

draft-tomas-openroaming

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RADEXT @ IETF 119

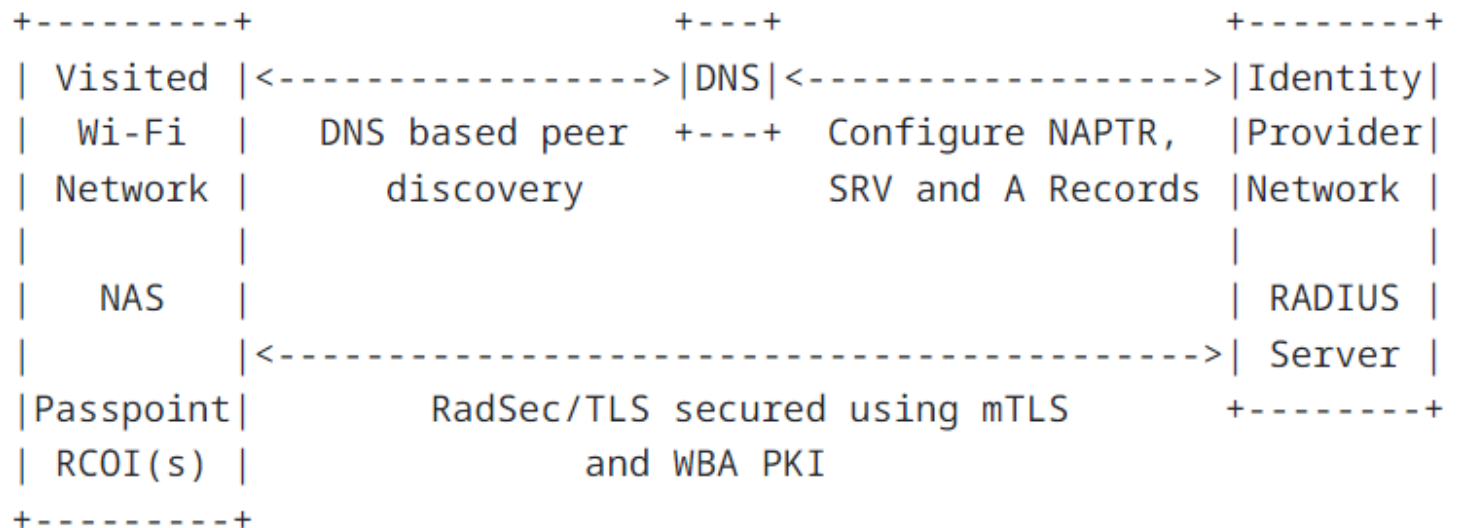
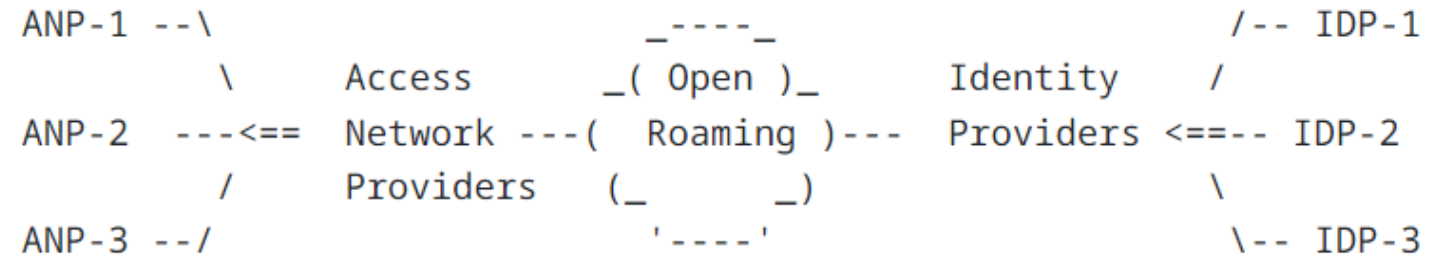
Objectives – Enable ubiquitous Wi-Fi connectivity by private networks using identity provider credentials

OpenRoaming mission statement is to create an open framework for all types of players to develop their Wi-Fi services & business

Cloud Federation

Cybersecurity Service

Network Automation



A Federation built on IETF Protocols

- 802.1X/EAP based authentication: RFC 3579/RFC 3580
- End user identifier based on chargeable user ID: RFC 4372
- ANP location: RFC 5580 out of and agreement
- Dynamic IDP discovery: RFC 7585
- Recommended DNSSec for IDP discovery: RFC 4035
- RadSec secured signaling: RFC 6614/6613

- as well as IEEE 802.11 ANQP & WFA Passpoint

WBA & IETF
exchange liaison
statements on a
continuous basis.
Helping driving
alignment and
collaboration;
examples are
MADINAS, CAPPOR,
RADEXT, DISPATCH

OpenRoaming background

Date		Details
June 2020	WBA Launches OpenRoaming	
March 2021	WBA RADIUS Vendor Specific Attributes for OpenRoaming	link
July 2022	OpenRoaming included as “existing solution” by MADINAS in draft-ietf-madinas-use-cases-02	link
June 2023	draft-tomas-openroaming-00 uploaded	link
July 2023	OpenRoaming presented to MADINAS	link
November 2023	OpenRoaming hackathon at IETF 118, examining unintentional privacy leakage	link
February 2024	ID-02 updated with latest requirements around avoiding privacy leakage	link

OpenRoaming and current RADEXT work

- draft-ietf-radext-radiusdtls-bis
 - Interested in being able to formally deprecate TLSv1.1
 - Trusted CA indication for federation co-existence
 - Verification using realms and discovered targets (with DNSSEC)
 - However, in both cases subjectAltname:dnsName is used to carry realm and/or target hostname
- draft-ietf-radext-reverse-coa
 - Currently CoA isn't supported due to well known FW traversal challenges
 - Would like to advocate use of reverse-coa and interested in a possible future hackathon
- draft-ietf-radext-deprecating-radius
 - Following recommendations on Minimizing Personal Identifiable Information
 - Note that Class attribute (#25) has also been observed as leaking privacy and is included in scope of OpenRoaming recommendations.

Next Steps

- ❖ Current scope of WG charter includes:
 - “Define best practices for RADIUS roaming, and roaming consortia based on experience with RADIUS/TLS.”
- ❖ Interested in feedback from RADEXT WG on the I-D
- ❖ WG recommendation on how to progress the I-D
 - Meets criteria for WG adoption or should follow the same ISE-route used by the likes of RFC7593?



Q&A

Thank you

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