captive portals

IETF 102, Montréal
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## Agenda

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7710bis

- [draft-ekwk-capport-rfc7710bis-00]
  - -00 still missing some citations
  - URI should point to the API endpoint
  - captive portals may do content negotiation
  - don't use IP address literals
  - urn:ietf:params:capport-unrestricted

- Additional places where capport URI might be made available?

- Captive portal deployments where
  - DHCP/on-link infrastructure under different control
  - primarily interact at the HTTP rewrite layer
  - should capport URI be available at the HTTP/HTML layer?
<back>
Working Group Milestones

Aug 2018

API for Captive Portal Interaction
Architecture diagram

User Equipment

- Connection Attempt to prohibited services
- ICMP Unreachable

Captive Portal Enforcement

- To/From external network

External Network

CAPPORt API URI

Query CAPPORt Status

Portal User Interface

Provisioning Service

CAPPORt API Server

CAPPORt web portal

Status

Allow/Deny Rules
Example (overly complicated) Hotspot

Venue / Hotspot
Network Owner

Venue Web Sites(s)

Hotel PMS

Access Point / NAS
Local Configurations:
- Walled garden settings
- Default session parameters
- One (or more) RADIUS AAA
- Local user accounts

Hotspot

Hotspot Service Provider

Captive Portal

RADIUS / AAA

Services
- Payment processing
- Roaming / marketing
- Vouchers, access products
- Configuration management

Roaming / Marketing Partners

Partner Website

RADIUS / AAA

Partner Website
Consider location of:
1. the enforcement point?
2. the API endpoint?
3. initial web endpoint?

Architecture scope decisions affect recommendations about:
1. UE identifying tokens
2. DHCPv4/PvD deployment guidelines

"on link"