

Bazaars

A Peer-to-Peer Commerce Protocol

Powered by BZR and the ORC-55 Token Standard

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1. Introduction --- From E-Commerce to Cryptocommerce

Traditional e-commerce platforms have powered global trade for two decades --- but at a cost. Every interaction passes through centralized intermediaries who charge high fees, control listings, delay settlements, and store sensitive data.

In cryptocommerce, trust is encoded rather than outsourced. Buyers and sellers transact directly using smart contracts that hold and release value automatically when pre-agreed conditions are met.

The shift is both technical and philosophical:

- From corporate trust to mathematical trust
- From platform-hosted listings to protocol-verified interactions
- From ownership by intermediaries to ownership by users

Comparison: Traditional E-Commerce vs. Cryptocommerce

Traditional E-Commerce	Cryptocommerce
Centralized marketplaces	Peer-to-peer protocol
10--30% transaction fees	<1% smart-contract fee
Payment delays, chargebacks	Instant, irreversible settlement
Custodial data storage	IPFS-based decentralized records
Risk of censorship or delisting	Permissionless participation

Table 1: Key differences between traditional and decentralized commerce models

Result: Cryptocommerce is not merely cheaper --- it is structurally fairer.

2. The Problem

Modern commerce relies on intermediaries that:

- Custody user funds
- Control listings and visibility
- Extract excessive fees
- Enforce mutable and opaque rules

Failure or intervention at the platform level propagates directly to users.

Blockchain marketplaces attempted to solve this but introduced new structural risks:

- Dependence on a single blockchain
- Bridge and wrapper vulnerabilities
- Inflatable or upgradeable tokens
- Governance attack surfaces

In both systems, the failure mode is identical:

When the platform or chain fails, the participant fails with it.

This dependency is unnecessary.

3. Design Principles

Bazaars is built on the following principles:

1. No Custody --- Funds are never controlled by the platform
2. Deterministic Settlement --- Rules execute, not people
3. Decentralized Data --- Listings are not platform-hosted
4. Asset Sovereignty --- Tokens must survive infrastructure failure
5. Optional Compliance --- Regulation is layered, not embedded
6. On-Chain Verification --- KYC and eligibility can be cryptographically proven without sharing personal data

Systems designed to tolerate failure outlast those that assume stability.

4. The Bazaars Protocol

Bazaars enables direct trade between buyers and sellers using smart escrow as the trust layer.

Transaction Flow

1. Seller publishes a listing
2. Buyer commits funds to smart escrow
3. Conditions are fulfilled or expire
4. Funds are released or refunded automatically

No discretionary intervention is possible once conditions are set.

Trust is replaced with pre-agreed logic.

5. Decentralized Listings & IPFS

Product data and metadata are stored using decentralized, content-addressed storage via IPFS.

This ensures:

- Censorship resistance
- Platform neutrality
- Persistence independent of any single operator
- Verifiable and immutable product data

Each listing, proof of delivery, or transaction record is assigned a unique cryptographic hash on IPFS. The hash is referenced in ORC-55 smart contracts, permanently linking commercial actions to verifiable, tamper-proof evidence.

Example

A seller publishes a physical or digital product on IPFS. The generated hash is embedded into the smart contract. Any participant can later verify the listing, images, and proof of delivery remain authentic and unchanged.

6. Identity & On-Chain KYC

Bazaars supports optional on-chain KYC for regulated or institutional participants:

- Verification occurs off-chain using privacy-preserving zero-knowledge proofs
- Only eligibility proofs are stored on-chain
- Personal data is never exposed or stored by the protocol

This allows coexistence of permissionless markets with regulatory-compliant participants while preserving user privacy.

7. Smart Escrow

Smart escrow replaces intermediaries with automated, deterministic contracts:

- Funds are held in escrow by the smart contract
- Release or refund occurs automatically based on predefined conditions
- Escrow rules are immutable and cannot be overridden

Smart escrow ensures:

- Trustless settlements

- Instant finality
- Transparent execution
- Risk mitigation for both buyers and sellers

8. The Asset Problem

Most digital assets inherit the risk of their host blockchain:

- Fee spikes degrade usability
- Governance failures affect monetary policy
- Chain failure invalidates the asset

Migration fragments liquidity and trust.

This coupling is artificial.

9. ORC-55 Token Standard

The ORC-55 Standard redefines what a smart contract can guarantee. It is zero-admin, race-conditionless, and contractually final --- ensuring no centralized control, no transaction conflicts, and no reversal once confirmed.

Core Principles

1. Zero-Admin
2. Race-Conditionless
3. Contractually Final
4. Deflationary by Design
5. Multi-Chain Interoperability

ORC-55 Structural Layers

Application Layer: Bazaars Marketplace (Commerce, Affiliates, APIs, DEX Bridges)
Protocol Layer: ORC-55 Smart Contracts (Zero-Admin, Final, Deflationary)
Infrastructure: Multi-Chain Interoperability (EVM, ZK, Rollups, Non-EVM Bridges)

Table 2: Three-layer architecture of the ORC-55 standard and Bazaars ecosystem

10. BZR Token

BZR is the native settlement asset of the Bazaars ecosystem and the first live ORC-55 implementation.

Characteristics

- Immutable
- Deflationary
- Multi-chain single identity
- Non-governed
- Exchange-grade

BZR was deployed simultaneously across ten major blockchains at inception for survivability.

Utility

- Marketplace settlement
 - Smart escrow collateral
 - Fee payments
 - Ecosystem incentives
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11. Asset-Centric Architecture

ORC-55 reverses the historical dependency between chains and assets:

- Assets become the stable layer
- Blockchains compete as execution environments
- Liquidity follows reliability and performance

Exchanges list identities, not infrastructures. Users follow predictability.

12. Security Model

The security model prioritizes immutability and decentralization:

- Immutable contracts
- No privileged accounts
- No external calls in token logic
- No bridges or wrapped assets

- Multi-chain survivability
 - On-chain KYC proofs are cryptographically verifiable
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13. Governance Philosophy

Bazaars minimizes governance at the asset and protocol level.

- Rules are encoded, not voted on
 - Discretion is reduced, not redistributed
 - Change occurs through adoption, not control
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14. Conclusion

Bazaars removes intermediaries from commerce.

ORC-55 decouples assets from infrastructure.

BZR demonstrates multi-chain, immutable settlement in production.

This is a commitment to rules over trust, assets over infrastructure, and systems designed to endure failure.

It is a vision for commerce that is resilient, decentralized, and permissionless.