

BLOG 6 — AckPay: Confirmation-Based Crypto Payments

Category: Technical Papers

Length: ~600 words

Crypto Payments Finalize Too Fast — And That's the Problem

Traditional crypto transfers settle instantly.

This sounds great — until you realize instant finality creates massive risk:

- You send money to the wrong merchant
- The service wasn't delivered
- The seller disappears
- You pay for something that never arrives
- Scammers force you to “pay first”
- Freelancers don't get milestone clarity

In the real world, **payments need confirmation**, not blind trust.

Every modern system — Apple Pay, Stripe, DoorDash, Uber, Fiverr — has one rule:

A payment isn't fully complete until the receiver acknowledges it.

Crypto never had this logic.

Until now.

Introducing AckPay — Payments Finalize *Only When the Receiver Accepts*

AckPay brings the missing settlement layer crypto has lacked since day one.

It introduces a simple, powerful rule:

Funds are “pending” until the receiver confirms the payment.

If they don't accept it → the funds automatically refund to the sender.

This protects the sender from:

- scams
- failed deliveries

- dishonest merchants
- unresponsive freelancers
- incomplete services
- accidental payments

AckPay replaces blind transfers with **accountable settlement**.

How AckPay Works

AckPay is built around a secure, two-phase payment flow:

1 Sender Initiates Payment

The payment enters a **pending vault state** — protected but not finalized.

No risk.

No exposure.

No “one mistake and it’s gone forever.”

2 Receiver Must Press “Accept”

Only the intended receiver can finalize the payment.

If they:

- delivered the work
- completed the service
- shipped the item
- confirmed correctness

...they simply press **Accept**.

This is instant — and they have every incentive to accept legitimate payments.

3 If the Receiver Fails to Accept → Auto-Refund

If the receiver:

- ignores
- disappears
- cancels
- tries to cheat
- doesn't deliver
- fails a condition
- or time expires

The payment is **automatically refunded in full** to the sender.

No support tickets.

No disputes.

No admin intervention.

Pure, rule-based safety.

This Is Not “Holding Funds” — It’s Commercial Logic

AckPay introduces native settlement semantics that every commerce system relies on:

- **buyer protection**
- **merchant accountability**
- **service verification**
- **delivery confirmation**
- **conditional settlement**

This is the backbone of:

- e-commerce
- gig-work platforms
- subscription models
- digital services
- peer-to-peer marketplaces

- agency workflows
- cross-border remittances

Crypto just never had it — because no one built it.

AckPay + APP Escrow = Complete Commercial Settlement

AckPay works seamlessly with APP Escrow:

- Escrow controls *how* funds behave (milestones, refunds, workflows).
- AckPay controls *when* funds finalize.

Together:

Payments become structured workflows with confirmation-based finality.

Nothing like this exists in the blockchain industry today.

SDK: Developers Can Add AckPay in Minutes

Dendrites makes AckPay simple for developers.

Via the SDK, developers can integrate AckPay like:

```
await dendrites.ackPay.create({  
  to: receiverAddress,  
  amount: "150 USDC",  
  timeout: 180,    // seconds  
});
```

And for the receiver:

```
await dendrites.ackPay.accept(requestId);
```

If the receiver fails to accept in time:

```
await dendrites.ackPay.autoRefund(requestId);
```

No Solidity.

No custom contract deployment.

No settlement headaches.

The protocol handles the logic.

The SDK handles the integration.

Developers get enterprise-grade payment flows instantly.

Why AckPay Is a Breakthrough

◆ Protects the sender completely

No more blind transfers.

◆ Ensures the receiver must confirm delivery

No ambiguity.

◆ Eliminates scams and fake merchants

They can't drain funds without acknowledging the payment.

◆ Powers real-world commerce

Delivery apps → Confirm

Freelancers → Accept

Merchants → Approve

Subscriptions → Auto-accept or expire

AckPay gives crypto **the missing confirmation layer**.

****Closing:**

Crypto Payments Should Be Safe — Not Blind.**

AckPay transforms blockchain settlement from:

✗ “Hope the receiver is honest”
into

✓ “Funds finalize only when the receiver accepts.”

This gives crypto:

- accountability
- protection
- reliability

- commercial structure
- real-world usability

For the first time ever, blockchain payments have a **confirmation layer** — the same layer that powers every trusted payment network in the world.

This is how commerce should work.

And now, finally, it does.