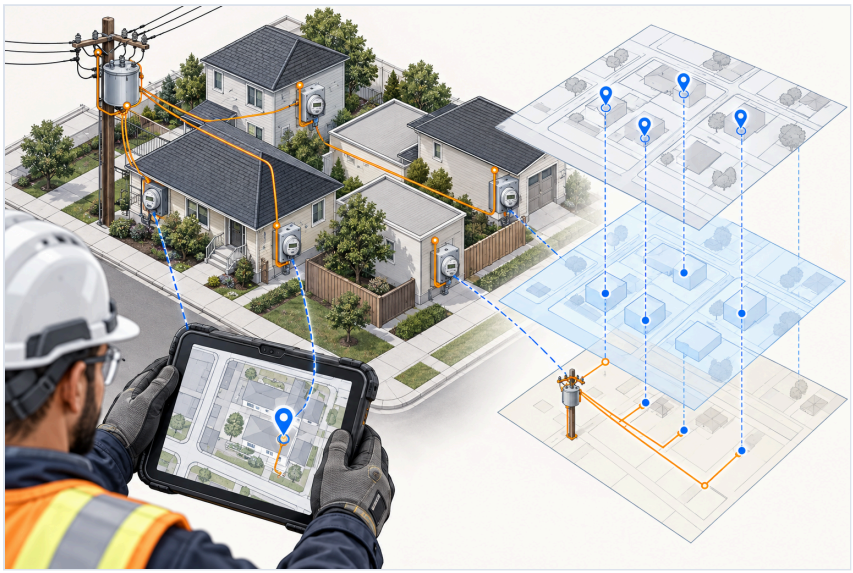
AETHERONE / AETHERGIS

AetherGIS Datasheet

Spatial and location system of record for AMI utilities · Document edition 2026.10



CONCEPT ILLUSTRATION; NOT A CUSTOMER INSTALLATION OR RUNTIME EVIDENCE.

An illustrative AMI spatial scenario: electricity smart meters on neighboring homes, a pole-mounted distribution transformer, three stacked map layers and a surveyor comparing a meter's position with its map marker. The orange lines show the conceptual relation between transformer and meters, not a wiring drawing. It is a concept illustration, not a customer site, a product screen or a record of an operation.

Selection summary

Every smart meter in an AMI utility stands at a place, and AetherGIS is the AetherONE component that answers where. Under the approved design it holds spatial and location truth: normalized addresses and geocode candidates, coordinates and location observations, service areas, versioned network models, map layers, styles and basemaps, source and license metadata, H3 analytics, and the evidence of spatial data quality. The other AetherONE products use that truth through stable references and versioned spatial projections.

This edition is an evaluation interface that runs on synthetic demonstration data. The table sets each area's design intent beside what the interface lets you review.

Intended readers

- **Location-data stewards** who reconcile addresses and competing location observations for service points.
- **Network and communication planners** who review meter, transformer and feeder context and compare versions of the network model.
- **Enterprise architects and evaluation teams** who decide where spatial truth belongs in an AMI platform.

Capabilities and boundaries

Area	Design intent	Reviewable in this edition
Address and location resolution	Normalizes addresses, lists geocode candidates, sets competing location observations beside their evidence and records an approval state.	Address search, normalization inspector, candidate comparison, resolution queue, conflict review and observation explorer.
Location quality	Shows GNSS quality signals and conflicts next to the observations they affect. HES keeps the telemetry.	Quality and conflict dashboard.
Service points and assets	Holds the spatial projection of a service point or an asset, with lineage and source references. Identity stays with CIS.	Spatial views of one service point and one asset.
Network and service areas	Keeps electrical and physical network models as versions, compares the topology of two versions, and shows transformer and feeder service areas.	Network map, model versions, historical topology compare and service-area views.
Communication context	Renders a versioned HES communication-topology projection in spatial context.	Projection view.
Map governance	Governs the layer catalog with ownership and visibility, named map styles, basemap and PMTiles release metadata, and a source, license and provenance registry.	Governance views for layers, styles, releases and sources.
Spatial analytics and quality	H3 aggregation, spatial data-quality exceptions and their freshness, country-pack conventions and integration health.	Heatmap, quality and configuration views.

Every view in the right-hand column runs on deterministic synthetic records, withholds coordinates and carries out no transaction. AetherGIS has no grid-control authority, and its network views make no electrical calculation.

Integration and private-writer responsibility

AetherGIS writes only to its own store and never reads or writes another product's private database. Across a product boundary it exchanges a stable reference or a versioned projection.

Counterpart	Division of responsibility
AetherCIS	Owns the identity and lifecycle of Party, Account, Premise, Service Point and Agreement. GIS keeps stable references and the spatial projection of premise and service-point locations.
AetherHES	Owns device sessions, collection and communication telemetry. GIS can render a versioned communication-topology projection and never writes telemetry.
AetherMDMS	Owns Metering Points, installations, channels, registers and measurements. GIS owns the source topology, and MDMS may keep a frozen version and hash reference of the topology a calculation used.
AetherRevenue	Owns financial truth.
AetherDispatch	Owns field-work execution and can receive site and route context from GIS as a projection.
AetherUtilityConsole	Presents AetherGIS in the unified frontend. It is not a shared backend.

Two versioned contracts describe the intended exchange: one for a normalized location observation, and one for a resolved-location version, which carries the resolved position, the observations behind it and its approval state. Both are design contracts, and no publisher or consumer runs in this edition. The precision and coordinate-system information such a record carries describes the record and is not an accuracy figure.

Edition and evaluation conditions

The responsibilities above are the approved design of AetherGIS, and this edition makes an evaluation interface available. Opened by default, it shows a not-connected state and no records. Deterministic synthetic data appears only when demonstration mode is chosen, and the interface says so. The map is drawn locally from synthetic layers and makes no external map request. An action that would change spatial data, such as approving a location, ranking a candidate or publishing a layer, explains the integration it needs and writes nothing. An unknown identifier or tenant profile ends in an explicit state, never in substitute data.

A GIS service and spatial store, geocoding, tile and map services, H3 computation, GNSS acquisition, authentication and authorization, persistence and completed approvals are outside this edition. No accuracy, capacity, throughput or availability figure is published, and no OGC conformance, certification or regulatory acceptance is claimed. An operating deployment would need those services, source data with its licenses, and approved integration contracts.

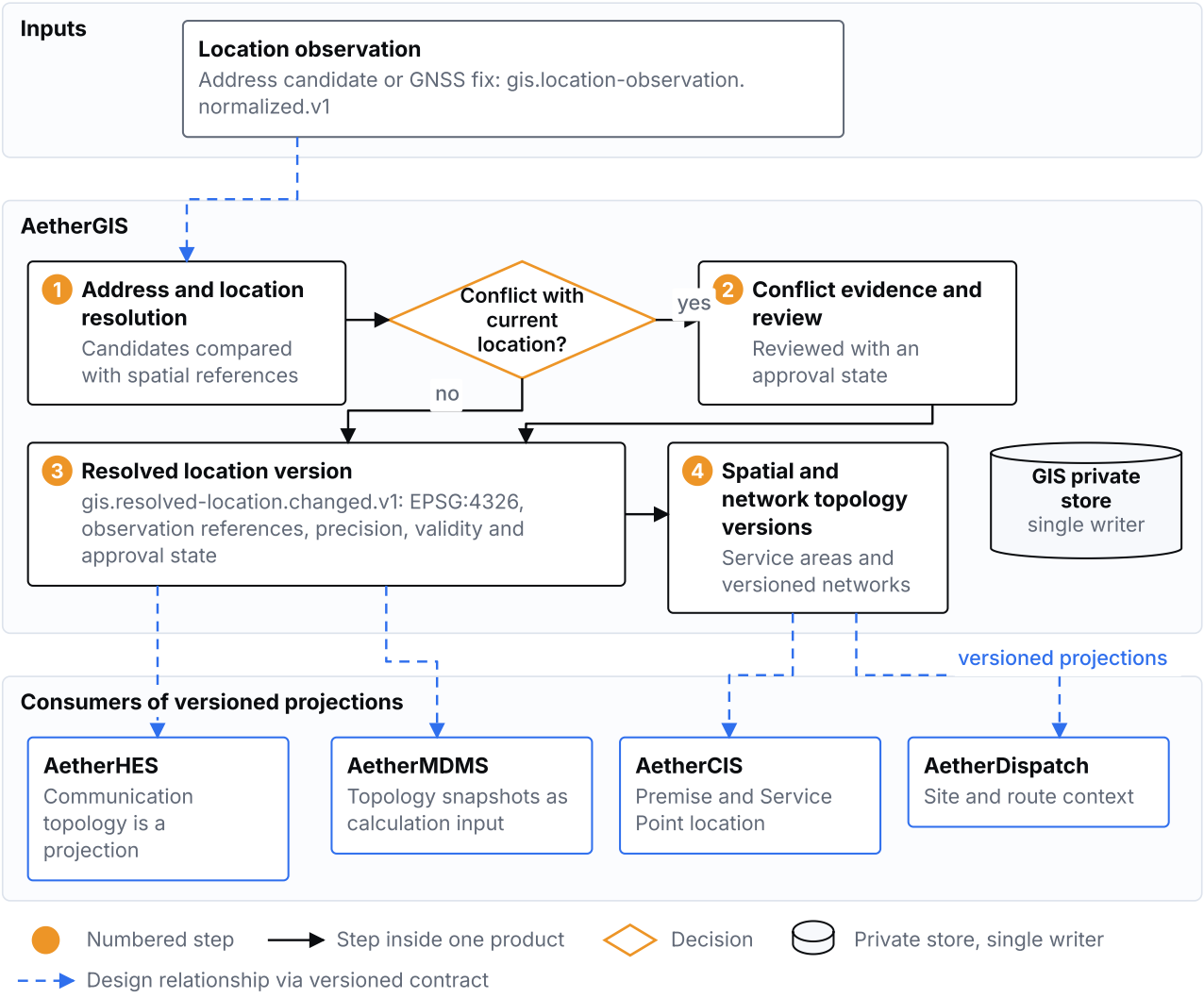
Technical specifications

- **Delivery form.** A browser-based evaluation interface built with React, Vite and TypeScript. The documented local evaluation and build toolchain uses Node.js 24 or later.
- **Reference profiles.** Two synthetic reference profiles are included, one for a Korean regulated-postpaid utility and one for a global utility with postpaid and prepayment. They are demonstration configurations, not customer sites, certifications or regulatory acceptance.
- **Document edition.** 2026.10 identifies this document. It is not a product release.

AetherGIS: one location, from observation to versioned projection

DESIGN WORKFLOW

Design workflow; local maps are synthetic and carry no coordinate truth.



DESIGN WORKFLOW Design workflow: a location observation, either an address candidate or a GNSS fix, passes address and location resolution and a conflict review with an approval state, and becomes a resolved location version. Spatial and network topology versions are published as versioned projections to HES, MDMS, CIS and Dispatch. This is the design workflow; the evaluation interface in this edition does not carry it out.