



The Integrations Paper

Every way to build on TELRPC

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This paper specifies every way to build on TELRPC. It is written for the wallet team deciding how deep to integrate, in an app or in hardware, and for the institution or software company deciding where the rail sits in its stack.

Part A specifies the four integration types end to end: who each suits, what you build, what TELRPC supplies, how the data flows, the security properties, the engagement and the commercial terms. Part B draws the seven deployment shapes: which device signs, which device places the call, and how the signed bytes pass between them. A decision guide, the shared properties, the engagement, the proof and a glossary close the paper.

Every type and every shape carries one of two labels. **Available now** is in production today. **Built with you** is an engineering engagement we run with your team; it becomes a product when that engagement delivers it, and this paper never presents it as one before then.

4 integration types: EMBED, NATIVE, LABEL, GRID	7 deployment shapes, from the user's phone to a private trunk	93 countries with local grid numbers available (17 live in 15 countries today), on carrier infrastructure Minutes Network operates	~95 s of tones for a USDC transfer on Base; about two minutes from call to confirmation
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TELRPC in one paragraph

A blockchain transaction is valid because of its signed bytes, not because of the channel that carries it. TELRPC carries those bytes over an ordinary telephone call. The device that places the call keys the signed transaction as tones; the TELRPC Grid decodes it, checks it and broadcasts the exact bytes to the chain; then the grid calls the device back and carries a confirmation in the caller ID of a call the device silently declines. The grid holds no key that can move user funds and deploys no contract on any chain. The signer can be the TELRPC Wallet, or anything you already run: a hardware wallet, an HSM, an MPC quorum, a multisig. TELRPC need not be the signer, only the rail that carries a finished transaction to the chain and returns the state the next send needs.

The product line

TELRPC Grid

The network. Local numbers available in 93 countries (17 live in 15 countries today, more added on demand) on carrier infrastructure Minutes Network operates, the collectors that decode the call, a broadcaster per chain, and the echo return channel. Holds no key that can move user funds: its only keys are an operational Solana co-signer, limited to one fixed setup template, and a small fee-payer for setup slots. Metered per call request.

TELRPC Wallet

Our Android wallet, in production, with no internet permission. The first device on the rail, the one an auditor verifies today, and the base of every whitelabel build.

TELRPC INSIDE

The certification mark for any product built on the rail. Earned in the pilot, carried at launch.

Reference implementation

The TELRPC Wallet's frame, state and echo code, licensed as source: it frames a signed transaction, keys the tones, handles the checksum and automatic resend, reads state by QR or echo, and verifies the confirmation echo. Android today; the same frame logic ports to firmware and servers under licence.

TELRPC Console and API

The partner and institution portal and a keyed JSON API: clients and addresses, packages and usage, treasury allowlists, team seats, the audit log and CSV export.

The papers

The TRP/1 specification, the whitepaper and the reference source, shared with partners under licence and NDA as part of an integration.

Part A. The integration types, specified

Four commercial models put the rail into a product. They differ in who writes the code that places the call and who owns the product the user sees. They share the grid, the protocol, the echo and the console. Each can be combined with the others across a product line.

The common flow

Every type runs the same six steps. The specifications below say who performs each step in that type.



01 Sign	The signer produces a complete signed transaction and computes its transaction id. No TELRPC component holds or sees a user's key. Chains that need live state to build a transaction (a nonce, a sequence, unspent outputs, a durable nonce) receive it first, offline, by a scanned QR or by the echo; for the EVM family, also by a spoken readback on a call or by typing nonce and gas by hand.
02 Hand-off	The signed bytes reach the device that places the call. Inside one app there is no hand-off. Between two devices it is a QR read by a camera, or a one-way link. The bytes carry no key.
03 Call	The carrying device calls a local grid number from the dial plan and keys the signed transaction as one checksummed frame of tones. A USDC transfer on Base is about 95 seconds of tones.
04 Decode	A grid collector rebuilds the frame and verifies the checksum. A frame with a lost tone, or a call that drops, fails the check and nothing is broadcast. The grid hangs up quietly and signals a resend by echo; the device redials the same signed transaction by itself, so it can only ever land once.
05 Broadcast	The grid broadcasts the exact bytes to the chain. For an institution, broadcasts from the treasury addresses on its allowlist are counted against its committed-capacity term. Every send is self-gassed: the account pays its own network fee.
06 Echo	The grid calls the originating line back and carries a reference to the transaction id in the caller ID of a call the device declines without ringing. The device matches it to the id it computed at signing; only a match moves its sequence forward. Call to confirmation is about two minutes. If the device's sequence is out of step, the grid echoes the chain's real value and the device corrects itself.

A1

EMBED: the rail inside your app

■ Available now · Android

What it is	TELRPC's rail inside an app you already ship, built from the reference implementation licensed as source. It signs on the device, or carries a transaction your own signer made, and handles everything between the signed bytes and the confirmation: framing, tones, checksum, automatic resend, state by QR or echo, and the confirmation match.
Who it suits	Consumer wallet apps. The companion app of a hardware wallet. An exchange's own consumer wallet. Payments apps that want sends to work with no data plan.
What you build	Your interface around the reference code: frame a signed transaction, place the call, read state by QR or echo, and match the confirmation. Your onboarding and your brand. The hand-off from your own signer, where your app is not the signer.
TELRPC supplies	The reference implementation under licence, as source. The TRP/1 specification and the whitepaper under NDA. Grid access on local numbers, the partner Console and a partner API key. Engineering support from scope to launch. Certification under TELRPC INSIDE.

Data flow	1. Sign: on the device, or your signer's bytes passed in. The id is computed locally. 2. Hand-off: none inside the app; an external signer's transaction is imported by QR or passed in by your code. 3. Call: the app picks a grid number, places the call on the phone's voice line and keys the frame. 4. Decode: the grid checks the frame; on a failed check the app redials the same transaction by itself. 5. Broadcast: the grid broadcasts the exact bytes. 6. Echo: on Android 10 and later the confirmation arrives through the call-screening role; the app matches it to the id it computed and shows the status.
Security properties	The rail asks the host app for two capabilities: placing a call and, for QR, the camera. The call-screening role grants no network access and reads only an incoming caller ID. The rail code opens no socket for any step. A host app built with no internet permission inherits the one-command proof the TELRPC Wallet carries; a host app that keeps an internet permission keeps the rail's properties but not that proof. The grid can carry or refuse the transaction, never alter or redirect it: a changed byte fails the signature or the checksum.
Effort and engagement	Typical integration is weeks of your team's time, not quarters. Scope under NDA, a pilot in one market on the live grid, certification, launch.
Commercial shape	Wholesale pricing per broadcast on volume terms by agreement, an annual platform licence, and coverage tiers that decide which markets are a local call for your users. Your own resale price sits on top; the Console shows owed, resold, platform share and net. Monthly invoice. Users pay 10 cents of prepaid credit per call request; a send is never charged a percentage. Every fee is shown on the review before a swap.

A2

NATIVE: inside your hardware

□ Built with you · both variants

What it is	The TELRPC frame logic ported to your firmware under licence. The device signs, frames its own transaction and carries it to a call, with no companion app in the loop. Two variants. N1, own audio path: the device keys the tones through its own speaker into any phone held to it, or through a headset jack. N2, own cellular module: a device variant with a cellular voice module and a SIM or eSIM places the call itself, with no phone at all.
Who it suits	Hardware-wallet makers who want the offline experience to be a property of the device rather than of the customer's phone. Makers of signing appliances.
What you build	The signing hook in your firmware, the audio output path (N1) or the voice module and SIM slot (N2), the on-device user flow and the industrial design. Where the device has a camera, it reads the state QR itself.
TELRPC supplies	The frame logic for your firmware under licence, the TRP/1 specification and reference vectors under NDA, engineers alongside your hardware team, a joint engineering review of the audio or radio path, numbers on the Grid, and certification under TELRPC INSIDE.

Data flow, N1	1. Sign: the device signs and computes the id. 2. Hand-off: sound. Any phone places an ordinary call to a grid number and is held to the device, or the device is connected by headset jack. 3. Call: the device keys the frame; the phone is only a handset on the call. 4. Decode: as in the common flow. 5. Broadcast: as in the common flow. 6. Echo: the confirmation returns to the line that placed the call. How the device reads it is settled in the engagement.
Data flow, N2	1. Sign: the device signs and computes the id. 2. Hand-off: none; the bytes stay inside the device. 3. Call: the device's voice module dials a grid number and keys the frame. 4. Decode: as in the common flow. 5. Broadcast: as in the common flow. 6. Echo: the confirmation arrives on the device's own line; the device reads the caller ID and matches the id itself.
Security properties	N1: the device has no network interface at all, so there is nothing for an operating system to permit or deny. The phone carries sound on a call; it never holds the key or takes part in signing. N2: the device carries a radio for voice calls. The design places voice calls and reads incoming caller IDs and opens no data session; the joint review verifies this before certification. In both, the grid can carry or refuse, never alter or redirect.
Effort and engagement	A hardware programme run with your team: design review, firmware port against the reference vectors, joint review of the audio or radio path, conformance testing, certification. Its length follows your device programme. Your customers finish the air gap on the companion-phone shape (shape 02, available now) while the native build runs.
Commercial shape	An annual platform licence and wholesale pricing per broadcast, with your own resale price on top. Engineering engagement terms agreed in scope. The TELRPC INSIDE mark on the box.

A3

LABEL: your brand, our build

■ Available now · Android

What it is	A whitelabel build of the TELRPC Wallet under your brand, owned by you, engineered and operated on the grid by the team that built the TELRPC Wallet.
Who it suits	A hardware-wallet maker that wants a companion app without building one. A payments app or an institution that wants its own branded wallet. Any partner whose fastest route is a product rather than an integration.
What you build	No code. You supply brand assets, store accounts and product decisions.
TELRPC supplies	The app, the grid connection, the receipts, the updates, the audit trail and the Console. The full wallet breadth: native and token sends, token swaps on nine networks, smart-contract calls, hardware wallets, and carrying a transaction signed elsewhere.

Data flow	As the TELRPC Wallet in production: the phone signs, or imports a transaction signed elsewhere by QR ("Carry a signed transaction"); the phone places the call; the grid decodes and broadcasts; the echo confirms on the phone.
Security properties	The same manifest as the TELRPC Wallet: CALL_PHONE, ANSWER_PHONE_CALLS, CAMERA and USE_BIOMETRIC, and no INTERNET, verifiable with one command (<code>aapt dump permissions</code>). Keys are born on the device and never leave it; there is no server copy, no account and no recovery desk.
Effort and engagement	The lightest for your engineers: the build is ours. Scope, a branded pilot in one market, certification, store launch.
Commercial shape	A one-time engineering fee (NRE) for the whitelabel build, then wholesale pricing per broadcast.

A4 GRID: pure rail access

■ Available now

What it is	Keyed access to the TELRPC Grid. You build everything above the wire; we run the voice grid, the collectors, the broadcasters and the echo.
Who it suits	Software companies, custodians, payment firms and institutions that run their own build, and any partner that wants the grid's records inside its own systems.
What you build	The device or service that places the call, using the reference implementation or the protocol under licence, and the systems that read the API: provisioning, reconciliation, billing, monitoring.
TELRPC supplies	The grid, the dial plan, the keyed JSON API, the Console, and the TRP/1 specification and reference source under licence and NDA.
Data flow	The common flow, with the API alongside it: register the addresses you serve, so their broadcasts are attributed to your account; place calls from the dial plan; read every broadcast back with its chain, transaction id and on-chain status.
Security properties	The API holds no key and signs nothing; it reports what the grid has done and what it is set to do. No key material of your users ever appears in it. The key is issued in the Console and shown once.
Effort and engagement	Plain JSON requests with a key for your systems; the call path follows the effort of the reference-code or protocol work you choose. Scope, pilot, certify, launch.
Commercial shape	Metered per broadcast, on wholesale terms agreed by volume. Monthly invoice.

For integrators: the GRID API

Software companies, custodians and payment firms building on the grid work through one keyed interface. Every request is plain JSON authorised by a key issued in the TELRPC Console and shown once.

Route	What it gives your systems
Dial plan	The numbers provisioned in the dial plan per market, for your devices to call.
Wallet registration	Registers an address you serve, so its broadcasts are attributed to your account for metering and receipts.
Broadcasts	The broadcasts on your account, each with its chain, transaction id and on-chain status, for receipts and reconciliation.
Fees	The fee schedule configured for your account.
Grid status	A health read of the grid and its broadcast path, for your own monitoring and status pages.
Clients	Your end-clients, provisioned and listed programmatically with your partner key, so onboarding runs from your own systems.
Client addresses	The wallet addresses under each end-client, so every broadcast lands on the right client.
Usage	Usage per end-client, for your own billing and resale.

Metering

Every broadcast is metered on the account that registered its address. The partner Console shows per-client usage and the wholesale and resale view: owed, resold, platform share and net, on named packages.

Institution console

A committed-capacity term on a named package (Treasury Core, Plus, Max or custom); the treasury addresses whose broadcasts count against the term (the allowlist); a register of team seats, each with a recorded role (admin, operator or viewer), with Console sign-in today one login per account; usage against committed capacity; a time-ordered audit log of every change and every broadcast.

Export

CSV export of any period from the Console. Institutions also export the audit log and the capacity statement as CSV.

Service levels

The SLA view carries a 99.9% uptime SLA, a 99.0% frame-acceptance target and a 4-hour priority response.

The commercial models side by side

Type	You build	We build	Commercial shape	Status
EMBED	Your app around the reference code	Reference source, grid, console	Wholesale per broadcast by agreement, annual platform licence, coverage tiers	Available now
NATIVE	Device, firmware hook, audio or radio path	Firmware frame logic, vectors, review, grid	Platform licence and wholesale per broadcast; engagement terms in scope	Built with you
LABEL	Brand assets, store accounts	The whole app, operated	One-time engineering fee (NRE), then wholesale per broadcast	Available now

Type	You build	We build	Commercial shape	Status
GRID	Everything above the wire	Grid, API, console	Metered per broadcast, wholesale by agreement	Available now
Institutions	Signing, as today	Handset app, grid, console	Committed-capacity term; per-seat and per-broadcast fees; dedicated-line rental	Available now

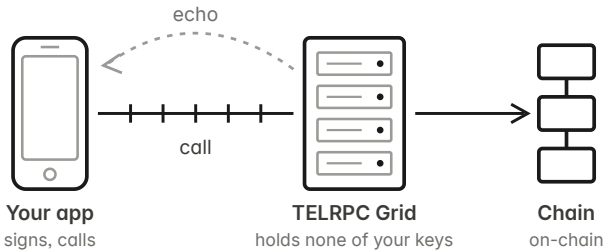
The public price is one number: every call request is 10 cents of prepaid credit, charged only when it succeeds (a broadcast, a sync or balance read by call, a swap price check, a swap, a token approval, a contract read), with no pack discounts. Partners buy wholesale and institutions take committed-capacity terms, both agreed by volume and settled by monthly invoice. TELRPC deploys no contract on any chain. A send is never charged a percentage, and every fee is shown on the review before a swap. Certification under TELRPC INSIDE comes with every model.

Part B. The deployment shapes

A commercial model says who builds what. A deployment shape says where the rail physically sits: which device holds the key and signs, which device places the call, how the signed bytes pass between them, and what TELRPC supplies. In every drawing the right-hand side is the same: an ordinary call to the grid, a broadcast to the chain, and the dashed confirmation echo back to the device that called.

01

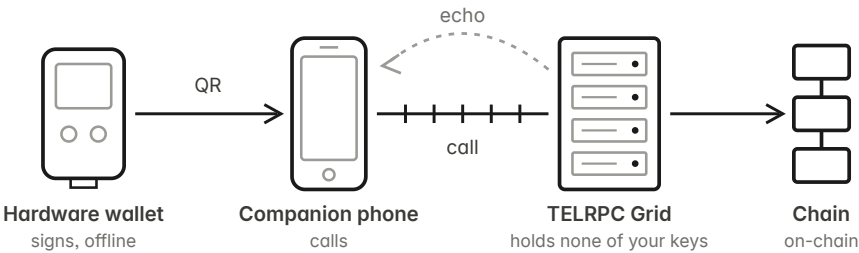
In your app, on the user's phone
■ Available now · EMBED or LABEL



Signs	The phone, inside your app; or your app receives a transaction your own signer already made.
Places the call	The same phone, on its ordinary voice line.
Hand-off	None. The signed bytes stay inside the app until they leave as tones.
TELRPC supplies	The reference implementation under licence (EMBED) or a whitelabel build of the TELRPC Wallet (LABEL), with the Grid and the Console. The TELRPC Wallet runs this shape in production.

02

A companion phone for an air-gapped signer
■ Available now (QR) · Built with you (USB, Bluetooth, NFC)



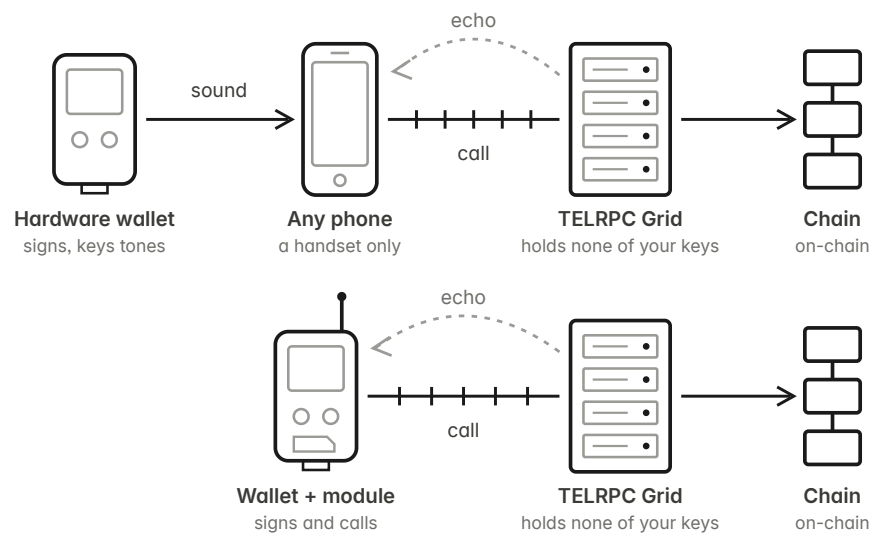
Signs	Your hardware wallet, exactly as it does today. It never touches a network.
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Places the call	A companion phone running the TELRPC Wallet, a whitelabel build, or your own app built on the reference code.
Hand-off	QR by camera, live in the TELRPC Wallet as "Carry a signed transaction". USB, Bluetooth and NFC transports are built with you.
TELRPC supplies	The companion app or the reference code, the Grid, and the state for the next send by QR or echo.

03

Inside the hardware wallet

▣ Built with you · NATIVE

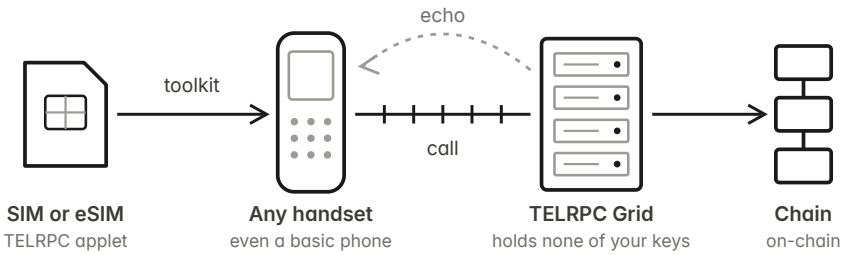


Signs	The hardware wallet.
Places the call	Variant a (top): any phone held to the device, or a headset jack, with the device keying the tones through its own audio path. Variant b (bottom): the device itself, through its own cellular voice module and SIM or eSIM, with no phone at all.
Hand-off	Sound into a phone, or none: in variant b the signed bytes leave the device only as tones on its own line.
TELRPC supplies	The frame logic for firmware under licence, reference vectors, engineers alongside your hardware team, numbers on the Grid, and certification under TELRPC INSIDE.

04

On the SIM or eSIM

□ Built with you · with a mobile-operator partner

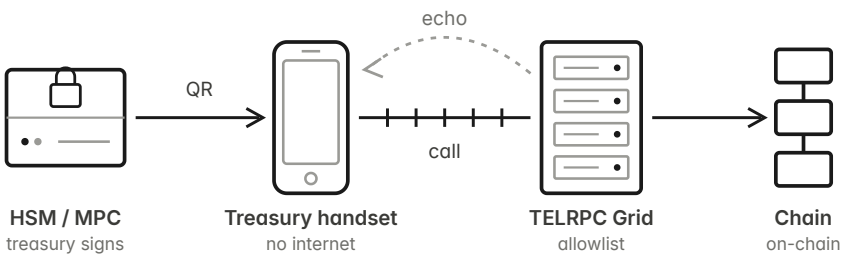


Signs	Your wallet or signer. The SIM is already a secure element in every phone and every cellular module.
Places the call	Any handset holding the SIM, even a basic phone. Standard SIM toolkit commands let a SIM place a call and send tones.
Hand-off	Inside the handset, to a SIM-resident TELRPC applet that carries the frame.
TELRPC supplies	The applet, engineered with you and issued with a mobile-operator partner, and the Grid. Minutes Network is a carrier business, which is why this door exists. The applet is the deliverable of the engagement.

05

An institution's dedicated handsets

■ Available now · institutions

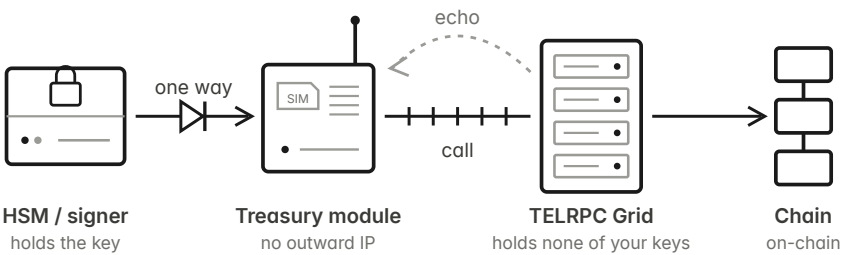


Signs	The treasury's signing system: HSM, MPC or multisig, under the approval policy it runs today.
Places the call	A small fleet of locked-down handsets running the TELRPC Wallet with no internet permission, kept in the treasury room; the treasury addresses they carry are enrolled on the institution's Console.
Hand-off	QR, from the signing system's screen to the handset's camera. Nothing on the handset can write back to the signer.
TELRPC supplies	The handset app, the Grid, and the Console: an allowlist of the treasury addresses whose broadcasts count against the term, a register of team seats with recorded roles, and an audit log with CSV export.

06

A treasury module in the vault or data centre

□ Built with you · institutions

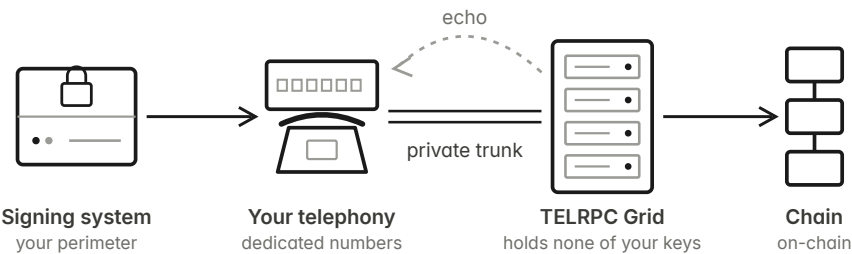


Signs	Your HSM or signing server.
Places the call	A purpose-built appliance: a cellular voice module with a SIM, or an analogue or private line, running our firmware. No IP stack faces outward.
Hand-off	A one-way input from the signing system: a data diode, a serial link or a QR.
TELRPC supplies	The appliance design and its firmware, numbers on the Grid, and the confirmation echo returned to the module.

07

A private trunk for the data centre

□ Built with you · institutions



Signs	Your signing system.
Places the call	The telephony your desk already runs.
Hand-off	From your signing system to your telephony, inside your own perimeter.
TELRPC supplies	A dedicated private trunk on Minutes Network's carrier estate into the Grid, with dedicated numbers, so the call never crosses the public internet.

Shapes and types at a glance

Shape	Signs	Places the call	Type	Status
01 User's phone	Phone or your signer	The same phone	EMBED, LABEL	Available now
02 Companion phone	Hardware wallet	A phone	EMBED, LABEL	Available now (QR)
03 Inside the wallet	Hardware wallet	Any phone, or the device	NATIVE	Built with you
04 SIM or eSIM	Your signer	Any handset	NATIVE, with an operator	Built with you
05 Dedicated handsets	HSM, MPC, multisig	Locked-down handset	Institutions, GRID	Available now
06 Treasury module	HSM or signing server	The module	Institutions	Built with you
07 Private trunk	Your signing system	Your telephony	Institutions	Built with you

Decision guide

If you are	Start with	Then
A consumer wallet app	EMBED in your app (shape 01). Available now.	LABEL for a second brand or market, with no extra engineering of yours.
A hardware-wallet maker	The companion phone by QR (shape 02), through EMBED in your companion app or a LABEL build. Available now.	NATIVE inside the device (shape 03) or the SIM door (shape 04), built with you, while customers already send on shape 02.
An exchange	Dedicated handsets for cold-side withdrawals and treasury rebalancing (shape 05), and EMBED in your consumer wallet app (shape 01). Available now.	A treasury module (shape 06) or a private trunk (shape 07) inside the data centre, built with you.
A custodian or bank	Dedicated handsets (shape 05) with the allowlist, seats and audit export, alongside your security review. Available now.	A treasury module with a one-way input from the HSM (shape 06), built with you.
A fund or corporate treasury	Dedicated handsets (shape 05) on a named Treasury package, with the capacity statement for finance. Available now.	A private trunk (shape 07) where the desk already runs telephony.
A payments app	EMBED or LABEL on the user's phone (shape 01), with the GRID API for client provisioning and reconciliation. Available now.	Coverage tiers matched to the markets you serve.
A software company or integrator	GRID: the keyed API and the reference code or protocol under licence. Available now.	Any shape your customers need, run as a joint engagement.

What every integration shares

The same signed bytes

Every shape carries exactly the bytes your signer produced. A transaction is valid by its bytes, not its channel, so nothing about how you sign changes.

Self-healing redial

A lost tone or a dropped call fails the checksum and nothing is broadcast. The grid signals a resend and the device redials the same transaction, so it can only ever land once.

No contract, self-gassed

TELRPC deploys nothing on any chain. Every send pays its own network fee from its own account, so there is no relayer, no sponsor and nothing of ours to approve.

The echo: sync, balance, confirmation

The grid calls the device straight back and carries the answer in the caller ID of a call the device declines without ringing: the account's sequence and fee level, the balance, and after a broadcast a reference to the transaction id, matched against the id computed at signing.

A grid with none of your keys

The grid can carry or refuse a transaction, never alter or redirect it: a changed byte fails the signature or the checksum. The worst a compromised line can do is cause a delay, never a loss.

An audit trail

Every broadcast is recorded with its chain, transaction id and on-chain status and exports from the Console as CSV; institutions add a time-ordered log of every change.

Sends cover native coins and the 144 verified tokens and smart-contract calls across 36 EVM networks (among them Ethereum, Base, Arbitrum, Optimism, Polygon, BNB Chain, Avalanche and World Mobile Chain), and Bitcoin, Solana, Litecoin, Dogecoin, XRP, Tron and Cardano; token swaps run through Uniswap on nine of the EVM networks. Every one is signed offline and broadcast over the call.

The engagement

Step	What happens	Who
Scope	Under NDA, your security team receives the whitepaper, the threat model and the TRP/1 specification, with the reference source under licence. We answer everything, then agree the type, the shape and the markets.	Both
Pilot	One market on the live grid, your build or ours. Your team signs, places the call to an address it names on the spot, and watches the confirmation echo arrive with no internet in the room.	Both
Certify	Protocol conformance against the reference vectors, the TELRPC INSIDE mark, and terms in writing.	TELRPC
Launch	A rollout that follows your calendar, with our engineers on the line and capacity added ahead of your volume.	Both

A Built with you shape runs the same four steps, with a design review and joint engineering inside Scope and Pilot. Every engagement starts on a shape that is available now, so your users send while the deeper integration is built.

The proof

A phone with no internet access sends real USDC on Base, each transaction over an ordinary call. A call that arrives garbled on the line recovers by itself through the self-healing redial, and nobody touches the phone. On 11 October 2026, for example, one USDC on Base left a phone with no internet permission over an ordinary call and confirmed in block 52,460,479 (0x54cc6ddc...78b1a7), public on any Base explorer.

0	4	~95 s	~2 min
bytes of internet data on the device	app permissions, none of which can open a network connection	of tones per USDC transfer on Base	from call to confirmation

Glossary

Term	Meaning
Allowlist	The treasury addresses an institution enrolls; their broadcasts count against its committed-capacity term.
Available now	In production today.
Broadcast	Submitting the exact signed bytes to the chain. The unit TELRPC meters and prices.
Built with you	An engineering engagement TELRPC runs with a partner's team, from design review to certification. Not a shipping product.
Call-screening role	An Android role (Android 10 and later) that lets an app read an incoming caller ID and decline the call. It grants no network access.
Carrying device	The device that places the call: a phone, a handset, a module, a SIM in a handset, or your telephony. It holds signed bytes, never a key.
Dial plan	The local grid numbers per market.
Echo	The grid's return channel: a call back to the originating line carrying a short value in the caller ID, declined without ringing. It delivers sync, balance, confirmation, resend, sequence correction, no-credit and maintenance notices, and swap results.
Confirmation echo	The echo after a broadcast, carrying a reference to the transaction id; only a match with the id computed at signing moves the device forward.
Hand-off	How signed bytes pass from the signer to the carrying device: none, QR, or a one-way link.
Self-gassed	The sending account pays its own network fee in the chain's native coin. TELRPC sponsors no transaction.
Self-healing redial	A frame that fails its checksum is never broadcast; the device redials the same signed transaction by itself.

Term	Meaning
State sync	Delivering the live values a send is built from (nonce, sequence, unspent outputs, durable nonce) offline, by QR or echo, and for the EVM family also by spoken readback or typing.
TELRPC INSIDE	The certification mark for a product built on the rail.
TRP/1	The TELRPC wire protocol. Its specification is shared with partners under licence and NDA.

Contact us at contact@telrpc.com. Tell us the device that holds your key, the device you want to place the call, and the markets you serve. We reply with the shape, the terms and a live call on the grid.

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TEL RPC

The rails that never go online.

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