Contribution ID: **30**   Type: **not specified**

WiFi security appliance for authentication solution during conferences and seminars

Tuesday 26 May 2009 11:00 (30 minutes)

It's possible to build a security appliance to set up
a custom WiFi authentication solution based both on 802.1x and Captive Portal.
I developed a solution inside INFN which allows users during Workshops or seminars
to authenticate a WiFi session using 802.1x or Captive portal authentication.
The system is a portable device, it is a small Soekris device with 4 network ports.
It implements VLAN tagging and Access Points and can be attached directly to the soekris ports.
All the security applicance implementation is based on customized OpenBSD 4.5 distribution.
Configuration allows multiple VLANs and multiple SSIDs.
Since the authentication is based on radius server proxying, it can easily be integrated into EDUROAM

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Session Classification: Security and Networking I

Track Classification: Security and Networking