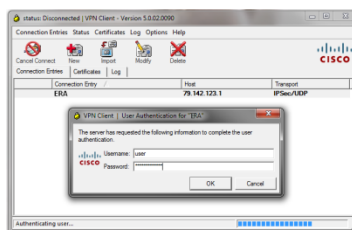
User side

To login with a secure access the remote user needs:

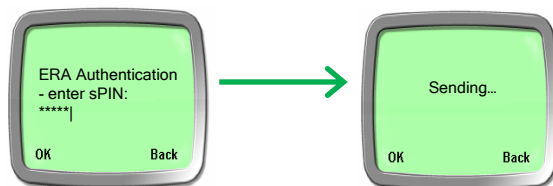
- Individually owned mobile signature and mobile phone
- Assigned VNP connection client with added ERA connection entry

Authentication steps:

1. User opens VPN connection and clicks on ERA connection entry
2. User enters his/her username and password



3. User receives message to his/her mobile phone asking to enter the sPIN of mobile signature



4. User enters the sPIN. The system identifies user, authorizes the VPN connection, and grants access to remote system or application.

Contacts

In order to receive technical recommendations and detailed information how to acquire the ETRONIKA RADIUS Adapter license, please contact:

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