capport

IETF 106, Singapore

caveat participem

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- <u>BCP 9</u> (Internet Standards Process)
- <u>BCP 25</u> (Working Group processes)
- <u>BCP 25</u> (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- <u>BCP 78</u> (Copyright)
- <u>BCP 79</u> (Patents, Participation)
- https://www.ietf.org/privacy-p olicy/ (Privacy Policy)





. @FlyAirNZ your in-flight wifi interferes with @apple's captive portal detection domains, which is user-hostile and usually an attempt to get people's browser cookies - disrespecting their privacy. Please stop. // an airpoints elite member

Sign in to at_STARBUCKS_Wi2

https://service.wi2.ne.jp





failed to send a snmp request. commandName=[get_user_mac]

Wi2 Free Wi-Fi Service Terms and Conditions of Use

Article 1 (Applicability of Terms and Conditions of Use)

1. The following terms and conditions of use ("Terms of Use") govern the use of Wi2 Free Public Wireless LAN Service ("Service") that Wire and Wireless Co., Ltd.

2. Wi2 may revise these Terms of Use without User's consent.

("Wi2") provides to the user ("User").

Article 2 (Service Subscription)
Any applicant who wishes to use the Service ("Applicant", who will become

"User" upon completion of the subscription) must agree to these Terms of Use and the Contractual Terms and Conditions before following the Service subscription procedure prescribed by Wi2. Any underage applicant is assumed to be applying for the Service with parental consent.

Article 3 (Conditions for Use of Service)

The User shall prepare, at its own responsibility and expense, any data

Do not accept

Accept

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Sign in to YTC HOTELS

data:text/html,

agenda

welcome, administrivia, agenda

status

hackathon report

gStation implementation

AOB

5 chairs

10+5 chairs

20 Remi/Tommy

15 Heng/Selva

status

draft-ietf-capport-api -04 expected

draft-ietf-capport-architecture-O4 Ed. review

draft-ietf-capport-rfc7710bis -01 TBD

(draft-ietf-intarea-provisioning-domains-08) AD eval

7710bis-01 TODOs

Link Relation option: permanent network burden

Going to remove (objections?)

DNS name for discovery? (e.g. capport.arpa + URI RR)

Network experiment revealed vendor use of DHCPv4 option

Is use prevalent enough to warrant requesting new option?

hackathon report

Successful Google Station interop with Android and iOS

- expiry-date vs. seconds-remaining
- Clarifications about bytes-remaining
- Other options may make sense in future



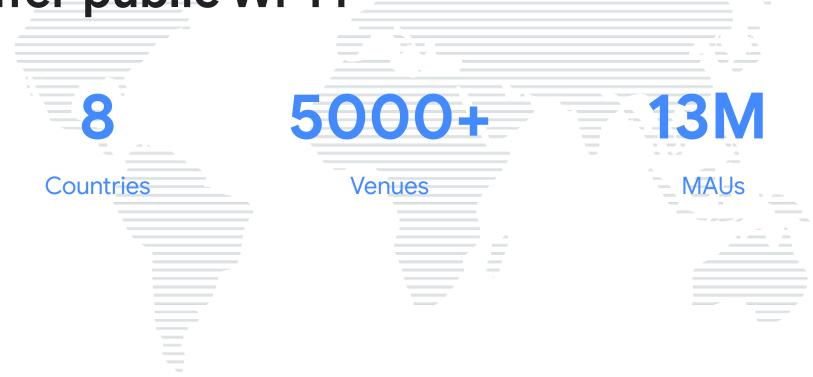
Google Station Overview

IETF, Nov 2019

50% of The World's Population is Offline



Google Station partners with ISPs to offer public Wi-Fi



Source: Google | Confidential & Proprietary

Meet the Google Station Captive Portal



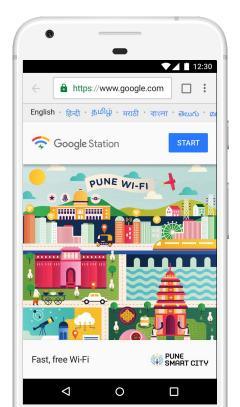


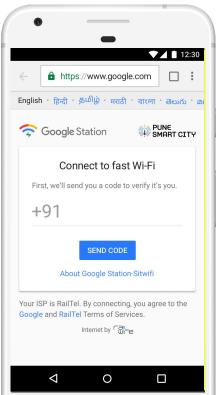


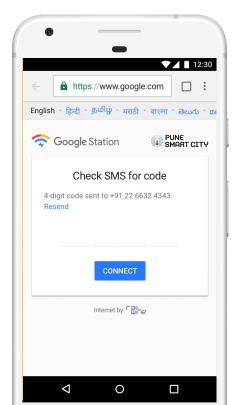


Meet the Google Station Captive Portal

For users to gain access to free, fast Wi-Fi, they have to accept Terms, and in certain markets (regulations vary) they must meet Know-Your-Customer (KYC) requirements by entering their phone number.

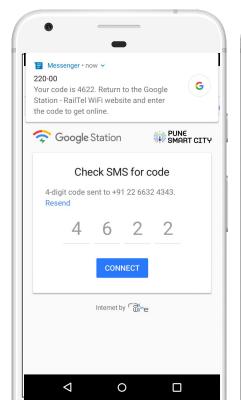


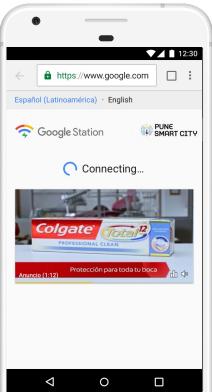




Meet the Google Station Captive Portal

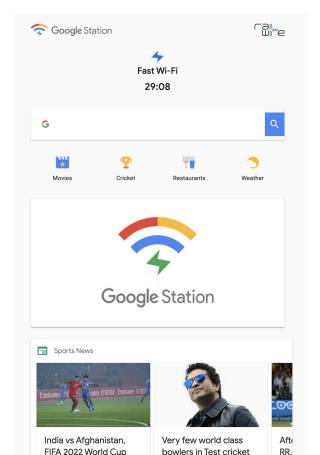
Then, users see ads before being connected to the full internet. These ads help sustain Public WiFi networks which are costly to build and run.







Success Feed is shown after connection



Currently only shown to iOS and browser, because in Android the webview auto-closes after connectivity is granted.

The page has:

- Shows time remaining
- Option for user to add 30 minutes
- Search bar
- Advertisement

100M Lifetime users

Since 2016, 60 people have connected to Google Station

every minute

Source: Google | Confidential & Proprietary

Mikrotik CAPPORT Proof of Concept

Mikrotik device is configured to provide the following:

- Captive Portal API Server (CP_API): customize mikrotik hotspot status page to return json
- Captive Portal Enforcement (CP_ENF)
- DHCP Server: custom option 160 is added and it configured to point at CP_API

Google station Captive Portal runs in borg and it hosts the Captive Portal (CP).

Sequence Diagram

CP_ENF, DHCP Server and CP_API are all hosted on mikrotik, while CP is hosted in google cloud (borg).

