



Purpose: To enable IEEE 802.1x authentication using the NSE.

Note: Because current Access Points (AP) do not forward EAP messages, 802.1x on the Nomadix is only for wired connections. To support 802.1x on a wireless network behind the Nomadix Radius Proxy will need to be utilized.

Step 1: Under Configuration -> AAA -> Options Enable 802.1x Authentication and optionally set an 802.1x Reauth period.







Step 2: Create Radius settings

a) Add a Radius Service profile

Realm-Based Routing Settings

RADIUS Service Profiles (up to 10 may be created)

No RADIUS service profiles are defined.

Add Cli

Add

Add RADIUS Service Profile

Click here to add a new RADIUS service profile.

Unique Name: testradius Authentication ☑ Enable RADIUS Authentication Service Protocol: PAP IP / DNS: 10.10.10.10 Port: 1812 Primary Secret Key: secret Secondary IP / DNS: Port: 0 Secret Key: Accounting Port: 1813 Primary IP / DNS: 10.10.10.10 Secret Key: secret Secondary IP / DNS: Port: 0 Secret Key: **Retransmission Options** Retransmission Method: Failover • Round-Robin O Retransmission Frequency: (seconds) Retransmission Attempts: (per server)

How to enable 802.1x authentication





b) Set Radius Client Settings

For the Routing Mode select Fixed. For the Default RADIUS Service Profile, select the one you just created from the drop down list.

RADIUS Client Settings
Server Selection and Communication Default RADIUS Mode: Disabled ○ Realm-Based ○ Fixed ⊙ Default RADIUS Service Profile: testradius ■
Reboot required to put changes of the following two parameters into effect. Local Authentication Port 0 (0 means port number will be selected dynamically) Local Accounting Port 0 (0 means port number will be selected dynamically)
☐ Later login supersedes previous
Miscellaneous Options
Default User Idle Timeout: 0 (seconds)
User Login Retry Timeout: 3 (seconds)
☐ Enable Automatic Subscriber Reauthentication
□ Enable URL Redirection
☐ Send NAS identifier
NAS identifier: AG5000
☑ Send NAS IP
☐ Send NAS Port type
NAS Port Type: 0
□ Send Framed IP
Enable Termination-Action Radius Attribute
☐ Enable Session-Terminate-End-Of-Day When Authorized
☐ Enable Byte Count Reset On Account Start
☐ Enable Radius Subnet Attribute
☐ Enable Goodbye URL
☐ Enable Forgot your Password
Forgot your Password URL:
(Note: This URL will be added to the passthrough address list)
Enable RADIUS Based WAN VLAN Note: WAN 802.1Q headers for subscribers must be enabled in the Location page for this setting to be effective
☐ Enable user session time adjustment for NSE down time
☐ Enable charging for idle time
□ Enable RADIUS QoS Policies
Submit Reset





The User Experience.

When a 802.1x enabled user launches their browser, they will be prompted to login to the network.



When the user clicks OK, the user name and password is then sent to the Radius Server for authentication.