

BASIC ROGUE AP DETECTOR

IOT AND SCADA HACKERS AUSTRALIA



SCADAHACKERS.COM

HOUSEKEEPING

GROUP INFO

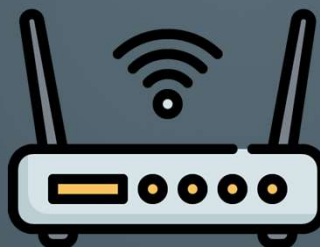
- OPEN COMMUNITY
- IOT, SCADA, ICS, AUTOMATION, PLC, SECURITY
- SHARING CHALLENGES, IDEAS, AND INTERESTS
- SUPPORTIVE AND COLLABORATIVE ENVIRONMENT
- VOLUNTEER-DRIVEN GROUP
- EXPERTS AND BEGINNERS

PRESENTATION

Have an idea?
Present it!

Wireless Architecture

Authenticator



Client / Supplicant



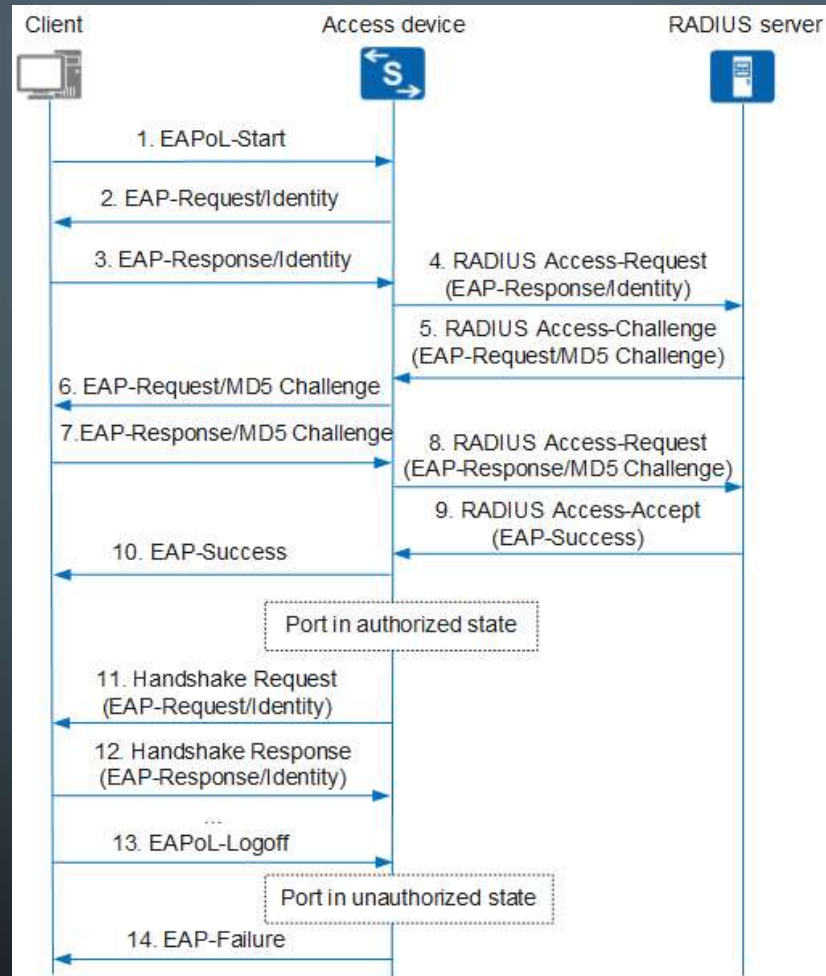
Client / Supplicant



Wireless Architecture - Enterprise



Wireless Architecture - EAPOL



img - Huawei - EDOC1100086527

Wireless Architecture – Common Auth

- Open Wireless (captive portal, etc.)
- Pre-Shared Key (PSK)
- PEAP / MSCHAPv2
- EAP-TLS

Wireless Architecture

FE-ED-41-AA-47-4E
(BSSID)
Basic Service Set Identifier



Wireless Name: ISHA
(SSID or ESSID)
Extended Service Set Identifier



BE-EF-66-17-67-8A
(BSSID)



BE-EF-87-E4-67-04
(BSSID)



BE-EF-66-17-67-8A
(BSSID)

Wireless Architecture

Wireless Name: ISHA
(SSID or ESSID)



FE-ED-41-AA-47-4D



FE-ED-41-AA-47-4E



FE-ED-41-AA-47-4F



BE-EF-66-17-67-8A
(BSSID)



BE-EF-87-E4-67-04
(BSSID)



BE-EF-66-17-67-8A
(BSSID)

Wireless Architecture – Common Attacks

- Open Wireless (captive portal, etc.)
 - MAC Address Cloning, Session Hijacking, Authentication Bypass
- Pre-Shared Key (PSK)
 - Capture Handshake and Brute Force, Half-Handshake Attacks (no AP required)
 - WPS / PIN
 - KRACK
- PEAP / MSCHAPv2
 - Rogue Access Point – security is heavily reliant on device management
 - EAP relaying
 - KRACK
- EAP-TLS
 - Rogue Access Point – security is heavily reliant on device management
 - KRACK

Wireless Architecture

Wireless Name: ISHA
(SSID or ESSID)



DE-AD-41-AA-47-5A

Wireless Name: ISHA
(SSID or ESSID)



FE-ED-41-AA-47-4E

FE-ED-41-AA-47-4F



BE-EF-66-17-67-8A
(BSSID)

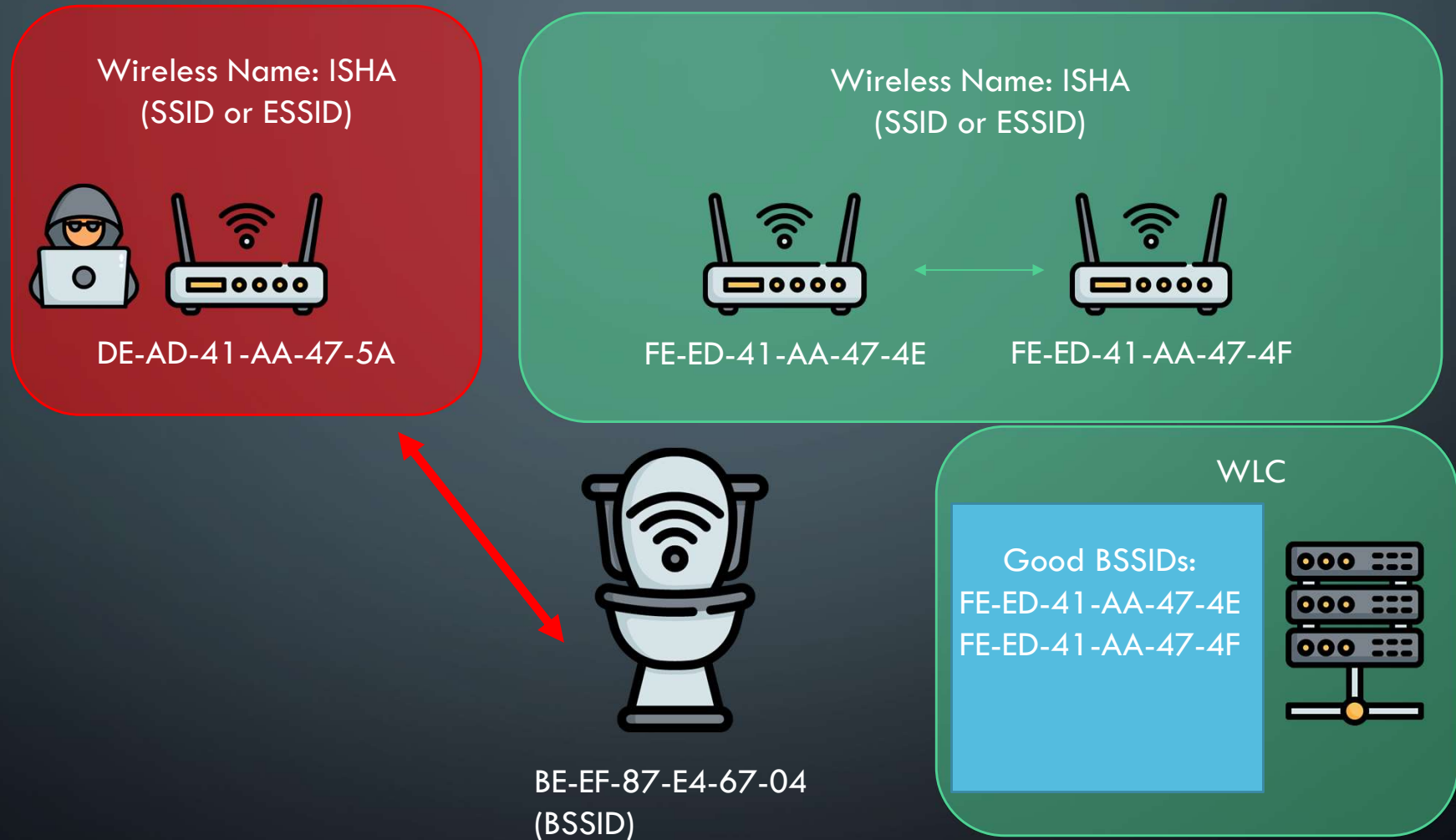


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(BSSID)

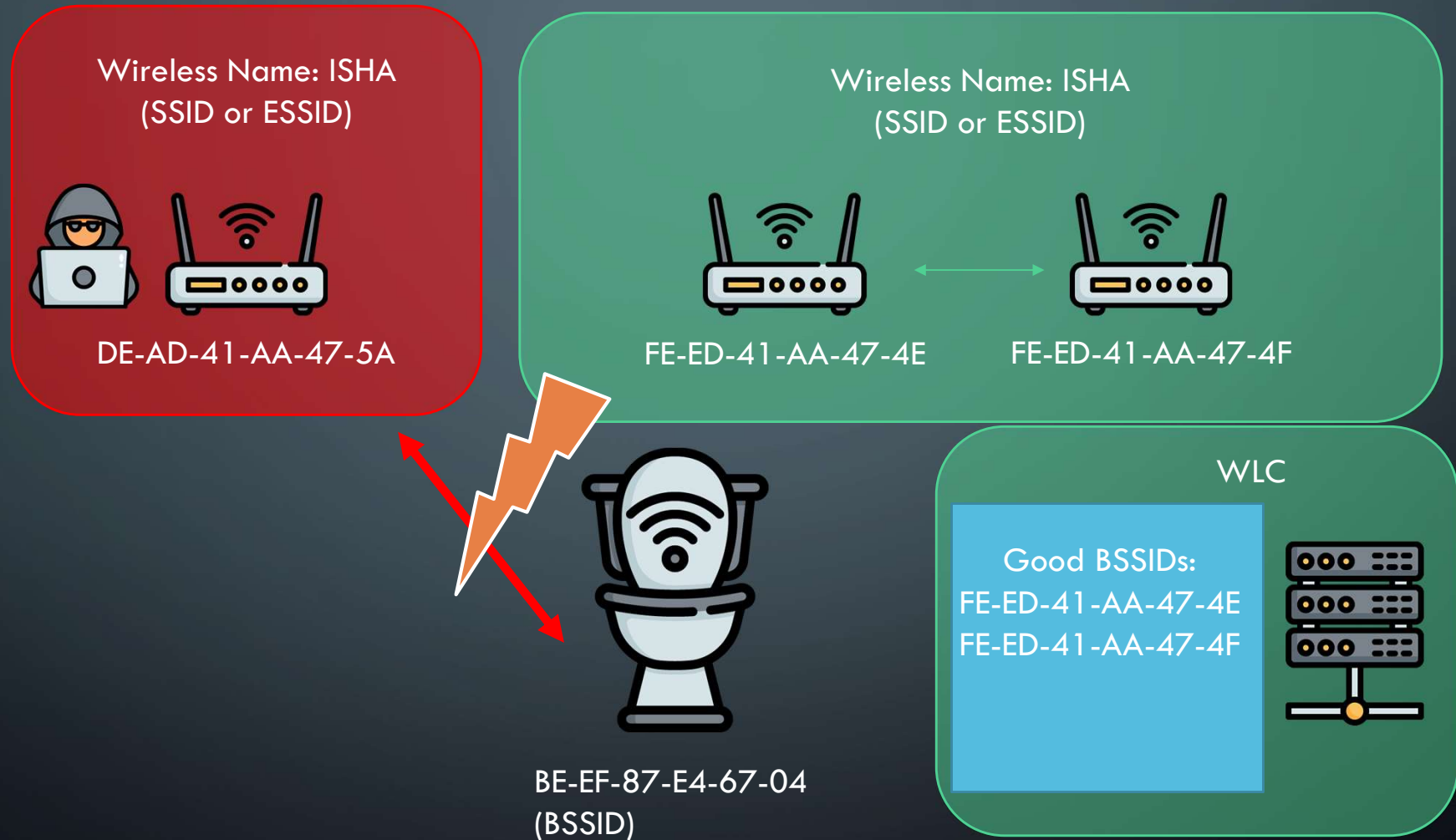


BE-EF-66-17-67-8A
(BSSID)

Wireless Architecture – Active Defence

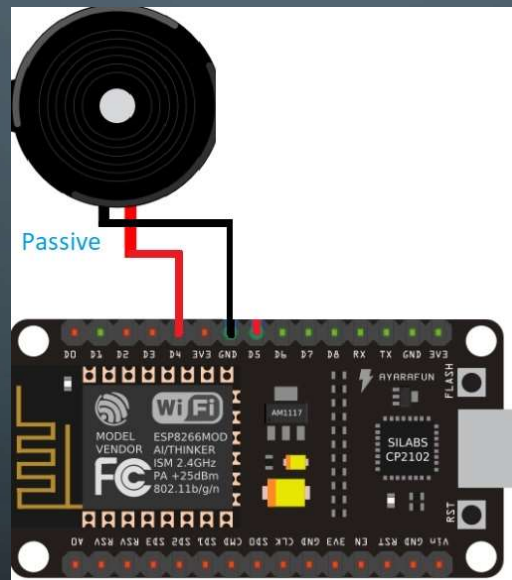


Wireless Architecture – Active Defence



PROJECT INFO

- [HTTPS://GITHUB.COM/SCADAHACKERS/PRESENTATIONS](https://github.com/SCADAHackers/presentations)



img - <https://www.geekering.com/>

IoT and SCADA Hackers Australia

The background is a dark blue gradient. In the corners, there are decorative white lines resembling circuit traces or a network diagram, with small circles at the end of the lines.

THANKS FOR COMING!

- Twitter [@IoTSCADA_AU](#)
- Web [scadahackers.com](#)