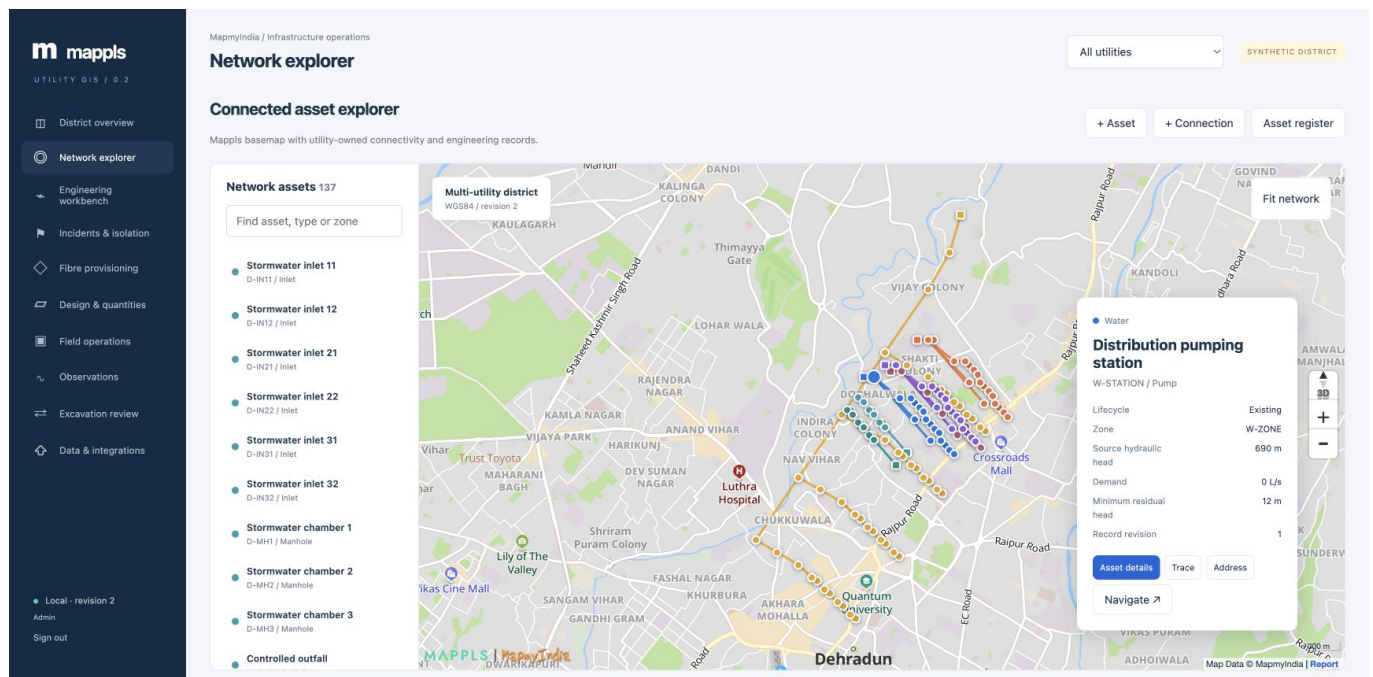


Utility Platform

MapmyIndia / Mappls geospatial foundation | Release 0.5

Utility work across office and field.

Manage power, water, gas, telecom, wastewater, stormwater and district heating with utility-specific asset models, engineering workflows and native Android and iOS field apps. Follow physical connectivity, assess service impact and carry role-guided work through to recorded evidence and review.



Actual local application. 137 synthetic assets and 132 network segments.

For infrastructure owners and engineering teams

A shared register helps teams investigate service impact, plan extensions, maintain equipment and coordinate excavation. Mappls provides the basemap, address context and navigation links.

Evaluation release. Domain screening supports engineering review; operational certification and specialised simulation remain separate acceptance work.

Seven domain models

Typed equipment, connectivity, units and review outputs

Utility	Implemented engineering capability
Power	Electrical voltage/phase checks; open-switch boundaries; source and downstream traces; transformer loading and estimated current.
Water	Reservoirs, pumps, valves, DMA meters and connections; ring supply; velocity and Hazen-Williams head loss; water balance.
Gas	City gates, regulators, valves and CP records; pressure versus MAOP; leak observations; isolation and service impact.
Telecom	POP/OLT, ODF, splitters, chambers and ONTs; strand allocation, port capacity, optical margin and link/SRLG protection checks.
Wastewater	Directed collection topology, invert slope, accumulated flow and Manning full-pipe capacity screening.
Stormwater	Catchment runoff from rainfall, area and coefficient; accumulated demand and drain capacity screening.
District heating	Supply/return temperatures, demand-derived mass flow and segment heat-loss estimates.

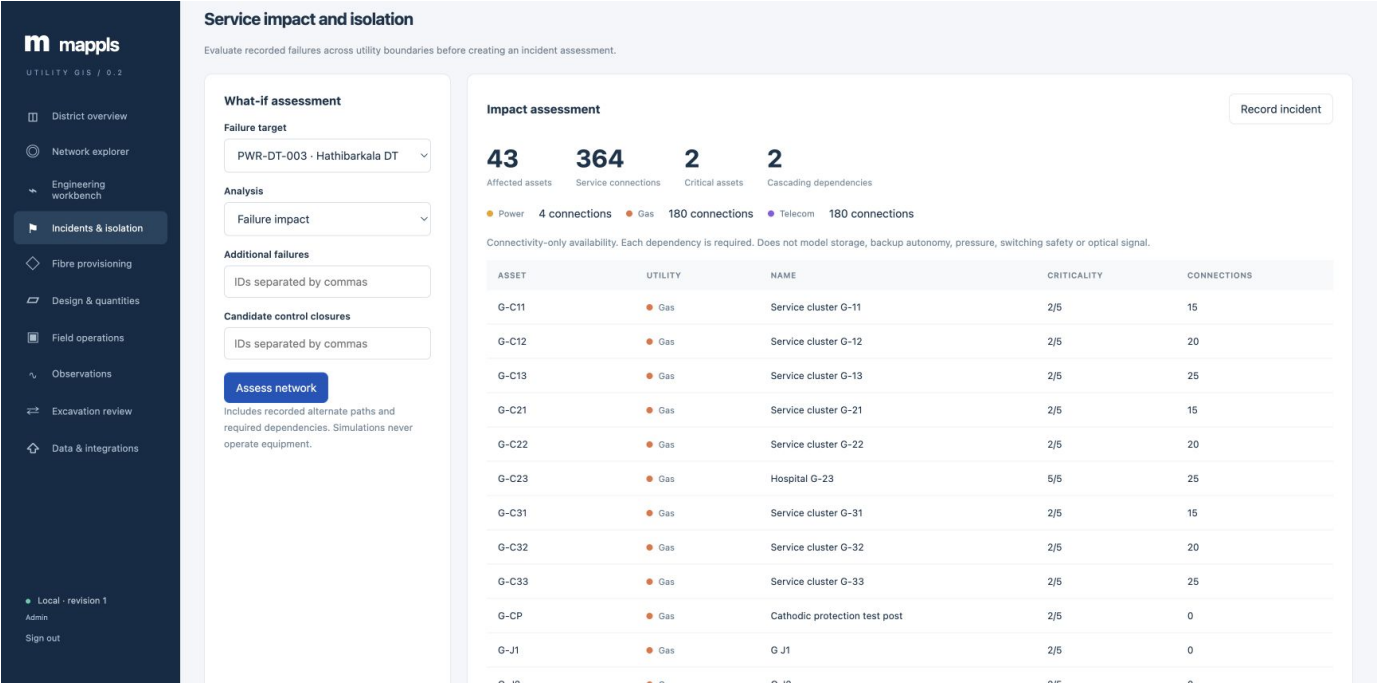
Engineering semantics matter

Closed fluid valves stop connectivity. Open electrical controls stop supply. Wastewater and stormwater flow toward receiving outfalls. Telecom routes require continuous free strands and sufficient optical margin.

Models use explicit engineering units and bounded attributes. Recorded thresholds and synthetic defaults must be reviewed against surveyed network and equipment data.

Dependencies and service impact

Evaluate local failures and their consequences across utility boundaries



Connectivity and dependencies

Failure assessment accounts for available alternate paths and recorded required providers. A power failure can interrupt a dependent telecom node, then a gas telemetry dependency. Outputs identify affected service connections and critical equipment.

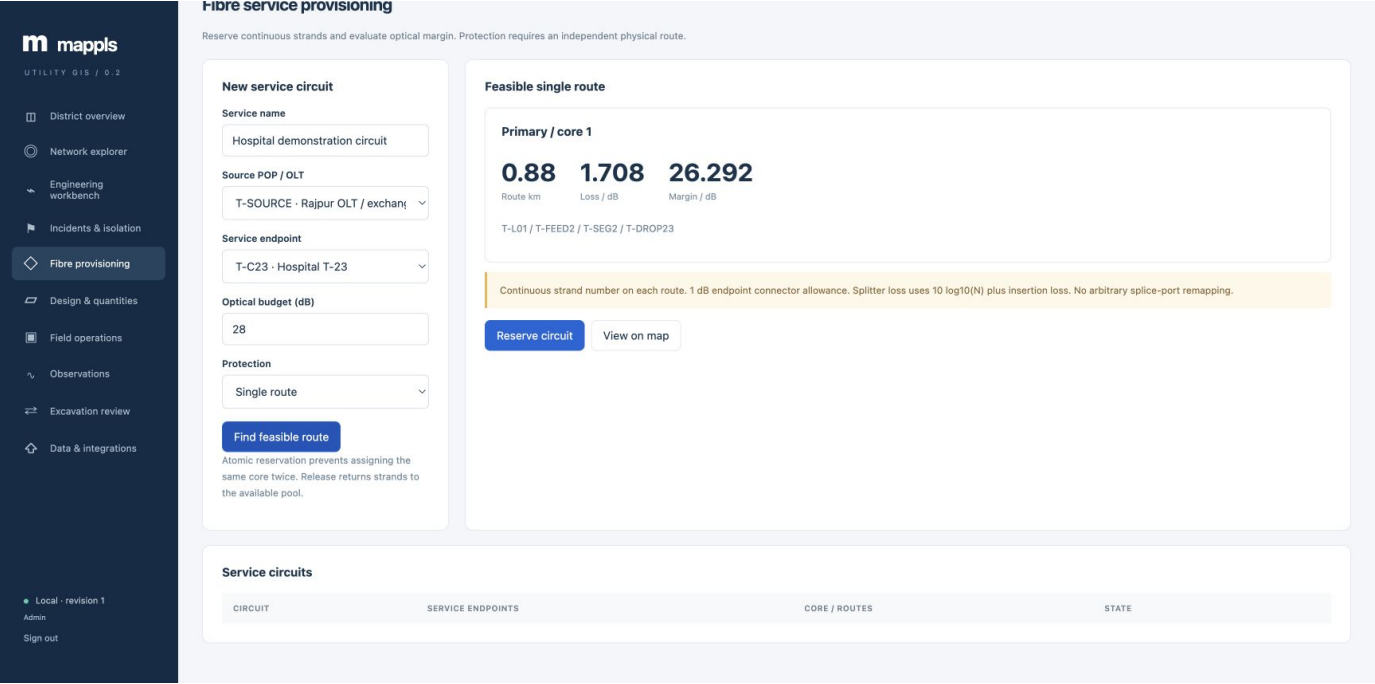
Isolation and incident review

Candidate bounding controls are checked for connectivity isolation. Incident assessments retain their network revision, review history and resolution notes. Network changes require reassessment before approval.

Model boundary: each dependency is treated as required. Backup autonomy, tank storage and process behaviour are not simulated. Isolation output is not a switching order, physical clearance, purge procedure or minimum-cut guarantee.

Design and provision services

Review proposed assets and allocate physical network resources



Fibre provisioning

Find a route with a common free strand and sufficient optical budget. Account for cable attenuation, splices, splitter loss and an explicit endpoint allowance. Check source and target ports. Protected service requires a link- and shared-risk-disjoint second route.

Atomic resource allocation

Reservations run under a transaction lock. An active circuit protects its equipment and links from incompatible edits. Release returns strands to the available pool. The seeded shared uplink deliberately prevents protected service.

Design and quantities

Revised drafts accept typed equipment, connected segments and entered INR unit rates. Review BOM quantities, submit, approve and commission atomically. Stale network revisions invalidate approval.

Quantities use endpoint lengths; surveyed routing, fittings, wastage and labour are excluded. Circuit search is bounded and does not perform arbitrary splice-port remapping.

Maintain assets and review excavation

Recorded evidence and spatial proximity across every utility

Workflow	Implemented capability
Field maintenance	Utility-specific checklists, crew assignment, due date, priority and mandatory completion evidence.
Inspection capture	Condition, notes, optional GPS/photo, asset revision and timezone-aware capture time.
Offline evidence	Browser inspection queue; native encrypted packs and queues for inspections, measurements and work transitions. Foreground sync and conflict review.
Measurements	Typed voltage, pressure, volume, concentration, optical loss, flow, rainfall and temperature observations.
Excavation review	Geodesic distance to equipment and segments across all utilities; recorded depths and nominal vertical differences.
Review history	Draft/reviewed/approved/closed corridor assessments with administrator approval and stale-revision protection.

Data exchange

Atomic GeoJSON import for typed points and two-endpoint lines, dry-run checks and endpoint validation. Export the network, inventory, engineering results and design quantities. A transactional audit chain records changes.

Native field stores use authenticated encryption. The separate browser outbox is not device-encrypted. Corridor proximity requires field verification. Observations are manually entered; no live telemetry feed is connected.

Android and iOS field work

Downloaded utility records and evidence connected to the office platform

Native screen	Work supported
Work	Find jobs by utility, identifier or crew; inspect scope and checklist; queue start or completion with handover evidence.
Assets	Search downloaded equipment and attributes. Capture condition, notes, foreground GPS and photo evidence.
Measurements	Choose a utility-specific metric and displayed unit/range. Record the actual observation and instrument context.
Outbox	Retain encrypted evidence until accepted. Synchronize manually, check receipts and review version conflicts.
Workspace	Access all ten online modules, including Mappls maps, engineering, incidents, designs and administration.
Settings	Review the server and role, refresh the field pack, renew sign-in and clear the device after resolving pending work.

Value for crews and engineers

Crews can carry the asset context into areas with weak connectivity. Engineers review synchronized evidence against the shared asset record, preserving the equipment identity and revision through the handover.

The native app provides field screens. Wider modules retain the responsive web interface inside the app and require connectivity. A downloaded pack is a snapshot, not live operating state.

One platform with clear offline scope

Desktop web, mobile web and native field apps serve different tasks

Capability	Web browser	Native Android / iOS
Full ten-module platform	Online interface	Integrated online workspace
Equipment and assigned work	Online register	Downloaded field pack
Condition inspection	Browser outbox	Encrypted native queue
Measurements and work transitions	Online submission	Encrypted native queue
GPS and photo evidence	Browser/device permission	Native foreground capture
Mappls basemap and engineering	Online	Online workspace
Queue reconciliation	Browser evidence queue	Native Outbox and receipts

Platform requirements

Android 8+ and iOS/iPadOS 17+. Release builds require HTTPS. Initial sign-in, field-pack download, synchronization and the wider workspace need connectivity. Native queues hold up to 100 records and synchronize in the foreground.

Pilot availability

Android development APK and iOS simulator/source packages are available for evaluation. Company signing, physical-device acceptance and managed distribution precede a customer rollout. Store publication and the proposed cloud domain remain unverified.

Separate device queues do not transfer pending evidence between browsers or phones. No offline map tiles, background sync, push dispatch, biometric app lock or remote wipe is represented as delivered.

Guidance, access and delivery

Product resources and a protected utility workspace

Layer / service	Release status
Mappls Maps	Connected Vector Web JS SDK v3 with utility overlays and attribution.
Mappls Search / directions	Connected reverse geocoding; coordinate navigation deep link.
mGIS / enterprise products	No verified tenant credentials configured. mGIS, InTouch and Workmate integrations require licensed tenant access.
Inline guidance	Ten modules with objectives, four role paths, procedures, expected outputs and next handovers.
Product resources	Website /about; mobile overview /mobile; guide /guide; presentation, datasheet and detailed operating manual.
Enquiry workflow	Consent-based public form; private administrator inbox; reference, status and follow-up history.
Delivery and access	Local Docker; Android/iOS field pilot; four roles and revocable mobile sessions. Live hosting requires separate verification.

Operational pilot work

Validate surveyed data and model thresholds; connect enterprise identity and tenant APIs; add specialised solvers where needed. Complete device, signing, security, recovery, scale and engineering acceptance.

No full electrical or hydraulic solver, live SCADA control, certified enterprise interoperability, high availability or production-scale SLA is represented as delivered.

Start a utility pilot

Use the enquiry form on the product website at /about. Share your utility scope, service area and priority workflow. The user guide connects operating objectives, roles and SOP evidence to each module.

Basis: supplied PFC presentation and product datasheet; implemented release 0.5; official Mappls Maps, Search and mGIS documentation. Prepared 24 September 2026.