



Platforms overview

iOS App

Availability: internal preview. The iOS app is not publicly distributed yet.

What it does

Connects to a Gateway over WebSocket (LAN or tailnet).

Exposes node capabilities: Canvas, Screen snapshot, Camera capture, Location, Talk mode, Voice wake.

Receives `node.invoke` commands and reports node status events.

Requirements

Gateway running on another device (macOS, Linux, or Windows via WSL2).

Network path:

Same LAN via Bonjour, **or**

Tailnet via unicast DNS-SD (example domain: `openclaw.internal.`), **or**

Manual host/port (fallback).

Quick start (pair + connect)

1. Start the Gateway:



```
openclaw gateway --port 18789  
>
```

2. In the iOS app, open Settings and pick a discovered gateway (or enable Manual Host and enter host/port).
3. Approve the pairing request on the gateway host:

```
openclaw nodes pending  
openclaw nodes approve <requestId>
```

4. Verify connection:

```
openclaw nodes status  
openclaw gateway call node.list --params "{}"
```

Discovery paths

Bonjour (LAN)

The Gateway advertises `_openclaw-gw._tcp` on `local.`. The iOS app lists these automatically.

Tailnet (cross-network)

If mDNS is blocked, use a unicast DNS-SD zone (choose a domain; example: `openclaw.internal.`) and Tailscale split DNS. See [here](#) for the CoreDNS example.

Manual host/port

In Settings, enable **Manual Host** and enter the gateway host + port (default 18789).

>

Canvas + A2UI

The iOS node renders a WKWebView canvas. Use `node.invoke` to drive it:

```
openclaw nodes invoke --node "iOS Node" --command canvas.navigate --pa
```

Notes:

The Gateway canvas host serves `/__openclaw__/canvas/` and `/__openclaw__/a2ui/` .

It is served from the Gateway HTTP server (same port as `gateway.port`, default 18789).

The iOS node auto-navigates to A2UI on connect when a canvas host URL is advertised.

Return to the built-in scaffold with `canvas.navigate` and `{"url": ""}` .

Canvas eval / snapshot

```
openclaw nodes invoke --node "iOS Node" --command canvas.eval --params
```

```
openclaw nodes invoke --node "iOS Node" --command canvas.snapshot --pa
```

Voice wake + talk mode

Voice wake and talk mode are available in Settings.



iOS may suspend background audio; treat voice features as best-effort when the app is not active.

>

Common errors

`NODE_BACKGROUND_UNAVAILABLE` : bring the iOS app to the foreground (canvas/camera/screen commands require it).

`A2UI_HOST_NOT_CONFIGURED` : the Gateway did not advertise a canvas host URL; check `canvasHost` in [Gateway configuration](#).

Pairing prompt never appears: run `openclaw nodes pending` and approve manually.

Reconnect fails after reinstall: the Keychain pairing token was cleared; re-pair the node.

Related docs

[Pairing](#)

[Discovery](#)

[Bonjour](#)

◀ [Android App](#)

[macOS Dev Setup](#) ▶

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