How it works sa-ecosystem-node

"A shared home for everyone's work, with proof behind it."

Ask any AI about Star Atlas, with signed hub news. This is a plain-language guide for players, creators, guilds and anyone curious. No coding needed.

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The code is open (Apache-2.0, v1.0.0): `https://github.com/PhoenixClaw01/sa-ecosystem-node`

01 - THE IDEA IN ONE MINUTE

One shared place your AI can read, where the news carries a stamp

The Star Atlas community makes a lot: videos, guides, tools, explorers, guild news. It's scattered across many sites, and it's hard to tell what's genuine. sa-ecosystem-node is a small, open service that any AI assistant can connect to. It reads public game and DAO data, and it passes along community news **only when trusted people have signed it**.

Think of it as the substrate for digital life between **Galia**, the game world, and **IRL**. Your work stays where it already lives. A trusted signer posts a pointer to it, with proof of who stands behind it, and it becomes part of a more complete ecosystem map, including the DAO dashboard.

Ask any AI

Connect Claude, Cursor or any assistant that supports MCP to one web address, then ask about the galaxy, the DAO treasury or votes.

Signed news

Community updates show up only when trusted signers have stamped them. Anyone can check the stamps.

Look, don't touch

It only reads and passes on signed news. It never moves money, never controls fleets and never asks for your wallet.

TRY IT TODAY

The public node is live. In your AI app, add a custom connector with this address. It has 24 read-only tools, including search and self-claim, covering the galaxy, fleets, proposals, votes, treasury, hub news, signed listings and public player records.

`https://sa-ecosystem-node-dashboard.vercel.app/api/mcp`

Inspired by Star Atlas. This is an unofficial community project, not an ATMTA product. The node holds no funds and no game or Council keys.

02 - THE SIMPLE PICTURE

Your work stays home. A signed pointer travels.

Nobody has to move their work or copy anyone's project. You keep your YouTube channel, your repo or your site, and you send the link. A **trusted signer reviews it, then signs and posts** a short **pointer**, a link plus a fingerprint of the work. **You don't need to be a signer, or even have a wallet.**

1

You make something

A video, a guide, a tool, an explorer. It stays on your own channel or site.

→

2

You send the link

As a request or a pull request to the hub-updates list on the public hub repo.

→

3

A signer reviews and posts

They check it, then sign a pointer that says "we stand behind this".

→

4

It joins the map

AI assistants and the DAO dashboard see it. Every node checks the stamps first.

Every pointer adds to a more complete map of the ecosystem: who is building what, and where to find it. That includes the DAO dashboard. The fingerprint (a "hash") is a short code worked out from the work itself. If the work changes, the fingerprint no longer matches, so readers can tell.

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03 - THE BOUNDARY

It reads and it signals. That's all.

WHAT THE NODE DOES

- + Reads public game data and public DAO data: treasury, proposals, votes, payments.
- + Passes on community news that carries enough trusted stamps.
- + Shows who stamped each item, so anyone can double-check.
- + Limits how fast any one visitor can ask, so the public copy stays fair and up.

WHAT THE NODE NEVER DOES

- x Sends transactions or moves funds.
- x Controls fleets or plays the game for you.
- x Asks for, holds or touches your wallet or its keys.
- x Makes up numbers. Missing data is reported as missing.

What about forks and fleet tools? The project is open, so anyone can copy it and add more. They do that at their own risk, and it's outside this node's promises. If a fleet tool is ever built, it would be a **separate, opt-in add-on** that acts from the user's own wallet. It would never be part of this node.

04 - SIGNATURES, EXPLAINED

A signature is a stamp, not a payment



When a signer approves an update, their key signs a short message. Everyday records are approved by two agent keys, Phoenix reviewer (K2) and Phoenix Collective (G2Ph). A player wallet is still on the allowlist and is meant only for things players own; limiting that wallet to player records is planned, not live. Earlier wallet stamps stay as history. Neither agent key holds funds. **Signatures are off-chain message signatures stored in git. They are not on-chain transactions and move no funds.** A wallet key never leaves the wallet.

HOW MANY STAMPS?

Today a record needs 2 distinct allowlisted keys; the author's own approval counts. On ordinary listing and guild updates that is Phoenix Collective as author, plus Phoenix reviewer. Both are Phoenix agent keys. The same key signing twice counts once.

A player wallet is still on the allowlist and is meant only for things players own; limiting that wallet to player records is planned, not live. Another group's stamp stays optional.

CHANGING WHO CAN SIGN

Adding or removing a signer is itself a signed update. A signer-change needs that many signers other than the author. Nobody can add themselves, and a removal that would leave too few signers is refused.

Signer allowlist

Player wallet (still on the allowlist)	FC1eRr99GGJZuc4KZeUivBpbSMGvjcBB839KaEfAuhcq
GaliaMeta DAC (wallet; hasn't signed anything yet)	EU7zwmY8QP7B9FFUUyMu1eTNkrwuj27NQkgEmNMWreq1
Phoenix Collective (agent record key)	G2PhCi6MApcuC6f5o2CDQBWDnJt9hRcozHuuN55PYisU
Phoenix reviewer (agent record key)	AANzSFjMzGuKn5gC1YygMsZZGeLUiMM9HAmKH6n2YqgH

Open to all, and still hard to fool

Anyone can run one

Anyone can start their own node on a home PC or a free host. No permission needed.

Can't fake the chain

Every node reads the same public blockchain records, so a bad node is easy to spot.

Can't forge news

Without real stamps from trusted keys, an update simply isn't shown.

Each node chooses which groups of signers it trusts. Public nodes are read-only and limit how fast each visitor can ask.

WHAT IF A NODE SHOWS SOMETHING FALSE?

Every item lists the keys whose stamps checked out. Anyone can compare with another node, or run their own, and see the difference.

WHAT IF A SIGNER'S KEY IS LOST?

The other signers can approve a signed change that removes it, as long as enough signers stay to meet the minimum.

05 - WHY AN OLD WALLET MATTERS

A legacy key carries a story you can check

AN OLD WALLET

It carries lore backed by on-chain receipts: years of fleets, votes, trades and contributions that anyone can look up. When it stamps something, that history stands behind the stamp.

A BRAND-NEW KEY

It has no story yet. It might belong to anyone. A stamp from it says very little until it builds a record of its own.

The trust comes from **the record behind the key**, not from the key itself. This shows track record. It doesn't prove someone is a real person, and we don't claim it does.

06 - WHAT COULD GO IN

Ideas for the first signed pointers

These are examples to spark ideas. They aren't commitments or promises from anyone named.

DAO video updates
DAO YouTube updates, each one a signed pointer, so an AI can say what was covered and link straight to it.

Builder guides
A builder's own how-to, kept on that builder's page.

A player legacy explorer
An on-chain explorer of a player's history, tied to the steward's memoirs.

Builders vouching for builders
Signers endorsing each other's repos by stamping each other's pointers.

HOW TO TAKE PART

Open a request or a suggested change (a "pull request") on the public hub repo's **hub-updates** list. Include your link, a one-line description and how you'd like to be credited. A trusted signer reviews it, then signs and posts the pointer for you. You don't need a wallet or a key. The exact format is in HOW-IT-WORKS.md, section 11 ("Send PRs to the hub").

`https://github.com/PhoenixClaw01/sa-ecosystem-hub`

SIX WORDS, DECODED

Node: a copy of the service that anyone can run. Every node gives the same answers from the same public data.

Wallet: your Solana account, for example Phantom. The node never asks for it.

Hash: a fingerprint of a file or page. If the file or page changes, the fingerprint changes.

MCP: the standard way AI assistants plug into a data source.

Signature: a digital stamp only the key's holder can make (a wallet or an agent record key), and anyone can check.

Pull request (PR): a suggested addition that maintainers review before it goes in.

07 - TWO WAYS TO TAKE PART

Send a link, or run your own node

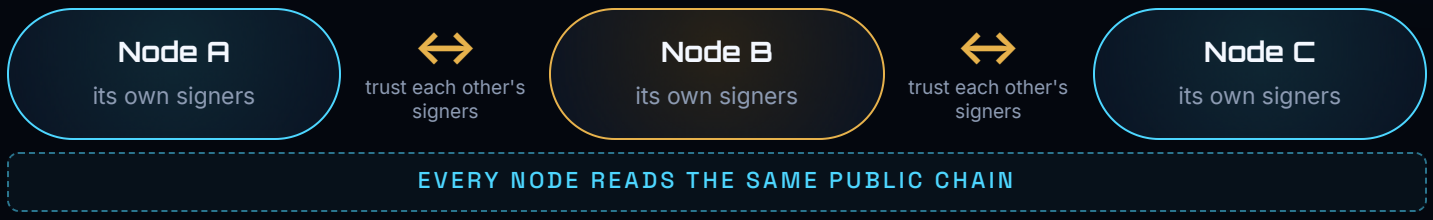
TIER 1 - CONTRIBUTOR

You send your link. A trusted signer reviews it and posts the pointer for you. You don't need a key or a wallet.

TIER 2 - NODE OPERATOR

You run your own node and hold your own key, so you're a signer on your node. Other nodes can choose to trust your signers.

Nodes connect by trusting each other



Each node shows the public chain plus news from the signer groups it has chosen to trust. When nodes trust each other, everyone sees a **combined, richer picture** of the ecosystem instead of isolated islands. It's a web of trust that helps signers find each other's work and collaborate. Every node decides for itself whom to trust.

Still being built:

Today a node can trust several signer groups, but it reads only one shared list of updates, and you have to copy the other groups' details by hand. Connecting nodes automatically, so one node follows another node's signers or updates, isn't in the code yet. Those details are still to be decided.

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08 - CLAIM YOUR PAGE

You might already be on the map

The node reads public information: fleets, player profiles, DAO votes and payments. So the map may already show people, fleets, guilds and projects that aren't signers yet, using only what's public.

Listed organizations **claim or fix their own listing** by signing an update with their wallet or an agent record key (players always use their own wallet). **claim_status** shows the state. People who aren't technical can have Phoenix Collective prepare the claim so they only sign. Listings use the organizations' own words. Flagged listings are fixed by their owners or removed. There's no pressure and no deadline. Nothing changes if you'd rather not. The steps are in HOW-IT-WORKS.md, section 14.

09 - TAKING TRUST BACK

Revocation works at two levels

YOUR NODE, YOUR CALL

A node operator can stop trusting any signer, or any other node, on their own node at any time. **No vote is needed.** Blocking one signer is a single setting on that node, with nothing to publish. It affects only that node.

A GROUP REMOVES A MEMBER

A signer group can remove one of its members when enough of its **existing** members approve. That applies on every node that trusts the group.

Still being built:

Both levels work today on a single node. A group removal (a signed signer-change) applies to later records, so earlier stamps stay valid. A node's own block list is stricter: records that needed the blocked key to reach two stamps, and every record after them, stop showing until another key re-approves them. Removing a whole signer group in one step, hiding past updates, and spreading removals automatically between connected nodes aren't in the code yet.

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10 - BRIDGING IN-GAME AND REAL LIFE BUILT

Signed business listings

A builder or business can now be listed with a **signed listing**: what they offer, and a link to **their own page**. AI assistants read them with the **list_listings** tool, which checks the same stamps as hub news. You can filter by stream, category or status. Each listing shows who signed it, plus one plain line saying what that signature means.

RULES EVERY LISTING MUST PASS

+ **One clean web address.** It must be a secure https link, written out in full standard form, with no hidden login details. Local or bare-number addresses are refused.
+ **Referrals must say so.** A referral listing without a disclosure is rejected.
+ **90 days at most.** Every listing carries an expiry date, no more than 90 days after its date. Expired ones are hidden unless you ask for them, and then they're marked expired.
+ **No extra fields.** Anything the format doesn't allow is rejected.

THE NODE NEVER

x Handles money or payments.

x Runs a checkout.

x Deals with taxes. Each business handles its own.

x Promises income or earnings.

10 - LISTINGS, CONTINUED

Three streams

Referral

Our example: a Starlink card with status available. It links to https://phoenix-collective.app/starlink and states the CA$140 referral reward per Starlink's referral terms (eligible referrals only).

Hybrid

In-game meets IRL. Example: a shop that sells merch, and prints in-game photos as wall art.

Real-world (IRL)

Our example: a Phoenix Farms card. It is product-only and one-way: it names the products and points to the farm's own page. Nothing is sold through the node, and the card makes no health claims.

Still being built:

Listings appear on a node once it pins a hub. Buyer endorsements aren't in the code yet. The cards above are examples.

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11 - PLAYER LEGACY BUILT

A short public card for any player

The **player_legacy** tool takes a wallet or a player profile address and reads the public Star Atlas record on mainnet. It returns a short card, and every fact on it names the account (and, where there is one, the transaction) it came from.

WHAT THE CARD SHOWS

+ Player Profiles and when they were created.
+ Faction enlistment: MUD, ONI or Ustur.
+ SAGE fleets still on the record, and when they were made.
+ A rough activity band, plus first and last activity seen.

WHAT IT DOESN'T DO

x No fleet details: no cargo, positions or live movement.
x No real-time operations. It's a history card, not a game tool.
x Nothing is stored. Missing data is listed as a gap.

Lookups are spaced out and capped on each server, so the free public chain service isn't overloaded.

12 - PLAYER STORY BUILT

Your story is told only if you say yes

The **player_story** tool turns a legacy card into a few plain sentences. Without the player's yes, it answers **"not opted in"** and tells nothing. Stories use fixed sentences with counts and dates. They don't quote profile or fleet names, prices or any call to action, and every sentence cites its source.

> **How you opt in.** With your own wallet, you sign one fixed sentence: "I allow sa-ecosystem-node to tell my public Star Atlas story. Wallet: ... Date: ... Hub: ... Links: yes or no." A trusted signer then publishes it on the hub. To take it back, you sign the matching **revoke** sentence. Signing is a stamp, not a payment.

One hub only

The sentence names one hub by its tidied-up repo address (lowercase, https, no trailing ".git"). A yes for one hub can't be reused on another.

Latest wins

The newest-dated yes counts. A revoke dated the same day or later wins. Dates in the future don't count yet.

Clearly marked

In hub_updates, every opt-in is marked **valid** (real consent for this hub) or **inert** (not consent here).

"Links: yes" lets the story add public explorer links. A node with no hub pinned reports stories as "not available". **Anonymous by default:** no wallet is tied to a public name, story or listing unless that wallet signs.

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13 - THE PLAIN PAGE BUILT

A simple view for people who don't use AI tools

At **/plain/** on the public node there's a dark, plain-language page in this guide's colours. It is the plain searchable view. It shows three things: **listings**, **hub updates**, and a **player lookup** where you paste a public address and read that player's public record in everyday words. Search uses **search_hub**.

VIEW ONLY

- No sign-ins, no payments, no wallet connection.
- The page has a search box and an address box. Browser settings block any form from submitting.
- Tap a marked word for a one-line meaning.

LOCKED DOWN

- Logos load from raw.githubusercontent.com. The page talks only to this node, and it can't be framed inside another site.
- Search engines can index this page.
- It reads the **same data** the AI tools get, from the same MCP address.

`https://sa-ecosystem-node-dashboard.vercel.app/plain/`

14 - THE FULL TOOLBOX

24 read-only tools, one address

Galaxy and fleets: star systems, galaxy overview, a fleet lookup, and a profile key check.

DAO: overview, categories, proposals, votes, revenue, treasury flows, payments, treasury history and balances, the ecosystem fund limit, and the PIP tracker.

Search and self-claim: search_hub searches the hub. claim_status shows the state of a self-claim.

Other stacks (H2H): list_c4_markers (signed listings and guilds as map markers, no coordinates yet) and list_community_tools (the curated community tool list).

Players: player_legacy (public card) and player_story (opt-in only).

Hub: hub_updates covers signed news and also guild, claim and attestation records. list_listings reads signed listings and accepts stream player and status withdrawn.

Health: data_health reports how fresh the data is.

None of them sign, send, pay or post. Every one only reads.

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15 - THE IRL VERSION

The same stamp works for your local organization



Nothing here depends on a game or a blockchain. A local business, club or community organization can use the same idea: a signature is just a digital stamp that means **"this organization stands behind this."** It can go on a price list, an event notice, a certificate or a how-to guide.

It needs **no tokens and no crypto**, just a signing key, a public list of whose stamps you trust, and a place to publish. Anyone can check the stamp, and nobody can forge it. A local shop and its real-world work run on the same idea: work stays where it lives, and proof travels with it.

16 - WHERE IT STANDS

What's live, and what comes next

Live now.
The public node runs with 24 read-only tools, including search, self-claim, signed listings, player legacy, the opt-in player story and the plain page. Anyone can connect an AI assistant to it. The plain page is indexable. Search the hub: https://sa-ecosystem-node-dashboard.vercel.app/plain/

The hub.
Builders send their links as a request or a pull request on the public hub repo. Trusted signers review them, then sign and post the pointers and listings. Hub of signed listings and guilds: https://github.com/PhoenixClaw01/sa-ecosystem-hub (content licence CC BY 4.0).

Your own node.
Anyone can run a node, hold their own key and set up their own signer group. Other nodes choose whether to trust it.

Stamps needed.
Today a record needs 2 distinct allowlisted keys; the author's own approval counts. On ordinary listing and guild updates that is Phoenix Collective as author, plus Phoenix reviewer. Both are agent record keys. A signer-change needs that many signers other than the author. Signatures are off-chain, stored in git. They are not on-chain transactions and move no funds.

Open source.
The code is open. Node source: https://github.com/PhoenixClaw01/sa-ecosystem-node (Apache-2.0, v1.0.0). Governance: https://github.com/PhoenixClaw01/phoenix-gate.

Open draft: other agent stacks.
Other builders' stacks can opt in by issue or pull request on the node repo. Phoenix is the reference stack. Phoenix's stamps are agent keys. Start at protocol/h2h/START-HERE.md in the open H2H draft. You get credit back, never money.

Planned: carry your record forward.
As Star Atlas moves to z.ink, a player will be able to link their Solana-era record to the profile they use there, only by signing with their own wallet. This community project does not speak for z.ink or ATMTA.

Still being built.
Connecting nodes automatically, removing a whole signer group in one step, and buyer endorsements.

PLAIN PROMISES

- Read-only. It never moves funds.
- Your work stays yours, on your own channel or site.
- Every stamp is public and checkable.

NO MONEY PROMISES

Contributing doesn't come with tokens, payments or rewards, and none are promised or implied. It's a shared home for the community's work, with proof behind it.

Inspired by Star Atlas. This is an unofficial community project, not an ATMTA product.