

Master Sprint Bible

Sprints 1 to 4 · full proof catalogue · single canonical reference

WHAT THIS DOCUMENT IS

The single canonical reference for the EN/ABEL Sovereign Mesh Cell platform.
Every proof, every status, every reserved range, in one place.
Keep this open beside every working session. Regenerate at the close of every sprint.

CUMULATIVE SPRINT PROOF MODEL

- Sprint N = regression(1..N-1) + new(N).
- No sprint passes if any prior sprint proof regresses.
- Each sprint emits two artefact groups: regression/ and new/.
- A sprint folder also contains NNN-sprintN-regression-<scope>-pass.txt as the gate file.

READING LEGEND

PASS	evidence captured and current
PASS-SIM	sim-mode accepted (e.g. proof 025)
SOFTWARE PASS	endpoint reachable; hardware run pending
AWAIT	awaiting hardware run with kit we have
READY	runnable now with the Samsung you already have
PENDING	Sprint 3+ scope, hardware not yet on-site
DESIGN	Sprint 4 design-only; not yet proven

PROOF NUMBER RANGES

020 - 027	Sprint 1	HomePod Anchor baseline
028 - 054	Sprint 2	Phone nodes, SIM-less APK, Sentinel surrogate, Tier A reattach
037a - 037f	Samsung track (S2)	Samsung-as-Sentinel proofs you can run now
055 - 080	Sprint 3	Mobifon APN, Tower, Sat, real Sentinel, cross-cell
071a - 071c	Samsung track (S3)	Samsung body-worn rig + cutover to real Sentinel
081 - 096	Sprint 4	Wireless Energy (design-only today)

Architecture as built

Node classes, services, routing, integrity

NODE CLASSES IN REGISTRY

CLASS	ROLE	STATUS
HomePod Anchor	Pi 5 with peer listener, agent, proof uploader	LIVE
Phone Node A1 / A2	Local sovereign phones paired to anchor	LIVE
Phone Node B1 / C1	Remote testers, APK install pending	AWAIT
Sentinel surrogate	Samsung / Android, hash-chained chunks	READY
Sentinel real	Sealed-enclave body-worn camera	PENDING
Gateway Pro domestic	Jetson Orin edge compute	DESIGN
Gateway Pro commercial	4x NVIDIA edge compute	DESIGN
Tower node	Jetson AGX cell offload	PENDING
Sat hybrid	Starlink primary + Iridium control	PENDING

PI 5 SERVICES

enabel-homepod	anchor identity, registry heartbeat
enabel-homepod-agent	bearer probes, PACE+ decisions, local store
enabel-peer-listener	inbound mesh peers, phone pairing
enabel-proof-uploader	hash-chained proof export, daily Merkle anchor

PACE+ ROUTING MATRIX

Primary	Alternate	Contingency	Emergency
Wi-Fi / Ethernet	LoRa RNode	Bluetooth mesh	Sat (Iridium)
Selection is per-message; sub-30s failover; sim-mode accepted for proof 025.			

INTEGRITY MODEL

- Hash chain: every proof / chunk carries prev_hash | row_hash. Mutating any row breaks the chain.
- Daily Merkle root: proof uploader rolls the day's heads into a Merkle root and anchors it.
- Ed25519 attestation: device keys live in StrongBox / TEE; every signed payload is verified server-side.
- Claims discipline: items marked DESIGN or PENDING must not be presented as proven.

Schema map

Tables that back each sprint

SPRINT 1

home_pods	anchor registry
home_pod_heartbeats	30s heartbeat stream
home_pod_commands	remote probe / command queue
bearer_samples	per-bearer reachability + RSSI
pace_decisions	PACE+ routing outcomes
node_proofs	hash-chained proof stream
ledger_anchors	daily Merkle anchors
mesh_proof_chain	legacy mesh-proof chain (regression)

SPRINT 2

phone_nodes	phone node registry + pairing codes
sentinel_surrogate_chunks	sealed chunk chain (Samsung + others)
federated_cell_sessions	5-device cell outcomes
cell_membership	members per cell
cells	cell registry
agent_turn_attestations	Ed25519 zero-egress proofs
edge_compute_inventory	Jetson / NVIDIA inventory
field_test_catalogue	36 AmPoRaH catalogue tests
proof_runs	per-execution proof status
proof_expectations	expected proof catalogue 020-080

SPRINT 3

plmn_policies	Mobifon APN policies
(future) tower_nodes	Jetson AGX tower registry
(future) sat_links	Starlink + Iridium link state
(future) sentinel_real_keys	TEE-bound sealed keys
(future) federation_links	cross-cell links

SPRINT 4

(future) energy_envelope	harvest + delivery envelope (design)
(future) energy_safety_runs	ICNIRP / IEEE C95 sim runs

SPRINT 1

Sprint 1: HomePod Anchor baseline

Locked baseline 020 - 027

8 of 8 PASS. Proof 025 PASS with sim-mode accepted to avoid stranding the HomePod under Wi-Fi-down testing. Regression nightly via `sprint1-regression.sh` and on every PR.

PROOF CATALOGUE

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
020	status-api-restored	PASS	GET /api/public/node/status
021	node-registry-enrol	PASS	GET /api/public/node/registry
022	heartbeat-30s	PASS	home_pod_heartbeats < 60s
023	bearer-sample-lora-wifi	PASS	bearer_samples both bearers / 1h
024	pace-v1-hybrid-route	PASS	pace_decisions hybrid outcome
025	pace-v1-wifi-loss-lora-control	PASS-SIM	sim-mode default; hardware opt-in
026	proof-uploader-chain	PASS	node_proofs head verifies
027	regression-existing-mesh-proof	PASS	mesh_proof_chain head verifies

WHAT EACH PROOF ACTUALLY VERIFIES

020	/api/public/node/status returns 200 with anchor + heartbeat shape.
021	home_pods accepts a new enrolment and reads back via /registry.
022	Anchor heartbeat in home_pod_heartbeats is < 60s old.
023	bearer_samples contains both LoRa and Wi-Fi rows in last hour.
024	pace_decisions has a hybrid-routed message in last hour.
025	Wi-Fi-loss test runs in sim-mode by default to avoid stranding.
026	node_proofs head verifies through to tail via chain replay.
027	Legacy mesh_proof_chain head still verifies (no regression).

SPRINT 1

Sprint 1 operations

Harness, endpoints, evidence

HARNESS

```
scripts/verify/sprint1-regression.sh
- runs 8 baseline checks
- writes public/downloads/proofs/sprint1/regression/NNN.{pass,fail,skipped}.txt
- POSTs each result to /api/public/proof/run (X-Proof-Token gated)
```

ENDPOINTS TOUCHED

```
GET /api/public/node/status
GET /api/public/node/registry
POST /api/public/node/heartbeat
POST /api/public/node/proof
POST /api/public/proof/run
GET /api/mesh-proof/status (legacy regression)
```

DASHBOARDS

/ddrr/uat	Cumulative Proof Stack + claims pills
/ddrr/uat/homepods	fleet, bearer matrix, remote probe
/ddrr/uat/proofs	per-proof drill-down
/ddrr/uat/pace	PACE+ decisions
/ddrr/uat/cells	cell membership

GATE FILE

027-sprint1-regression-homepod-pass.txt is the cumulative gate for Sprint 2. Three consecutive green runs before Sprint 2 hardware proofs unlock.

SPRINT 2 **Sprint 2: Phone nodes + Sentinel surrogate**

Software endpoints PASS; hardware proofs AWAIT

PHONE NODES (028 - 033)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
028	phone-a1-register	PASS	POST /api/public/phone/register
029	phone-a2-register	PASS	POST /api/public/phone/register
030	phone-a1-homepod-pair	PASS	POST /api/public/phone/heartbeat
031	phone-a1-a2-local-sovereign-chat	AWAIT	two live phones paired
032	phone-a1-a2-local-voice	AWAIT	IP-mesh voice
033	phone-a1-a2-local-video	AWAIT	IP-mesh video

SENTINEL SURROGATE (034 - 037)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
034	bodycam-surrogate-record	PASS	POST /sentinel-surrogate/chunk
035	sentinel-surrogate-sealed-chain	PASS	trigger hashes on insert
036	sentinel-surrogate-tamper-detect	PASS	verify flags tamper
037	sentinel-surrogate-merkle-anchor	PASS	merkle_root + daily anchor

SAMSUNG-AS-SENTINEL TRACK (037A - 037F, RUNNABLE NOW)

Use any Samsung Android device on hand. Reuses sentinel_surrogate_chunks + /api/public/sentinel-surrogate/*. No external dependency.

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
037a	samsung-sentinel-enrol	READY	Ed25519 in StrongBox / Keymaster
037b	samsung-sentinel-capture	READY	sealed chunk stream from camera/mic
037c	samsung-sentinel-chain-verify	READY	GET /sentinel-surrogate/verify
037d	samsung-sentinel-tamper	READY	tamper_flag flips, chain breaks
037e	samsung-sentinel-merkle-anchor	READY	Samsung included in daily root
037f	samsung-sentinel-offline-replay	READY	offline -> reconnect -> verify

SPRINT 2 Sprint 2: remote testers + federated cell

Hardware-dependent proofs awaiting kit

REMOTE TESTERS (038 - 047)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
038	remote-phone-c1-apk-install	AWAIT	remote tester APK install
039	remote-phone-c1-pairing-code	AWAIT	6-digit pairing code flow
040	remote-phone-c1-dashboard-visible	AWAIT	/ddrr/uat/phones
041	remote-phone-c1-mesh-chat	AWAIT	end-to-end mesh chat
042	remote-phone-c1-dashboard-reply	AWAIT	dashboard reply
043	remote-phone-b1-register	AWAIT	second remote phone enrol
044	remote-phone-b1-dashboard-visible	AWAIT	node visible in registry
045	remote-node-token-captured	AWAIT	ed25519 device key recorded
046	remote-node-bluetooth-pairing	AWAIT	BT short-range pairing
047	remote-phone-b1-rnode-link	AWAIT	LoRa RNode link to phone

FIVE-DEVICE FEDERATED CELL + REATTACH (048 - 054)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
048	five-device-federated-cell	AWAIT	cell with 5 members forms
049	five-device-group-chat	AWAIT	group message fan-out
050	five-device-voice-call	AWAIT	multi-party voice
051	five-device-video-call	AWAIT	multi-party video
052	five-device-proof-export	AWAIT	signed proof bundle export
053	tier-a-assisted-reattach-three-devices	AWAIT	Tier-A reattach flow
054	sprint2-regression-homepod-anchor	PASS	cumulative gate: S1 still PASS

SPRINT 2 Sprint 2 runbook + APK modules

Phases 0 - 6; mobile code in tree

APK MODULES IN TREE (MOBILE/NATIVE/ANDROID/)

AttestationManager.kt	StrongBox / Keymaster Ed25519 keys
FieldTesterSessionClient.kt	AmPoRaH catalogue session
PentestAgent.kt	dual-admin gated offensive primitives
PhoneNodeRegister.kt	6-digit pairing + register
SentinelSurrogate.kt	sealed chunk capture (works on Samsung)
FederatedCellClient.kt	5-device group session

BRING-UP PHASES

Phase 0	Confirm Sprint 1 regression three consecutive greens.
Phase 1	Provision PHONE-A1 + A2 slots on /ddrr/uat/phones, copy pairing codes.
Phase 2	Flash APK to A1, A2, and Samsung-as-Sentinel; register all three.
Phase 3	Run Samsung track 037a-f; capture, verify, tamper-test, replay.
Phase 4	Local A1/A2 chat / voice / video (031-033) once paired.
Phase 5	Remote testers B1 / C1 register and join cell (038-047).
Phase 6	Form 5-device federated cell; export signed proof bundle (048-053).

WHAT UNBLOCKS SPRINT 3

- 5-device federated cell forms at least once (proof 048).
- Samsung-as-Sentinel chain verifies under 60-minute body-worn movement (sets stage for 071a).
- Three consecutive green Sprint 2 regression runs in CI.

SPRINT 3

Sprint 3: Mobifon APN + Tower node

Carrier privilege + Jetson cell offload

MOBIFON APN BRING-UP (055 - 058)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
055	mobifon-sim-provisioning	PENDING	carrier SIM activation
056	mobifon-apn-handshake	PENDING	APN attach success
057	mobifon-carrier-privilege-grant	PENDING	UICC certificate accepted
058	mobifon-public-apn-fallback	PENDING	fallback path verifies

TOWER NODE JETSON (059 - 064)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
059	tower-jetson-bringup	PENDING	Jetson AGX docker stack live
060	tower-inbound-mesh-tunnels	PENDING	cell offload accepted
061	tower-platform-offload	PENDING	proofs delivered to platform
062	tower-24h-soak	PENDING	24h continuous uptime
063	tower-edge-compute-attestation	PENDING	Jetson compute attests
064	tower-killswitch	PENDING	remote kill returns to safe

HARDWARE NEEDED BEFORE UNLOCK

- Mobifon test SIMs + UICC profile + APN credentials.
- Jetson AGX (Orin 64GB recommended) with docker, mesh tunnels, kill switch.
- Stable inbound public network at the tower location.

SPRINT 3

Sprint 3: Sat hybrid + real Sentinel

Starlink + Iridium; sealed-enclave body-worn

SAT HYBRID (065 - 070)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
065	sat-starlink-reach	PENDING	Starlink dish reachable
066	sat-iridium-control	PENDING	Iridium control plane up
067	sat-failover	PENDING	primary loss -> Iridium <30s
068	sat-dual-path-pace	PENDING	PACE+ selects sat correctly
069	sat-time-sync	PENDING	GNSS / NTP via sat
070	sat-cost-geofence-gate	PENDING	cost / geofence gating enforced

REAL SENTINEL BODY-WORN (071 - 076)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
071	real-sentinel-enclave-keygen	PENDING	sealed enclave key minted
072	real-sentinel-on-device-hashing	PENDING	chunks hashed in TEE
073	real-sentinel-surrogate-cutover	PENDING	surrogate -> real cutover
074	real-sentinel-custody-export	PENDING	chain of custody bundle
075	real-sentinel-court-bundle	PENDING	court-ready evidence pack
076	real-sentinel-tamper-test	PENDING	physical tamper detected

SAMSUNG-AS-SENTINEL CUTOVER (071A - 071C, RUNNABLE NOW)

The bridge from surrogate to real Sentinel. Samsung carries the body-worn rig until real hardware arrives, then both run side-by-side for parity.

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
071a	samsung-sentinel-bodyworn-rig	AWAIT	60-min movement, no breaks
071b	samsung-sentinel-evidence-export	AWAIT	verifier script PASS
071c	samsung-sentinel-vs-real-parity	AWAIT	side-by-side with real Sentinel

SPRINT 3

Sprint 3: cross-cell federation

Two cells operate as one network

FEDERATION (077 - 080)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
077	cross-cell-negotiate	PENDING	two cells discover + handshake
078	cross-cell-signed-proof-exchange	PENDING	Ed25519 proofs round-trip
079	cell-of-cells-view	PENDING	/ddrr/uat/cells federated mode
080	cross-cell-partitioned-mode	PENDING	operates while split

AMPORAH-ALIGNED TEST CATALOGUE MAPPING

The 36 AmPoRaH catalogue tests (field_test_catalogue) cover RF, Mesh, Protocol, Integrity, and Covert categories. Sprint 3 unlocks the Covert and Integrity rows that need real Sentinel hardware to run end-to-end.

RF	10	spectrum sweep, RSSI, jamming detection (most runnable in Sprint 2 today)
Mesh	10	multi-hop, partition, reattach (need 5-device cell, Sprint 2 hardware)
Protocol	8	Reticulum, LXMf, NomadNet conformance (some software-only)
Integrity	4	chain verify, Merkle anchor, key attest (Samsung covers most)
Covert	4	engagement-gated, dual-admin (real Sentinel hardware preferred)

SPRINT 3

Sprint 3 hardware shopping list

What we need to source before unlock

ITEM	QTY	PURPOSE
Mobifon test SIMs	x4	APN access, UICC carrier privilege
Jetson AGX Orin 64GB	x1	Tower node compute
Tower housing + PoE	x1	Outdoor enclosure, PoE injector
Starlink Mini dish	x1	Sat primary path
Iridium Edge / 9603	x1	Sat control plane
Body-worn Sentinel (real)	x1	Sealed-enclave camera
Body-worn mount	x1	Samsung rig for 071a
Second cell location	n/a	Geographic split for federation
LoRa RNode pairs	x2+	Extends mesh range, B1 link

SPRINT 4

Sprint 4: Wireless Energy

Design only today. 081 - 096. Not yet proven.

Every Sprint 4 proof is DESIGN. They define envelopes, models, and the regulatory path so the build is ready when hardware allows. Do not present these as proven.

DOMESTIC GATEWAY PRO (JETSON ORIN)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
081	domestic-gateway-harvest-envelope	DESIGN	Jetson Orin envelope sized
082	domestic-gateway-budget-model	DESIGN	kWh / day model
083	domestic-gateway-thermal-budget	DESIGN	thermal envelope verified
084	domestic-gateway-uptime-model	DESIGN	uptime under harvest

COMMERCIAL GATEWAY PRO (4X NVIDIA)

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
085	commercial-gateway-four-rail	DESIGN	4x NVIDIA rail design
086	commercial-gateway-fan-out	DESIGN	load fan-out across rails
087	commercial-gateway-redundancy	DESIGN	single rail loss tolerated
088	commercial-gateway-cost-model	DESIGN	TCO modelled

SPRINT 4

Sprint 4: Wireless Energy (continued)

Field tester + wireless delivery

FIELD TESTER POWER

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
089	field-tester-power-profile	DESIGN	all-day power profile
090	field-tester-charge-budget	DESIGN	charge cycle envelope
091	field-tester-low-power-mode	DESIGN	graceful degrade
092	field-tester-thermal	DESIGN	outdoor thermal envelope

WIRELESS DELIVERY

ID	PROOF	STATUS	EVIDENCE / ENDPOINT
093	wireless-delivery-prototype	DESIGN	near-field rig only
094	wireless-delivery-safety	DESIGN	ICNIRP / IEEE C95 sim
095	wireless-delivery-range-model	DESIGN	range vs power model
096	wireless-delivery-regulatory	DESIGN	regulatory path mapped

CLAIMS DISCIPLINE (SPRINT 4)

- Range, efficiency, and safety claims must reference a specific run id.
- Until 093-096 have evidence, talk about envelopes and models, not delivery.
- Regulatory engagement (ICNIRP, IEEE C95, Ofcom) is a pre-req, not an afterthought.

LifeLine package crossref

Product surface, not proof surface

LifeLine is shipped to /lifeline/* routes as a product (SIM, education hub, wizard, installer course). It does not carry proof IDs in this catalogue. This page is a pointer so nothing is lost.

ROUTES SHIPPED

/lifeline	landing + package overview
/lifeline/wizard	7-step identity wizard with DVLA/HMPO logic
/lifeline/educate	Education Hub: sex-aware module ordering, KS3 to Adult
/lifeline/jobs	aggregated jobs
/lifeline/wellness	health + nutrition trackers
/lifeline/installer	AmPoRaH net positive home installer course path

REFERENCE PDFS

public/downloads/LifeLine-Brief.pdf
public/downloads/LifeLine-Funding-Model.pdf

HOW LIFELINE PLUGS INTO THE SPRINT TIMELINE

- Sprint 1: no dependency. LifeLine is independent product surface.
- Sprint 2: optional - paired phone can also be a LifeLine SIM holder.
- Sprint 3: Mobifon APN bring-up benefits LifeLine SIM provisioning.
- Sprint 4: AmPoRaH installer course aligns with Gateway Pro rollout.

Maritime + Sovereign Stack crossref

Pointer table to existing briefs

FILE	DESCRIPTION	TIMELINE
EN-ABEL-Maritime-Enigma-E2E-Test-Guide.pdf	Maritime test plan	Sprint 2 + 3 overlap
EN-ABEL-Maritime-Enigma-E2E-Verification-Report.pdf	Maritime evidence	current state
EN-ABEL-Maritime-Enigma-Phone-As-Node.pdf	Phone-as-node guide	Sprint 2 PHONE-A1/A2
EN-ABEL-VMR-Mesh-E2E-Verification-Report.pdf	VMR routing report	Sprint 2 transport
EN-ABEL-Sovereign-Stack-3Device-Runbook.pdf	3-device sovereign runbook	Sprint 2 baseline
EN-ABEL-DDRR-Tier-ABC-Provability-Status.pdf	Tier A/B/C provability	Sprint 2 reattach
EN-ABEL-DDRR-3Device-Proof-Runbook.pdf	3-device proof runbook	current
EN-ABEL-DDRR-Solo-2Device-Proof-Runbook.pdf	solo 2-device runbook	current
EN-ABEL-DDRR-Carrier-Privileges-Mobifon.pdf	carrier privileges plan	Sprint 3 inputs
EN-ABEL-Security-Comparison.pdf	security comparison vs Axon / Mo	marketing
EN-ABEL-Sentinel-Node-Brief.pdf	Sentinel umbrella brief	Sprint 2 + 3 spine
EN-ABEL-Sprint-Proof-Model.pdf	proof model 1-pager	this rulebook
EN-ABEL-Sprint2-Runbook.pdf	Sprint 2 bring-up	phases 0-6
EN-ABEL-Sprint1-2-Status-Report.pdf	Sprint 1+2 status snapshot	diff baseline

Operations

Harness, CI, evidence, ingest, discipline

HARNESS SCRIPTS

scripts/verify/sprint1-regression.sh	baseline 020-027
scripts/verify/sprint2-regression.sh	cumulative: re-runs S1 first, then S2
scripts/verify/sprint3-regression.sh	(future) cumulative through S2

CI WORKFLOW

- .github/workflows/proof-regression.yml runs nightly at 03:00 UTC and on every PR to main.
- sprint2 job needs: sprint1. Sprint 3 will need: sprint2. Cumulative chain enforced.
- Artefacts uploaded for 90 days under sprint{N}-regression-{run_id}.

EVIDENCE LAYOUT

public/downloads/proofs/sprint1/regression/NNN.{pass,fail,skipped}.txt
public/downloads/proofs/sprint2/regression/NNN.{pass,fail,skipped}.txt
public/downloads/proofs/sprint2/new/037a-f Samsung evidence drop
public/downloads/proofs/sprint3/{regression,new}/...

INGEST ENDPOINT

POST /api/public/proof/run accepts {proof_id, sprint, kind, status, notes, run_by}. Token gated via X-Proof-Token (PROOF_INGEST_TOKEN or MDM_WEBHOOK_SECRET fallback).

Claims discipline

What we can and cannot say externally

CLEARED TO SAY

- HomePod Anchor baseline 020-027 PASS (with 025 sim-mode).
- Phone register / pair / heartbeat endpoints PASS.
- Sentinel surrogate chain (sealed chunks, tamper detect, Merkle anchor) PASS.
- Samsung-as-Sentinel runnable today (037a-f) and on the bring-up plan.
- 5-device federated cell software is in tree; hardware proof pending.

DO NOT YET CLAIM

- Mobifon APN bring-up (055-058) - PENDING.
- Tower node Jetson (059-064) - PENDING.
- Sat hybrid Starlink + Iridium (065-070) - PENDING.
- Real Sentinel sealed-enclave hardware (071-076) - PENDING.
- Cross-cell federation (077-080) - PENDING.
- Wireless Energy delivery (081-096) - DESIGN only.

INVESTOR / PARTNER FRAMING

Lead with what is PASS, name what is AWAIT and PENDING with their proof IDs, never blur the line. A claim without a proof ID is a marketing claim, not a technical claim.

Glossary

Acronyms and shared vocabulary

AmPoRaH	the multi-band RF + protocol field-tester module (IP-protected name in external comms)
Anchor	HomePod / Pi 5 cell anchor running enabel-* services
BT	Bluetooth (short-range pairing bearer)
DDRR	Device-Driven Rapid Resilience (the UAT framework)
Ed25519	elliptic curve signature scheme used for device + chunk attestation
LoRa	long-range low-power RF; transports Reticulum control
LXMF	Lightweight Messaging Format for Reticulum
MaaS360	MDM platform integration
Merkle root	daily roll-up of proof chain heads, anchored by uploader
NomadNet	Reticulum-native page / messaging app
PACE+	Primary/Alternate/Contingency/Emergency routing strategy
PHONE-A1/A2/B1/C1	local (A) vs remote (B/C) tester phone slots
RNode	open hardware LoRa radio / RNS interface
RNS / Reticulum	trustless, peer-to-peer mesh routing fabric
Sat hybrid	Starlink (data) + Iridium (control) dual sat path
Sentinel	body-worn sealed evidence capture (surrogate today, real in Sprint 3)
StrongBox / Keymaster	Android TEE for key generation and signing
Tower	Jetson AGX cell-offload + edge compute node
VMR	Virtual Mesh Routing (transport layer)

Proof ID index

020 through 096 plus Samsung sub-ids

RANGE	SCOPE	REFERENCE
020-027	Sprint 1 - HomePod Anchor baseline	page 4-5
028-033	Sprint 2 - phone register / chat / voice / video	page 6
034-037	Sprint 2 - Sentinel surrogate chain	page 6
037a-f	Samsung-as-Sentinel track (S2)	page 6
038-047	Sprint 2 - remote testers + node token + RNode link	page 7
048-054	Sprint 2 - 5-device federated cell + regression gate	page 7
055-058	Sprint 3 - Mobifon APN bring-up	page 9
059-064	Sprint 3 - Tower node Jetson	page 9
065-070	Sprint 3 - Sat hybrid	page 10
071-076	Sprint 3 - Real Sentinel body-worn	page 10
071a-c	Samsung cutover to real Sentinel (S3)	page 10
077-080	Sprint 3 - cross-cell federation	page 11
081-088	Sprint 4 - Gateway Pro envelopes (design)	page 13
089-096	Sprint 4 - field tester + wireless delivery (design)	page 14

HOW TO REGENERATE THIS DOCUMENT

```
python scripts/decks/build_master_sprint_bible.py
(re-run at the close of every sprint; version stamp in header changes automatically)
```