Captive portal API hackathon

IETF 106 - capport

November 2019

Capport API: use-cases

Usage information

Allow users to view how much time or data is left, possibly notify them when it runs out.

Session management

Allow users to view details of their plan, and modify it (extend, upgrade/downgrade).

AP-published information

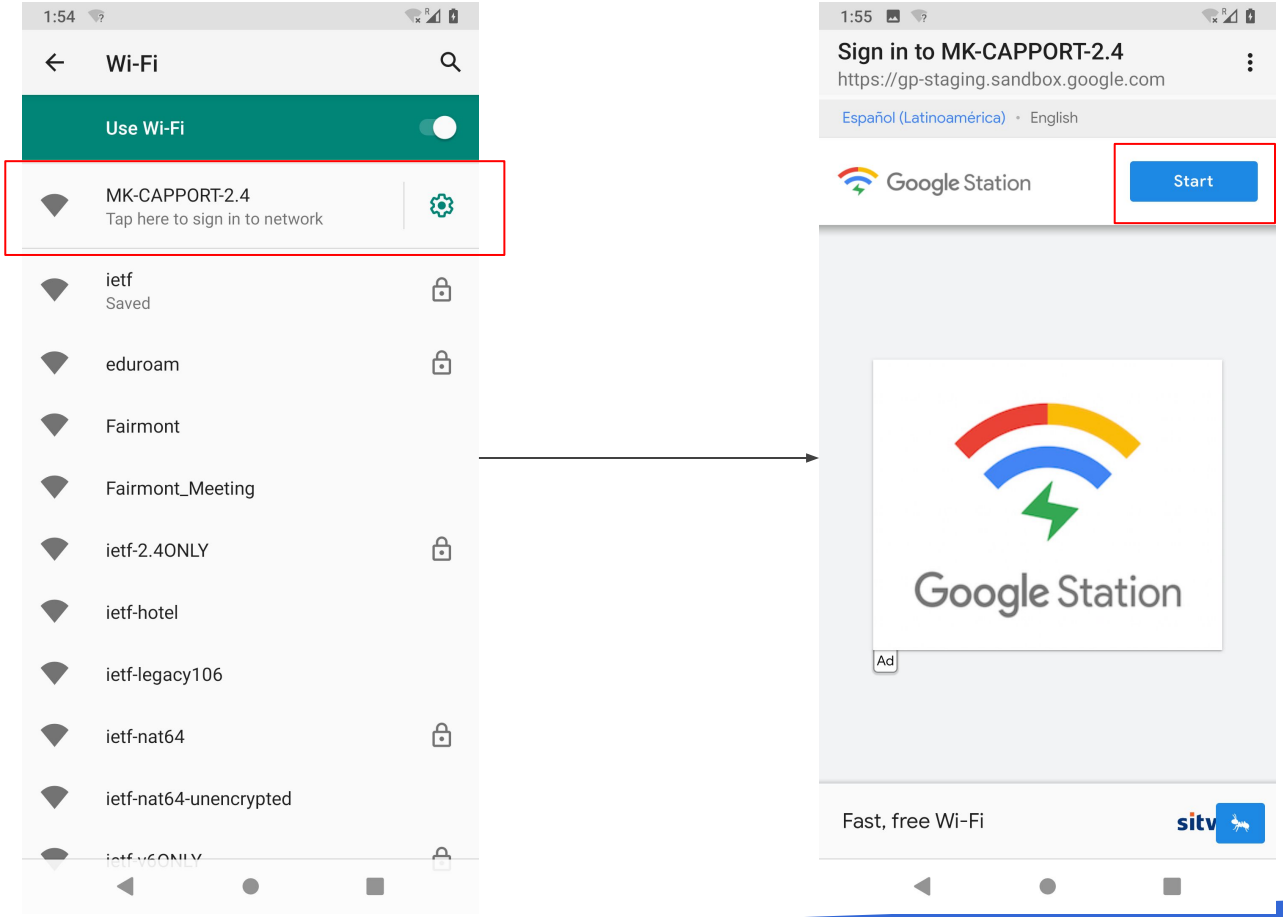
Allow users to view information published by the venue: in-flight entertainment, schedules & timetables, etc.

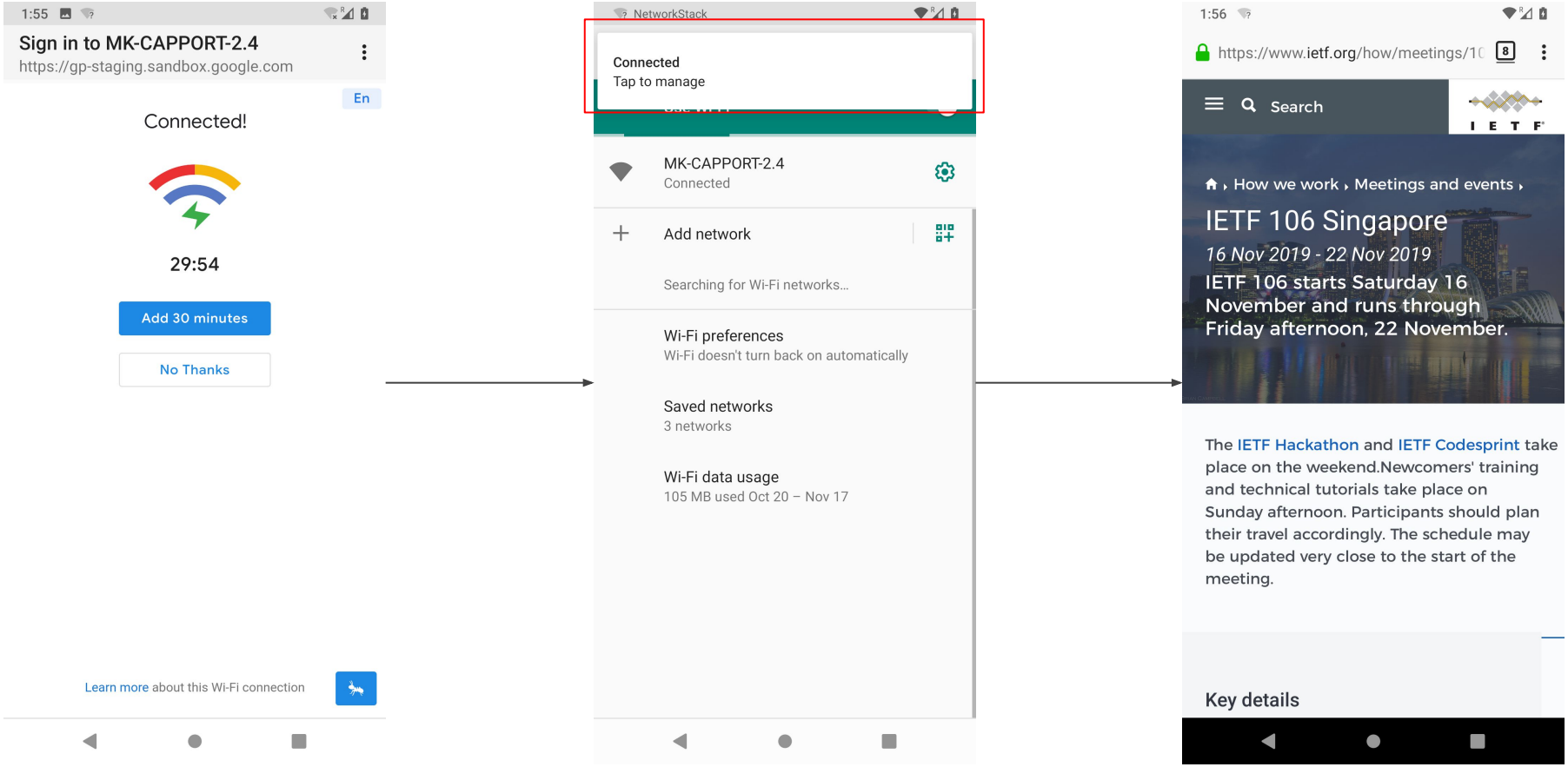
General flow of demo

- Discover the API endpoint (DHCP / IPv6 RA / Link-Relation): implemented DHCP for demo
- Probe endpoint to detect portal open/close, and to get session information
- Show info in notification

Google Station CAPPORT support

- Enabled one of the network devices to support DHCP option that provided the CAPPORT URI.
- Enabled the webserver to provide the JSON with the required information for the client:
  - Detect if the client is in captive or not.
  - Captive portal page
  - Time left
  - Venue URL


1:54
Wi-Fi
Use Wi-Fi
MK-CAPPORT-2.4
Tap here to sign in to network
ietf
Saved
eduroam
Fairmont
Fairmont_Meeting
ietf-2.4ONLY
ietf-hotel
ietf-legacy106
ietf-nat64
ietf-nat64-unencrypted
1:55
Sign in to MK-CAPPORT-2.4
https://gp-staging.sandbox.google.com
Español (Latinoamérica) • English
Google Station
Start
Google Station
Ad
Fast, free Wi-Fi
sitv


1:55
Sign in to MK-CAPPORT-2.4
https://gp-staging.sandbox.google.com
En
Connected!
29:54
Add 30 minutes
No Thanks
Learn more about this Wi-Fi connection
NetworkStack
Connected
Tap to manage
MK-CAPPORT-2.4
Connected
Add network
Searching for Wi-Fi networks...
Wi-Fi preferences
Wi-Fi doesn't turn back on automatically
Saved networks
3 networks
Wi-Fi data usage
105 MB used Oct 20 – Nov 17
1:56
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IETF 106 Singapore
16 Nov 2019 - 22 Nov 2019
IETF 106 starts Saturday 16 November and runs through Friday afternoon, 22 November.
The IETF Hackathon and IETF Codesprint take place on the weekend.Newcomers' training and technical tutorials take place on Sunday afternoon. Participants should plan their travel accordingly. The schedule may be updated very close to the start of the meeting.
Key details

THANK YOU