

ACCESS & NETWORK

i2i Hotspot

Run public Wi-Fi with branded captive portals, plans and vouchers

Live sessions					ILLUSTRATIVE
SUBSCRIBER	ACCESS	GATEWAY	IP	STATUS	
FTTH-44120	PPPoE	bng-01	100.64.18.23	Authorised	
FTTH-51877	PPPoE	bng-02	100.64.22.140	Authorised	
ENT-2209	IPoE	bng-01	203.0.113.14	Authorised	
WIFI-GUEST-88	Hotspot	ap-lobby	10.20.4.77	Captive portal	
FTTH-39002	PPPoE	bng-02	–	Rejected: expired plan	
4 authorised · 1 rejected					IP logs retained · Trace

OVERVIEW

i2i Hotspot is a hotspot and captive portal platform for operators of public and venue Wi-Fi. You define hotspots and their access points, design a captive portal, choose how guests get in and watch sessions, usage and revenue from one console.

It does not replace your AAA. RADIUS authentication stays in your AAA server, such as i2i AAA. Hotspot supplies the portal, the subscriber, plan and voucher data, and the management screens, and it reads or receives session and accounting data from the AAA side. The current generation is a multi-tenant service with a web console and a separate guest portal runtime, so one operator can manage many venues and each portal keeps its own versions.

THE CHALLENGE

Public Wi-Fi is easy to switch on and hard to run. Each venue needs a branded sign-in, a way to limit or sell access, a record of who connected and an early warning when an access point fails. Operators with many venues also need central control, versioned changes and a clear boundary between the portal, the access network and the AAA that makes the decision.

AT A GLANCE

- ✓ Branded captive portals with version history
- ✓ Free, timed, data-limited and voucher access
- ✓ Advertising slots with targeting and reports
- ✓ Access point status and alert rules per venue

ILLUSTRATIVE SCREEN

Capabilities

Hotspot and access point inventory

Hotspots carry business hours and location. Access points have a key that can be rotated and send a status heartbeat, and are marked offline after a set silence. Bulk import from CSV, groups and config profiles simplify large estates.

Captive portal designer

Portals are built in a drag-and-drop designer from blocks such as login form, sign-up, plan cards, ad slot and voucher. Each portal has drafts, published versions, history and rollback, and a preview by device, page and language.

- Walled garden export
- Splash page
- Gated login and registration switches

Guest access methods

Guests can connect by click-through, mobile one-time password by SMS or email, Google sign-in, voucher or registered account. A hotel room login option reads in-house guests from a supported property management system.

Plans and vouchers

Plans can be free, time-limited, data-limited or speed-limited, with recurring daily, weekly or monthly allowances. A plan carries the reply attributes the AAA returns. Voucher batches can be created, redeemed and revoked.

Orders and revenue

Orders produce numbered invoices and daily revenue roll-ups feed a revenue report. Card payment adapters are not yet connected in the current generation.

Advertising

Advertisers, insertion orders, campaigns and creatives support image, video and HTML5. Campaigns have priority, impression caps and a per-device daily frequency cap, with targeting by hotspot, SSID, device and time window.

Sessions, alerts and audit

Live and historical sessions, usage reports and dashboards support daily operation. Alert rules cover offline access points, silent ingest and revenue drops, and notify by signed webhook or email. An audit log of administrator changes redacts sensitive fields.

Tenancy and deployment

The service is multi-tenant with role-based permissions and per-tenant feature flags. It installs under systemd from a tar package with a health check and automatic rollback, on PostgreSQL.

Technical summary

ROLE	Portal, subscriber, plan and voucher management; RADIUS decisions remain in your AAA server
AAA BOUNDARY	AAA reads a restricted database role or posts accounting events to an ingest endpoint; realm suffixes by access type are optional
GUEST SIGN-IN	Click-through, mobile OTP by SMS or email, Google, voucher, registered account, hotel room login
ACCESS NETWORKS	MikroTik hotspot flow in use; Huawei NCE-Campus and Juniper Mist adapters tested against mocks only
CONSOLE AND PORTAL	Web operator console and separate guest portal runtime, both Next.js
DATA STORE	PostgreSQL; multi-tenant with role-based permissions
DEPLOYMENT	Tar package with install and upgrade scripts, systemd, health gate and automatic rollback; no container image for the current generation
ALERTS	Access point offline, silent ingest and revenue drop rules; signed webhook and email channels

Standards and interfaces

Interfaces

- RADIUS through your AAA server
- OAuth 2.0 for Google sign-in
- Realm suffix as a network access identifier (RFC 7542)

Related modules

Modules operators often run alongside i2i Hotspot. Each is a separate module; the integrations that exist are listed in the technical summary above.



Where it is used

Free guest Wi-Fi with a branded page

A shopping centre gives visitors free access for a limited time. The portal shows the centre's branding and asks for a mobile number. A one-time password confirms it, the plan caps the session and the operator reads usage reports per venue.

Prepaid vouchers

A community operator without a card system prints voucher batches and sells them through local shops. A guest enters the code on the portal and gets the plan attached to the batch. The operator can revoke a batch that was lost or misused.

Hotel Wi-Fi linked to bookings

A hotel uses the room login option. The platform polls the hotel property management system, mirrors in-house guests and gives each a subscriber that ends at checkout, so staff do not create or remove accounts by hand.

See i2i Hotspot on your network

Talk to our team about your operator type, your network and where to start. We will show you the module and answer the technical questions.

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