

FEATURE VISION

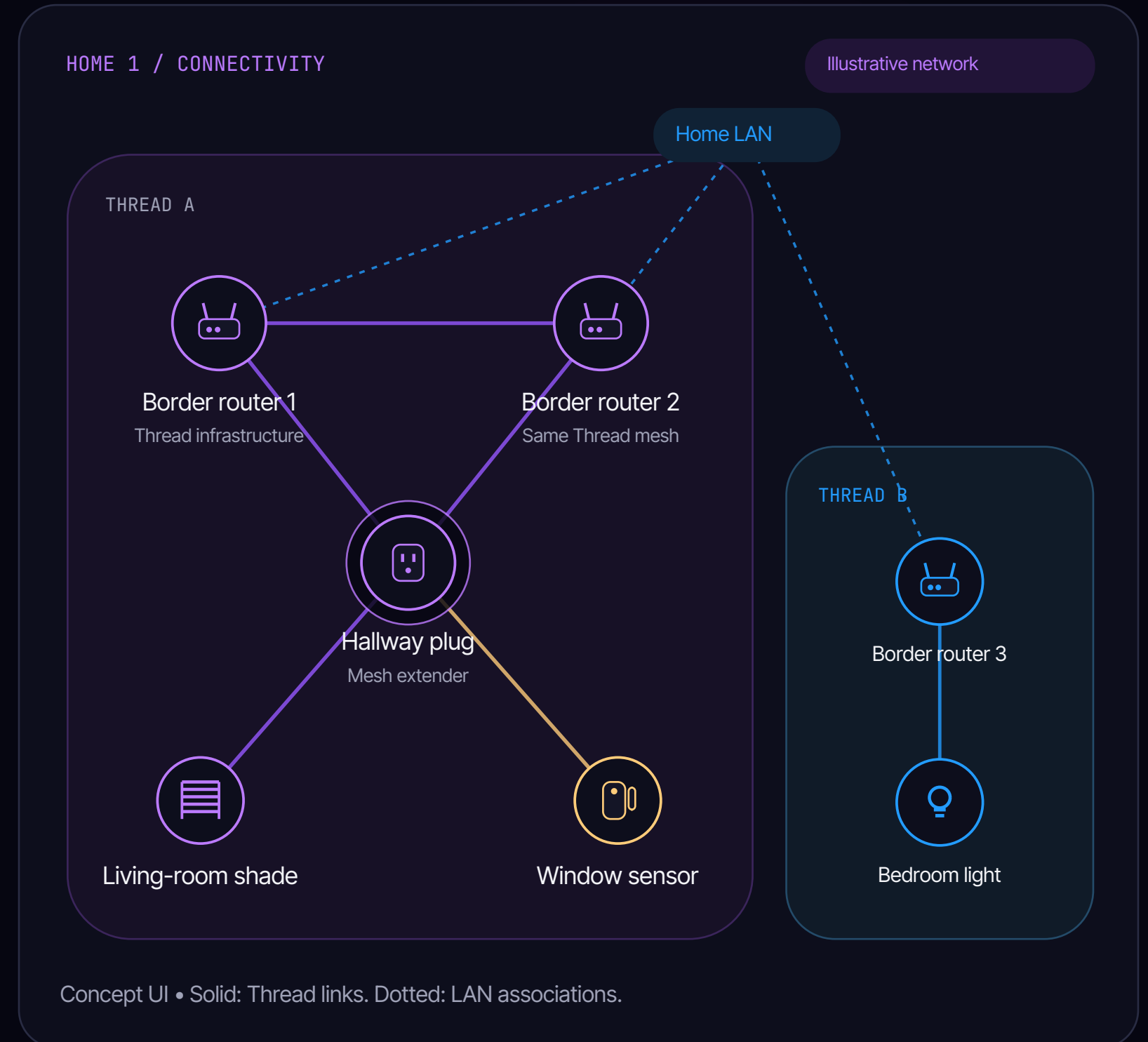
Thread Analyzer

See your network.
Understand your home.

A visual command center for Matter and Thread.
Explore connections, explain problems and guide
supported improvements.



MATTER + THREAD



Your home, beautifully connected.

Zoom from the whole network into a single device. Keep connectivity and control in separate layers.

• • • Thread Analyzer

Home 1

Search devices, rooms or networks

ConnectivityControlCONCEPT

WORKSPACE

Overview

Network map

Devices

Activity

Commission

VIEW OPTIONS

Networks

Rooms

Health

THREAD A

Border router 1

Border router 2

Hallway plug

Living-room shade

Window sensor

Amber: inspect link · Lines: observed relationships

+

21

Thermostat

Matter over Wi-Fi

−

THREAD B

BR 3

Bedside light

DEVICE INSPECTOR

Living-room shade

Needs attention

NETWORKThread A

ROLEEnd device

LAST OBSERVED12 seconds ago

LINK RSSI−81 dBm

Explain this issue

ILLUSTRATIVE DATA

From a red flag to a clear next step.

Cauchy connects diagnostic evidence with device history, room context and your household’s experience.

DEVICE HEALTH / LIVING-ROOM SHADE

Intermittent connection

Thread A · observed through diagnostics

OBSERVED LINK

−81 dBm

RECENT EVENTS

4 reconnects

RECENT HISTORY / ILLUSTRATIVE

18:41

Hallway mesh extender unavailable

18:42

Shade reports a weaker neighbor link

18:46

Repeated reconnects observed

CauchyHome.ai

AI explanation

“Why does this shade keep disconnecting?”

The timing suggests a possible link to the hallway mesh extender becoming unavailable. The shade then reported a weaker connection and repeated reconnects.

WORKING HYPOTHESIS

Correlated events; the cause is not yet confirmed.

Review suggested checks

Inspect power → refresh → compare

Observe → explain → approve → verify

A guided setup. A visible outcome.

Bring supported devices into Cauchy, with the intended home, network and permissions made explicit.

ADD A DEVICE

Welcome home.

Living-room shade

Matter device · ready for setup

HOME

Home 1

THREAD NETWORK

Thread A

CONTROL SYSTEM

CauchyHome fabric

Review & connect

- 01

Discover

Scan the setup code. Confirm the device, selected home and supported capabilities.
- 02

Authorize

Cauchy acts as a Matter commissioner. Supported Thread commissioning and network interfaces provide admission and network setup.
- 03

Verify

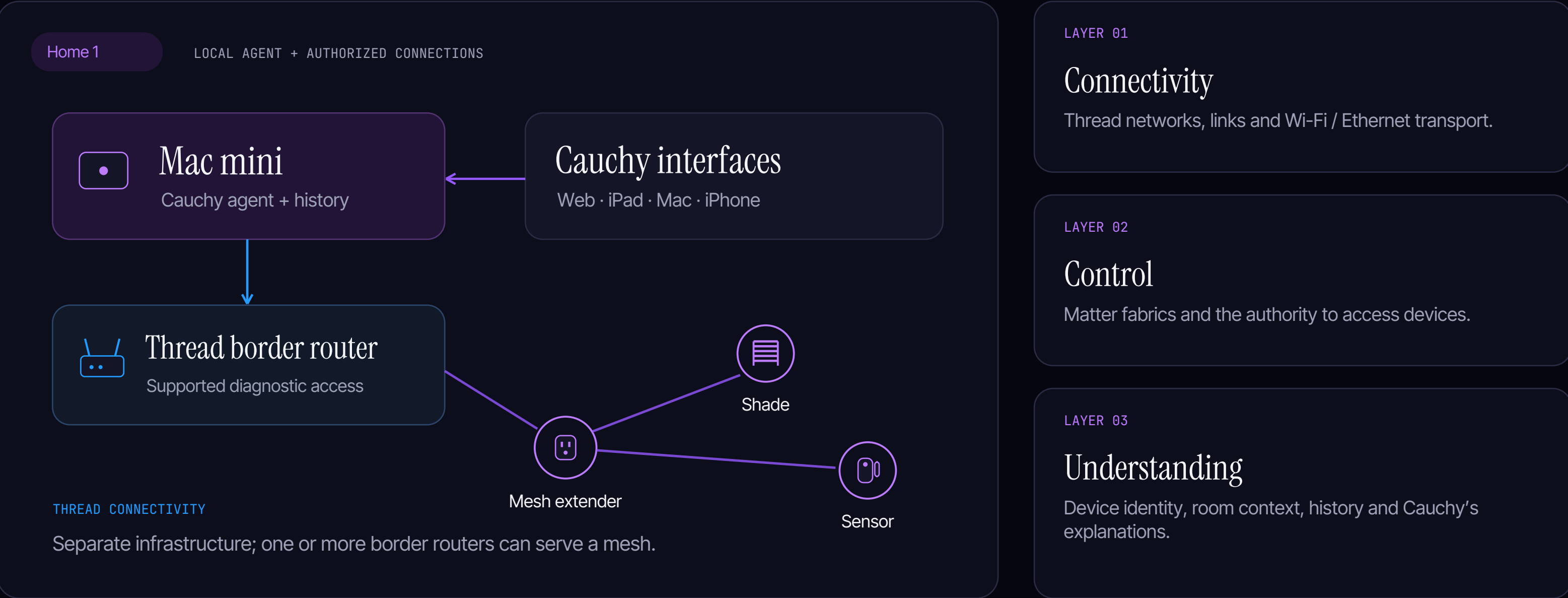
Confirm reachability, read available diagnostics and show the new device in the map.
- Network consolidation

Assess compatibility → preview affected devices → approve → verify

Changes depend on access and device support. Sharing Matter control does not itself move a device to another Thread network. [1–3]

One home. Three distinct layers.

The Mac mini hosts Cauchy’s software. A separate supported border router provides access to the Thread mesh.



A network that becomes easier to live with.

The opportunity: connect visibility, household context and verified follow-through in one managed experience.

01 / REMEMBER

Know the normal.

Build a history for each home, so a new disconnect can be compared with what changed.

02 / EXPLAIN

Make the next step clear.

Translate available diagnostics into an understandable explanation, with evidence and uncertainty.

03 / VERIFY

Learn what helped.

Compare before and after a supported change. Give homeowners and installers a shared record.

Designed to be honest.

Show observed, inferred and unavailable data. Keep sleeping devices distinct from failures. Make consequential changes explicit. Never promise universal mesh merging or automatic access to every device.

TECHNICAL BASIS / SELECTED PRIMARY REFERENCES

[1] Matter commissioning
Google Home Developers ↗

[4] Thread roles and partitions
OpenThread ↗

[2] Thread commissioning
OpenThread ↗

[5] Existing network visualization
OHF Matter Server ↗

[3] Thread network selection
Apple Developer ↗

[6] Thread Tools diagnostics
Thread Group ↗

All interfaces and metrics are illustrative. Planned capabilities require validation. Standards logos identify technologies, not certification or endorsement.