

AKAYSIS

SOLAR STREET LIGHTING · RF NETWORK · WEB CONSOLE

Smart Lighting Systems for Solar Lighting

AKAYSIS connects every solar street lamp to one web console. See each lamp live, change its settings from the office, and receive WhatsApp and e-mail alerts when something needs attention.

200

lamps per gateway

5 km

radio radius

24/7

remote monitoring

LAMP · SLS-M 40 W

Status	● Online
Battery	13.6 V
Solar panel	81 W



WHAT IS AKAYSIS?

Your solar lamps, connected and under control.

A solar street lamp normally works on its own. If it fails, you hear about it from the street. AKAYSIS gives every lamp a voice and puts the whole site on one screen.



Without AKAYSIS

Lamps are invisible after installation. A dark street, an empty battery or a broken panel is found by a complaint or by a site visit.



With AKAYSIS

Each lamp sends its battery, solar and lamp status over radio to a gateway on a pole. The gateway passes it to the AKAYSIS web console.



The result

You see every lamp, change settings from the office, and get alerts first. Problems are fixed before anyone notices the dark.



Fewer site visits

Diagnose from the desk



Faster repairs

Alerts on WhatsApp and e-mail



Longer battery life

Correct charge settings, remotely



Proof of operation

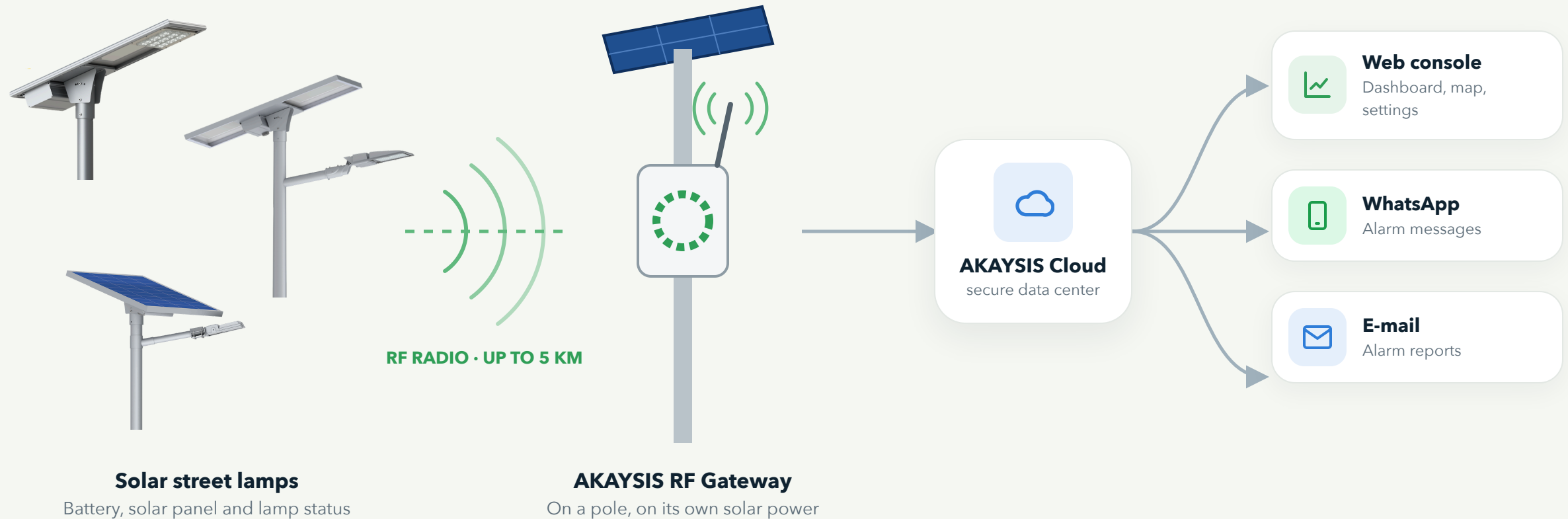
Energy and status history

FOR MUNICIPALITIES, CONTRACTORS AND SITE OWNERS

One system for street, park and road solar lighting.



From the lamp on the street to the screen on your desk.



COVERAGE

One gateway covers a whole district.

A single AKAYSIS RF Gateway talks to up to 200 solar lamps within a 5 km radius. No cables, no SIM card in every lamp, no per-lamp data plan.

200

lamps on one
gateway

5 km

radio radius

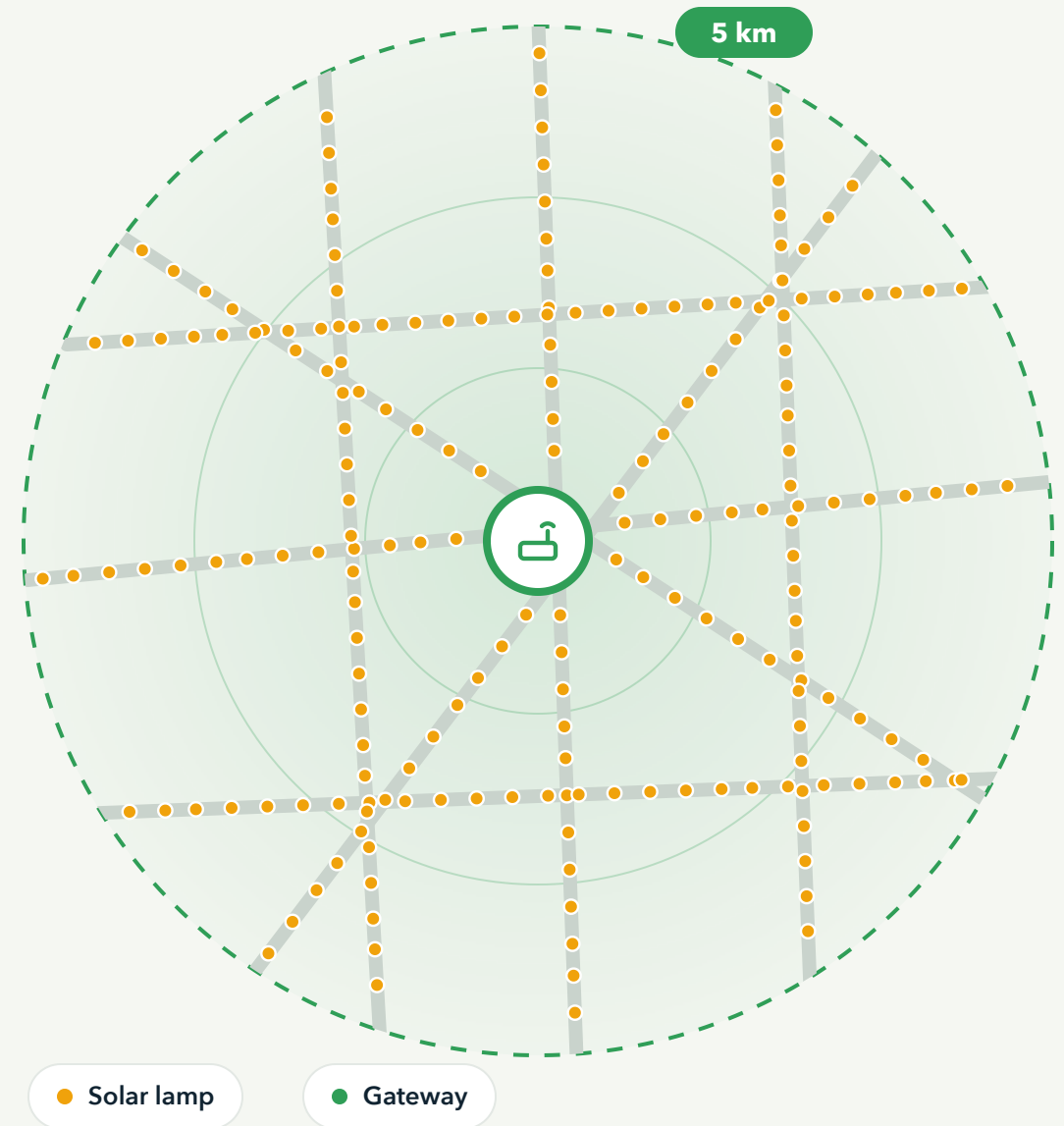
1

internet link for all

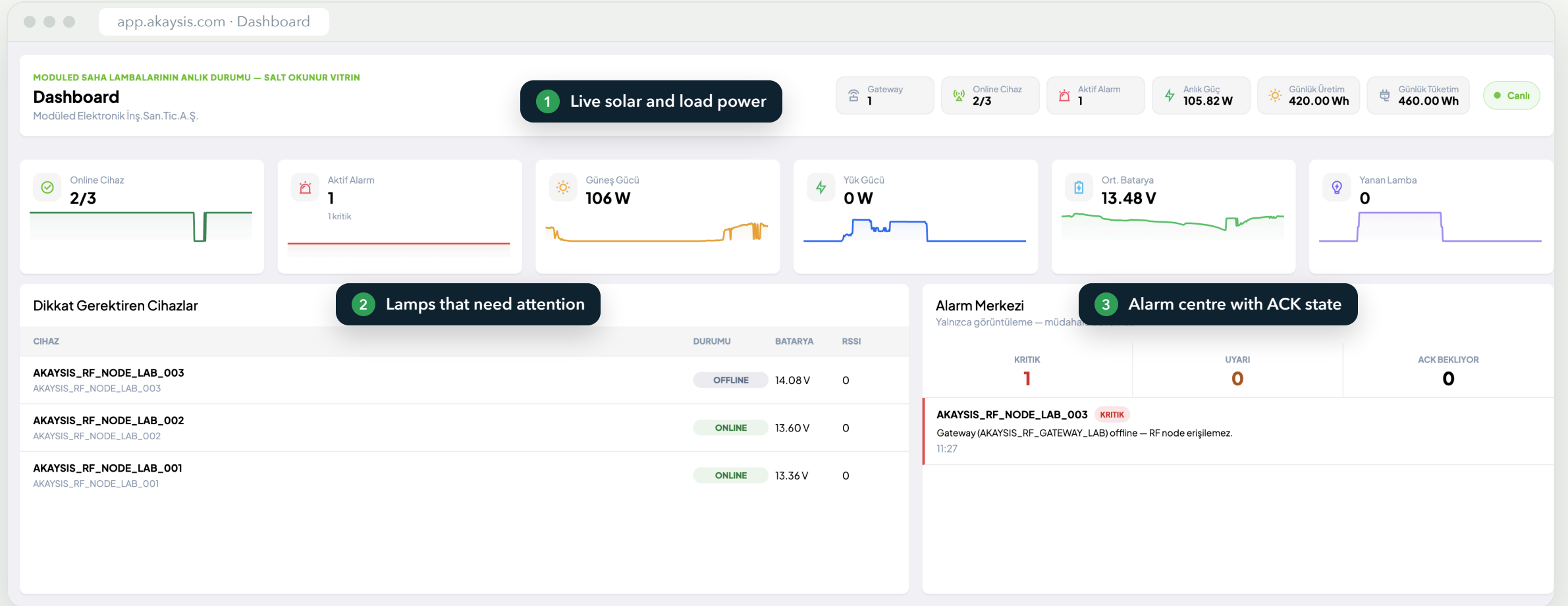


Bigger project? Add a gateway.

Each new area gets its own gateway. All of them appear in the same console, under the same account.



The whole site at a glance.



1 Energy, live

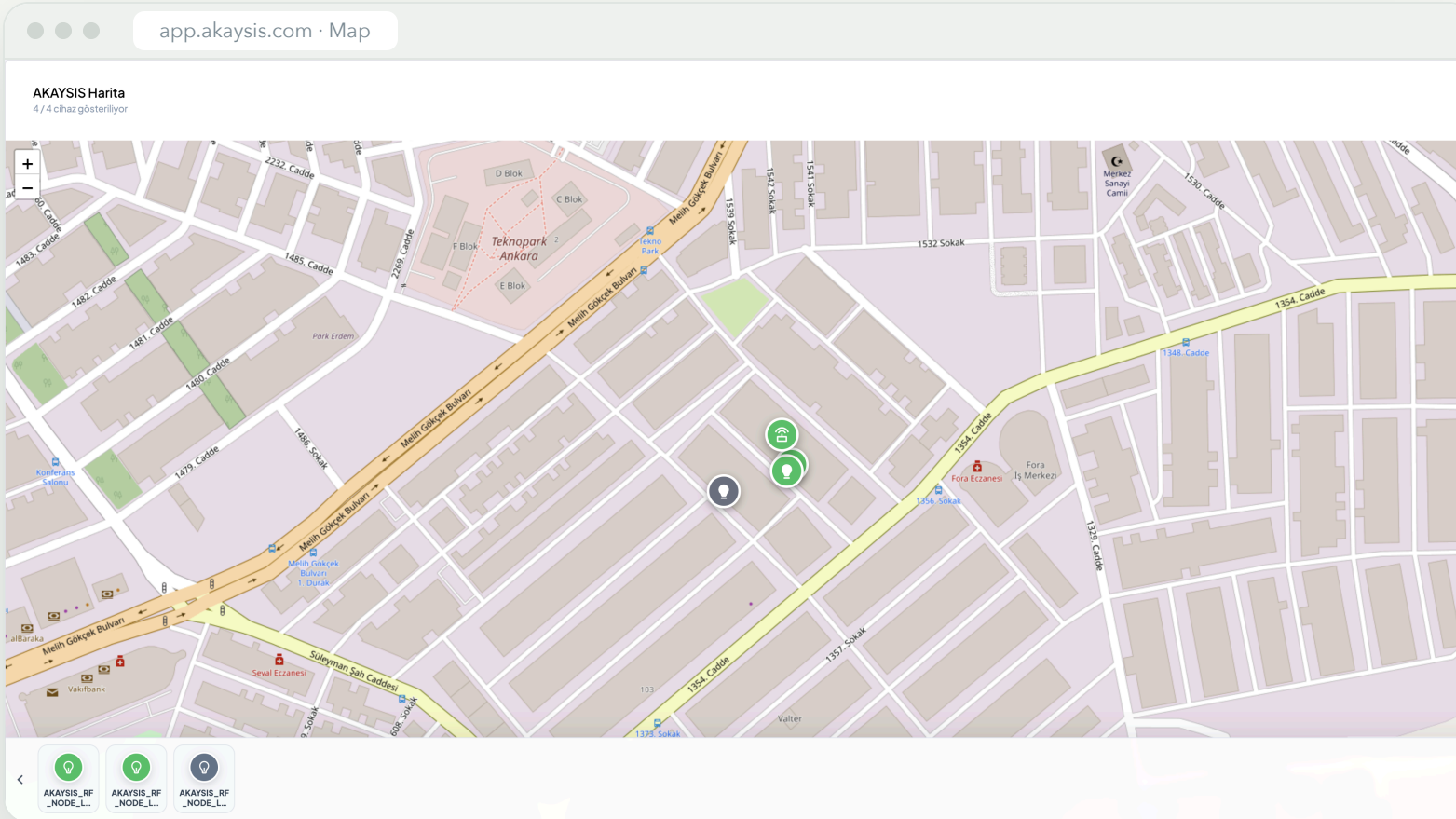
Online lamps, active alarms, solar power, load power, average battery and lamps that are on.

2 What needs a person

Offline or low-battery lamps rise to the top of the list.

3 Every alarm, tracked

Critical and warning counts, and which ones are still waiting for confirmation.



WEB CONSOLE · MAP

Every lamp on the street map.

Lamps and gateways are placed at their real locations. Colours tell the state without opening anything.

● Online, working

● Warning

● Alarm

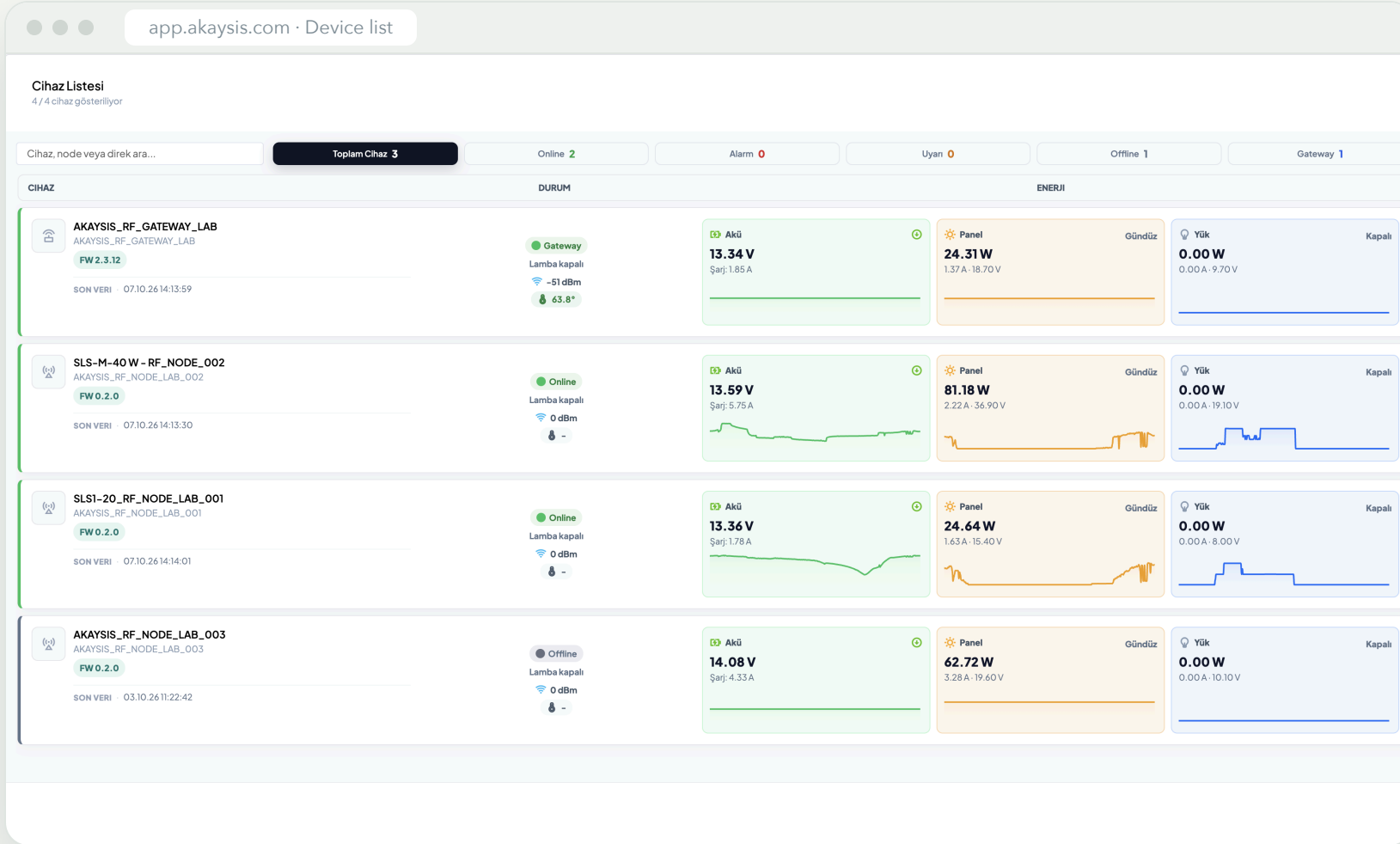
● Offline



Click a lamp, see the lamp

Battery, solar, load and last contact open straight from the map.

Battery, solar panel and lamp – for every pole.



Battery

Voltage and charge current, with the trend of the last hours.



Solar panel

Power, voltage and current. Day or night is shown.



Lamp load

Lamp power and current, on or off, and the dimming level.



Radio and firmware

Signal level, last contact and software version.

Change any lamp from the office.

Settings that used to need a ladder and a laptop are sent from the browser – to one lamp or to a selected group.



Dimming

Brightness level for the night.



Night profile

Up to five time periods, each with its own brightness.



Dusk and dawn

When the lamp turns on and off, and the delay.



Battery care

Charge and protection voltages that keep the battery healthy.



Lamp current

Set in milliamperes; the value you send is the value stored.



One or many

Send to one lamp, or to a whole group at once.

LAMP SETTINGS · EXAMPLE

Dimming



Night profile



Lamp current

1500 mA

Send to 24 lamps

Every command is confirmed by the lamp.

You never have to guess whether a setting arrived. The lamp answers, and the answer appears on your screen.



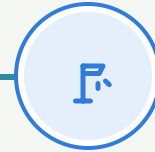
1 · Send

You press send in the web console.



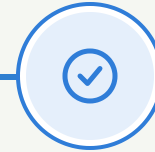
2 · Deliver

The gateway carries it to the lamp over radio.



3 · Apply

The lamp writes the new value.



4 · Confirm

The lamp reports what it stored. That is the ACK.

JOB MONITOR

Lamp 118 · lamp current 1500 → 1500 mA

SUCCESS

Group A · dimming 60 % 22 / 24

PARTIAL

Lamp 007 · lamp test

FAILED



Only confirmed values

The console stores what the lamp reported, not what was asked.



All actions

Settings, lamp on/off, test, reboot and updates.

ALERTS

The alarm finds you – on WhatsApp and e-mail.

When a lamp raises a fault, AKAYSIS sends a message to the right people. Nobody has to watch the screen all night.



Per lamp, your choice

WhatsApp and e-mail switched on separately for each lamp.



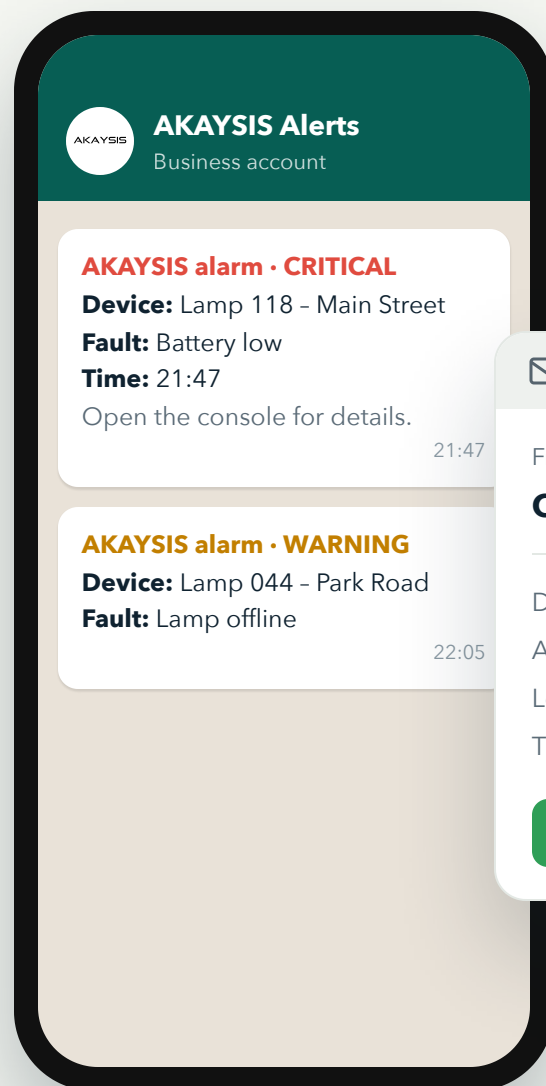
Only what matters

Choose the level – for example, critical faults only.



The right people

Your team, plus extra phone numbers and mail addresses.



Inbox

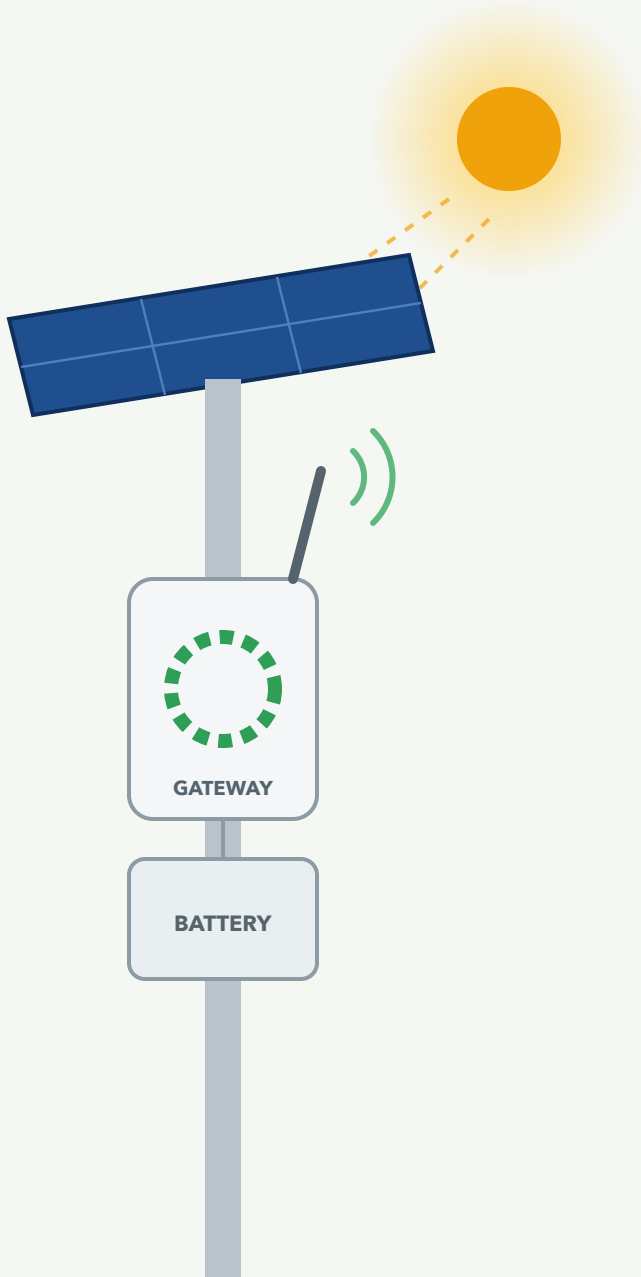
From: AKAYSIS Alarm

CRITICAL · Lamp 118 · Battery low

Device	Lamp 118 - Main Street
Alarm	Battery low
Level	Critical
Time	21:47

[Open in AKAYSIS](#)

● Every sent message is kept in the alarm history



GATEWAY POWER

The gateway runs on the sun, too.

No mains connection needed. The gateway has its own solar panel, battery and charge controller, and reports its own energy to the console.



Solar panel

Power, voltage and current.



Battery

Voltage, and whether it is charging or discharging.



Daily energy

Energy collected and used today.



Temperature

Enclosure and processor temperature.



Controller link

Shows whether the charger is answering.



Install anywhere

Any pole with sun. No cable trench.

New features arrive without a site visit.

Gateway software is updated from the console. The gateway on the pole downloads the package, checks it, installs it and restarts by itself.



1 • Send

Choose the gateway and press update.



2 • Check

The package is downloaded and verified before install.



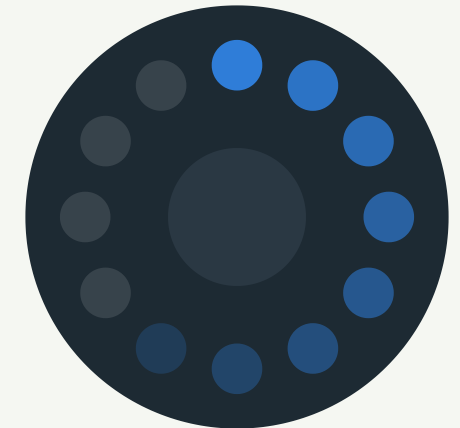
3 • Install

The ring on the box turns blue while it works.



4 • Done

The new version appears in the console.



Blue ring • updating

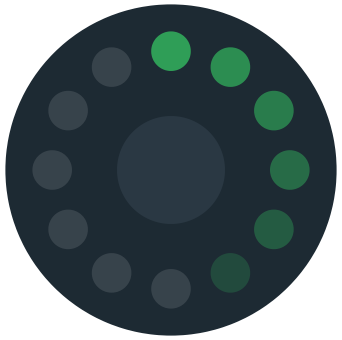
● Started – confirmed by the gateway

● Success – new version running

● Failed – reason reported, old version keeps running

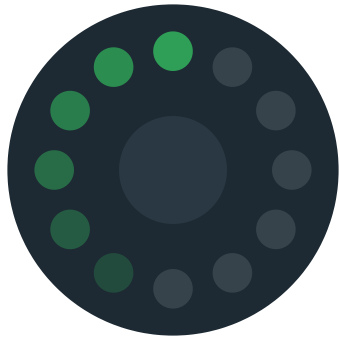
A light ring you can read from the ground.

The gateway shows what it is doing with a ring of 12 lights. A technician on site knows the state without opening the box.



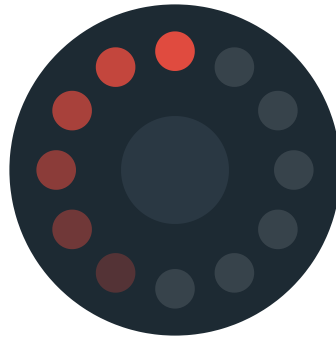
Sending

Green runs clockwise – data going out to the lamps.



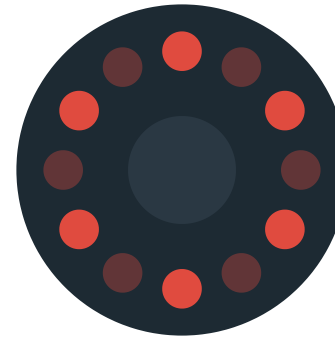
Receiving

Green runs back – answers coming in.



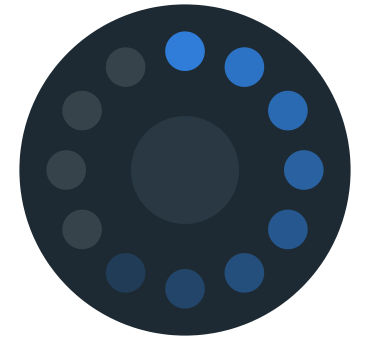
Error reply

Red on the return – the answer was an error.



Link down

Red blink – network down.
Faster blink – local link down.



Updating

Blue flow – new software is being installed.

Works with the Modüled solar lighting family.

Street, park and decorative solar luminaires – all-in-one or with separate panel – become AKAYSIS lamps with the RF node inside.



Split panel street



All-in-one street



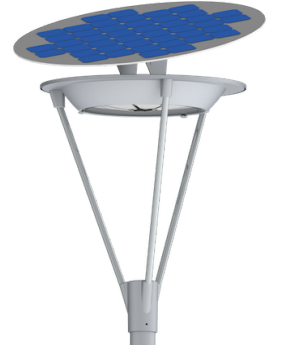
High-power street



Double-arm road



Curved-arm road



Park and garden

● 10 W - 150 W solar luminaires

● RF node built into the lamp

● Same console for every model

Everything in one system.



Live dashboard

Online lamps, energy, battery and alarms.



Map and list

Every lamp and gateway at its real location.



Solar telemetry

Battery, panel and lamp data from each pole.



Remote setup

Dimming, night profile, battery and current.



Confirmed commands

Every write is acknowledged by the lamp.



WhatsApp and e-mail

Alarms sent per lamp, by level, to your team.



RF gateway

200 lamps within 5 km on one gateway.



Solar gateway

No mains needed; its own energy reported.



Remote OTA

Gateway software updated from the console.



Light ring

State visible on the pole from the ground.



Company accounts

Each customer sees only their own field.



Users and roles

Admins and viewers; English and Turkish.

AKAYSIS

SMART LIGHTING SYSTEMS FOR SOLAR LIGHTING

See every lamp. Control from the office. Know first.

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