Onboarding and Portals

DRAFT-RICHARDSON-EMU-EAP-ONBOARDING-04

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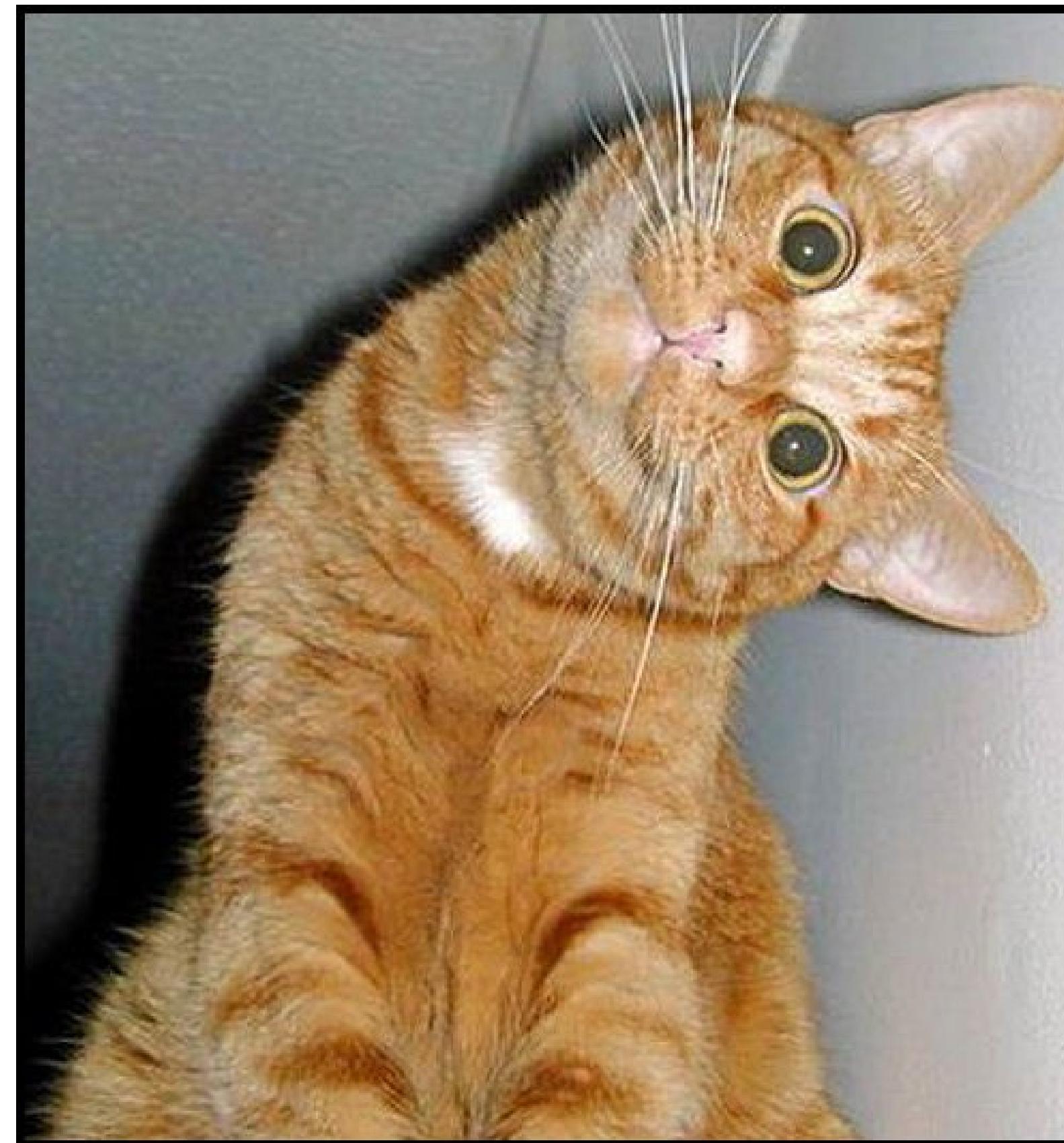
IETF123 - MADRID

DEVICE ONBOARDING

‣ Unconfigured device needs to be onboarded, but has no credentials

‣ Solution: use unauthenticated EAP-TLS, and join a captive portal network

‣ Problem: RFC 5216 allows for unauthenticated EAP-TLS, but offers no further help

‣ Solution: use explicit signalling via NAI of **onboarding@tls.eap.arpa**

‣ NAI is local only, and cannot be forwarded / proxied

‣ device can access a limited network for onboarding

‣ Once on a captive portal network, use RFC8995(BRSKI) to get credentials

‣ Or another system, SZTP, OPS UA Part 21, …

‣ this avoids trying to stuff BRSKI into EAP, and reuses existing captive portal infrastructure

UPDATES SINCE IETF114

‣ A chunk of what was in this document is now in draft-ietf-emu-eap-arpa

‣ Looks like maybe **onboarding@tls.eap.arpa** or **nobody@tls.eap.arpa** might be correct.

‣ Had planned running code in 2023, but it has yet to happen

DISCUSSION
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