



[Platforms overview](#)

## Android App

### Support snapshot

Role: companion node app (Android does not host the Gateway).

Gateway required: yes (run it on macOS, Linux, or Windows via WSL2).

Install: [Getting Started](#) + [Pairing](#).

Gateway: [Runbook](#) + [Configuration](#).

Protocols: [Gateway protocol](#) (nodes + control plane).

### System control

System control (launchd/systemd) lives on the Gateway host. See [Gateway](#).

### Connection Runbook

Android node app ⇌ (mDNS/NSD + WebSocket) ⇌ [Gateway](#)

Android connects directly to the Gateway WebSocket (default ws://<host>:18789 ) and uses Gateway-owned pairing.

### Prerequisites



You can run the Gateway on the “master” machine.

Android device/emulator can reach the gateway WebSocket:

Same LAN with mDNS/NSD, or

Same Tailscale tailnet using Wide-Area Bonjour / unicast DNS-SD (see below), or

Manual gateway host/port (fallback)

You can run the CLI ( `openclaw` ) on the gateway machine (or via SSH).

## 1) Start the Gateway

```
openclaw gateway --port 18789 --verbose
```

Confirm in logs you see something like:

```
listening on ws://0.0.0.0:18789
```

For tailnet-only setups (recommended for Vienna ⇄ London), bind the gateway to the tailnet IP:

Set `gateway.bind: "tailnet"` in `~/.openclaw/openclaw.json` on the gateway host.

Restart the Gateway / macOS menubar app.

## 2) Verify discovery (optional)

From the gateway machine:

```
dns-sd -B _openclaw-gw._tcp local.
```

More debugging notes: .

## Tailnet (Vienna ⇄ London) discovery via unicast DNS-SD



Android NSD/mDNS discovery won't cross networks. If your Android node and the gateway are on different networks but connected via Tailscale, use Wide-Area Bonjour / unicast DNS-SD instead:

1. Set up a DNS-SD zone (example `openclaw.internal.`) on the gateway host and publish `_openclaw-gw._tcp` records.
2. Configure Tailscale split DNS for your chosen domain pointing at that DNS server.

Details and example CoreDNS config: [Bonjour](#).

## 3) Connect from Android

In the Android app:

The app keeps its gateway connection alive via a **foreground service** (persistent notification).

Open **Settings**.

Under **Discovered Gateways**, select your gateway and hit **Connect**.

If mDNS is blocked, use **Advanced → Manual Gateway** (host + port) and **Connect (Manual)**.

After the first successful pairing, Android auto-reconnects on launch:

Manual endpoint (if enabled), otherwise

The last discovered gateway (best-effort).

## 4) Approve pairing (CLI)

On the gateway machine:

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

Pairing details:

## 5) Verify the node is connected

Via nodes status:

```
openclaw nodes status
```

Via Gateway:

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

## 6) Chat + history

The Android node's Chat sheet uses the gateway's **primary session key** (`main`), so history and replies are shared with WebChat and other clients:

History: `chat.history`

Send: `chat.send`

Push updates (best-effort): `chat.subscribe → event:"chat"`

## 7) Canvas + camera

### Gateway Canvas Host (recommended for web content)

If you want the node to show real HTML/CSS/JS that the agent can edit on disk, point the node at the Gateway canvas host.

Note: nodes load canvas from the Gateway HTTP server (same port as gateway.port , default 18789 ).

1. Create ~/.openclaw/workspace/canvas/index.html on the gateway host.
2. Navigate the node to it (LAN):

```
openclaw nodes invoke --node "<Android Node>" --command canvas.navigate
```

Tailnet (optional): if both devices are on Tailscale, use a MagicDNS name or tailnet IP instead of .local , e.g. http://<gateway-magicdns>:18789/\_openclaw\_/canvas/ .

This server injects a live-reload client into HTML and reloads on file changes. The A2UI host lives at http://<gateway-host>:18789/\_openclaw\_/a2ui/ .

Canvas commands (foreground only):

canvas.eval , canvas.snapshot , canvas.navigate (use {"url":""} or {"url":"/"} to return to the default scaffold). canvas.snapshot returns { format, base64 } (default format="jpeg" ).

A2UI: canvas.a2ui.push , canvas.a2ui.reset ( canvas.a2ui.pushJSONL legacy alias)

Camera commands (foreground only; permission-gated):

camera.snap (jpg)

camera.clip (mp4)

See [parameters and CLI helpers](#).



Powered by **mintlify**

>

---