

## IDENTITY &amp; INTELLIGENCE

# i2i APIs

A controlled API gateway for partners, payment providers and device apps

## OVERVIEW

i2i APIs is the set of interfaces through which outside systems work with i2iCore. Its current core is a curated external gateway. Staff register each client, restrict it to approved source addresses, and choose which endpoints it may call. Every call through the gateway is checked, throttled and written to an audit log.

The gateway exposes subscriber and package operations for partner systems, and device operations for the ACS: reading and changing Wi-Fi settings on a subscriber's equipment. Separate adapters handle payment provider callbacks and bill-payment partners, so payments reach the customer's account without manual entry.

## THE CHALLENGE

Operators need to let outside systems in: reseller CRMs, payment providers, bill-payment aggregators and partner apps. Giving them direct access to internal services is risky, and one-off integrations built for each partner are costly to maintain and hard to audit. The operator needs one place to decide who may call, what they may do and how often.

## AT A GLANCE

- ✓ Partner systems create and recharge subscribers by API
- ✓ Each client limited by source IP and endpoint
- ✓ Every gateway call audited, including rejected ones
- ✓ Payment callbacks credited to the customer account

## Capabilities

### Curated subscriber and package endpoints

A set of endpoints lets partner systems create and edit subscribers, recharge and cancel a recharge, deactivate, manage grace periods, read online status and daily usage, reset a MAC address and list packages.

- Versioned path
- Response envelope with a response code, message and object

### Device endpoints

Endpoints for the ACS let an authorised service account read device information, read and change Wi-Fi settings, change a Wi-Fi password and check the status of an operation.

### Client registry and authentication

Each client has a code, an authentication mode and an address allow-list. A client secret is exchanged for a token, or the identity service verifies a user password. Secrets can be rotated and sessions revoked.

### Endpoint gate and throttling

An endpoint registry lets staff enable or disable each operation. Calls above the limit for a client and endpoint receive a retry-after response.

### Audit trail

Every call through the gateway is written to the audit log with its outcome, including success, failure and each kind of rejection. Retention is set by policy. The log can be searched and downloaded as CSV.

- Search window limited to keep queries fast

### Payment provider callbacks

Inbound callbacks from Razorpay and AblePay let those providers report payments to i2iCore, and AblePay also has a callback for eKYC results on a lead.

### Partner bill-pay and ERP interfaces

Bill-payment partners call in to fetch bills and post payments. A separate ERP partner interface covers customers, invoices, payments, plans and renewals, with pagination and protection against duplicate posting.

### Other adapters

Separate adapters serve the customer mobile app, the captive portal and a legacy partner interface. Ask i2iCore which adapters your deployment uses.

## Technical summary

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| STYLE                 | REST over HTTP with JSON; bearer token authentication                                  |
| CLIENT AUTHENTICATION | Client code and secret, or identity-service user                                       |
| ACCESS CONTROLS       | Source IP allow-list, per-endpoint enable, per-client throttling                       |
| AUDIT                 | Every gateway call logged with outcome; CSV download; retention set by policy          |
| DOCUMENTATION         | Swagger UI per service; written specification for the subscriber and package interface |
| PAYMENT CALLBACKS     | Razorpay and AblePay                                                                   |
| BILL-PAY PARTNERS     | NPay, DemandPay and BharatPay                                                          |
| ADMINISTRATION        | External API section of the identity console: clients, endpoints and call log          |

## Related modules

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



## Where it is used

### A reseller's CRM creates and recharges subscribers

A franchise runs its own CRM. Staff register it as a client with its office IP range and enable the subscriber endpoints. The CRM signs in, creates a subscriber, recharges a package and deactivates an account, and every call appears in the audit log with its outcome.

### A payment provider confirms a payment

A customer pays online through a supported provider. The provider calls the callback endpoint and i2iCore records the payment against the customer's account, so support does not need to key it in by hand.

### A bill-payment aggregator fetches and posts bills

An aggregator that collects payments at retail points calls the partner bill-pay endpoints to fetch a subscriber's bill and later posts the payment. The operator sees the calls and their outcomes in the same call log.

## See i2i APIs 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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