Wi-Fi Onboarding

Past

- Vendor - Ruckus Cloudpath
  - PEAP/EAP Authentication
    - Protected Extensible Authentication Protocol. A tunneled EAP method that uses a server-side digital certificate for server authentication and a username/password for client authentication.

Current

- Vendor - Secure W2
  - EAP TLS Authentication
    - EAP-Transport Layer Security
      Uses the handshake protocol in TLS. Client and server authenticate each other using digital certificates. Client generates a pre-master secret key, by encrypting a random number with the server’s public key. Both client and server use the pre-master to generate the same secret key.
    - PEAP/EAP – Still works
Why the Change

• Authentication is now tied to certificate not user credentials.
  No more disconnects when the UBIT password is changed.

• Ability to revoke a certificate which will remove the device’s ability to
  connect without changing UBIT credentials.
  i.e. stolen/lost devices

• Secure Information – Because a certificate is generating the
  credentials, there is no compromising information being sent over the
  air. Eliminate network risks like Man-in-the-Middle attacks that can steal
  user data.

• Connect Faster- In addition to skipping the password prompt, enjoy
  almost instantaneous wireless authentication.

• #1 Eduroam™ Configuration Client - SecureW2 is deployed across
  hundreds of campuses worldwide to enable devices to securely
  connect to Eduroam™ and their home campus network.
Implementation

• Onboarding pages are fully implemented.
• In order to onboard a device you must have ADMIN privileges.
• Primary focus is to enable all self provisioning with this new method – Phase 1.
• As we move forward PEAP/EAP will continue to function.
• Device Certificates are good for 5 years, must create a new certificate after 5 years.
• Below is the link to onboard devices that have already been configured for Eduroam or UBSecure.
• After this fall we will look to modernize the mass onboarding of devices by nodes – Phase 2.
Questions

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