

# AUTHUS 802.1x NETWORK SECURITY

**Authus is a network security solution using ultimate 802.1x authentication developed by HENZ ICT. For wired and wireless clients. Authus is a very flexible product and is easy to manage. Authus ensures an extensive authentication and assigns VLAN information to clients. This is based on the powerful Authus Profiling method. For IT environments with thousands of users Authus offers automatic VLAN load balancing. And finally, a powerful Reporting Engine is available for management- and support purposes.**

## AUTHUS MODULES

The Authus network security solution consists of the following modules:

- AAA Radius Server
- Management System
- Network Access Engine
- Reporting Engine

### AAA RADIUS SERVER

Authus uses the industry standard Radiator® AAA Radius server, which has proven to be fast, reliable and stable. Like Authus, Radiator® is platform independent. Within the Authus network security solution Radiator® performs the initial authentication.

### MANAGEMENT SYSTEM

The Management System is a web based application in which the basic data of Authus is maintained, like Profiles, Validation Rules and NAS Groups.

### NETWORK ACCESS ENGINE

Based on the Authus Validation Rules the Network Access Engine determines whether a client is permitted access to the network and with what type of Profile. Based on the Profile client gets access to a certain VLAN. If necessary, VLAN Load Balancing is automatically performed by Authus.

### REPORTING ENGINE

The Authus Reporting Engine uses a database that is suitable for very large amounts of data. In this database all data about Authentication, Authorization and Accounting is stored. Based on this data dashboards are available which show the status and the operation of the Authus system. For support purposes Authus offers trace functionality and dashboards on transaction level.

## AUTHUS ADVANTAGES

The advantages of the Authus 802.1x network security solution relative to traditional network access are many, of which the most important are:

- Better network security
- Lower cost of network management
- High degree of flexibility



## BETTER NETWORK SECURITY

By using the 802.1x method clients only get access to the network after a successful authentication and the software driven assignment of VLAN's makes sure that they get the right access to the network. By performing an automatic re-authentication periodically Authus checks if clients still meet the latest criteria.

## LOWER COST OF NETWORK MANAGEMENT

Because VLAN's are assigned during the authentication process VLAN's no longer have to be configured and managed on a NAS port level. While performing relocations or setting up a temporary project room lots of time will be saved. Because the method of authentication is saved in the central Authus Management System the authentication operates consistently with a low level of management load. The interactive dashboards and trace functionality makes end user support easy and cost effective.



## FLEXIBILITY

The Authus solution is ultimately flexible and can be used with all brands of network devices. Implementation of Authus is easy and can be done with minimal support of HENZ ICT. If you need more functionality Authus can easily be customized to meet your specific demands. And Authus can even run as a service in the cloud. Can it be more flexible?

## OPTIONAL MODULES

For specific purposes Authus offers the following options:

### APN/VPN AUTHENTICATIE

To authenticate APN- and VPN-clients. In that process Authus distributes IP-addresses based on IP-ranges and IP-pools, which are maintained in Authus.

### CERTIFICATE AUTHENTICATION (EAP-TLS)

To authenticate clients who connect to the network with a digital certificate.

### SIM CARD AUTHENTICATION (EAP-AKA)

To authenticate SIM-card clients (mobile devices) on the company's own network, for which the private keys are maintained in Authus.

### INFRASTRUCTURE MANAGEMENT (TACACS+)

To authenticate network administrators and allow them a certain level of network management.

### ALTER PACKET OPTION

In situations that organizations open up their networks to each other the Alter Packet option can be used to modify Radius attributes to any desired format.

## INTEGRATIONS

Authus has integrations with the following solutions:

- Device Onboarding / SecureW2
- PKI Management / SecureW2
- Guest User Management / Open Source

## AUTHUS LIVE

Among others, Authus is successfully live on a joint network of two large educational organizations in The Netherlands. Daily more than 30.000 concurrent users are logged in to that network environment. All being welcomed by Authus!

## PARTNERS

HENZ ICT is an authorized partner of SecureW2 and Open System Consultants.

## MEER INFORMATIE

For more information please contact HENZ ICT, +31 (0)20 895 0895 or mail to [info@henz.nl](mailto:info@henz.nl).

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