

\$402 PROTOCOL SPECIFICATION

| Tokenized Attention Economy with Social Scaling

Version: 3.0.0 **Status:** Living Document **Reference Implementation:** [PATH402.com](https://path402.com)

OVERVIEW

\$402 is a protocol for tokenized attention markets. Every participant mints their own token, creating a market for their time and content. The network scales socially through genuine relationships, not viral mechanics.

The Progression:

1. **Content Tokenization** (v1-v2): Turn URL paths into shareholder businesses
2. **Personal Tokenization** (v3): Turn individuals into attention markets

CORE PRINCIPLES

1. **Everyone has a token** - Your token is your attention market
 2. **Fixed supply** - 1 billion tokens per person (no minting/burning)
 3. **Time-based access** - Tokens purchase connection time (1 token = 1 second default)
 4. **Creator-controlled float** - You decide how many tokens to sell
 5. **Social bootstrapping** - Friends invest in friends
-

TOKEN ECONOMICS

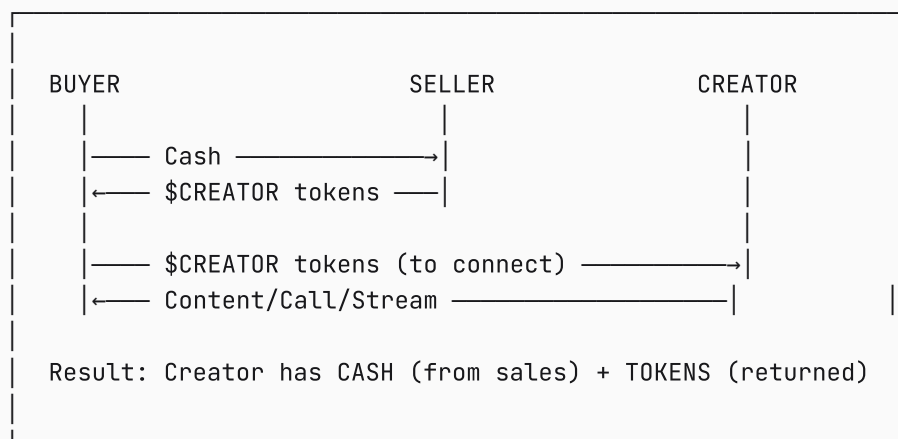
SUPPLY MODEL

Per-person supply: 1,000,000,000 tokens (1 billion)
 No minting after genesis
 No burning - tokens circulate

ACCESS PRICING

Base rate: 1 token = 1 second of connection
 Configurable per creator: 1-100 tokens/second
 Multicast: Same rate, split across viewers (or flat per viewer)

THE ECONOMIC FLOW



CREATOR FLOAT CONTROL

| STRATEGY | TOKEN FLOAT | PRICE | RESULT |
|------------|------------------------|---------------|---|
| Exclusive | Low (hold most tokens) | High | Premium access, fewer connections |
| Accessible | High (sell freely) | Low | Mass audience, lower per-connection value |
| Balanced | Medium | Market-driven | Organic price discovery |

SOCIAL SCALING

THE FRIEND INVESTMENT MODEL

Users naturally invest in people they care about:

```

I value my friend
  ↓
I buy MORE tokens than I need
  ↓
I stake tokens (earn from their success)
  ↓
I complete KYC (because I trust them)
  ↓
They succeed → I profit + maintain access
  ↓
Network grows through real relationships
  
```

WHY THIS WORKS

1. **Aligned incentives** - Supporting friends = potential profit
2. **Natural liquidity** - Social circles create baseline markets
3. **Trust bootstrapping** - KYC happens where trust exists
4. **Anti-spam** - Connecting costs tokens (economic friction)
5. **No platform rent** - Direct peer-to-peer settlement

STAKING & DIVIDENDS

STAKING MECHANISM

```

Stake $CREATOR tokens
  ↓
Receive share of creator's revenue
  ↓
Revenue = all token purchases for their content
  ↓
Dividend = (your_stake / total_staked) × revenue × dividend_rate
  
```

DIVIDEND CLAIMS & KYC

- **Basic access:** No KYC required (permissionless)

- **Dividend claims:** KYC required
- **Identity anchor:** Phone contract, government ID, or trusted verifier
- **Result:** Voluntary identity layer where money flows out

REVENUE SPLIT (DEFAULT)

Creator revenue from token sales:

- |— 70% → Creator wallet
- |— 20% → Staker dividend pool
- |— 10% → Protocol treasury (\$402 token holders)

CONNECTION TYPES

1. DIRECT CALL (1:1)

Caller spends: N tokens (for N seconds)
 Creator receives: N tokens
 Bidirectional: Both parties spend each other's tokens
 Net cost: Difference in token values

2. MULTICAST STREAM (1:MANY)

Creator streams content
 Each viewer spends: N tokens/second
 Creator receives: N × viewers tokens
 Scales to unlimited viewers

3. ASYMMETRIC VALUE CALLS

\$RICHARD worth: 1000 sats/token

\$BOB worth: 100 sats/token

Bob calls Richard:

- Bob spends \$RICHARD tokens (expensive)
- Richard spends \$BOB tokens (cheap)
- Net: Bob pays ~900 sats/second to talk to Richard

Richard calls Bob:

- Same mechanics, reversed
- Net: Richard earns ~900 sats/second


CLIENT FEATURES

1. IDENTITY & MINTING

```
YOUR TOKEN: $YOURNAME
Supply: 1,000,000,000
Float: 100,000,000 (10% for sale)
Floor price: 500 sats
Access rate: 1 token/second
```

2. DISCOVERY & INDEXING

DISCOVER

 Search tokens...

TRENDING

└ \$SPIELBERG

└ \$ROGAN

└ \$MRBEAST

FRIENDS

\$ALICE

\$BOB

\$CAROL

NEW

\$JANE

\$MARK

\$SARA

3. PORTFOLIO & RANKINGS

| MY PORTFOLIO | | | |
|-----------------|---------|--------------------|--------|
| Token | Balance | Value | Staked |
| \$ALICE | 50,000 | \$25.00 | Yes |
| \$BOB | 10,000 | \$5.00 | No |
| \$CAROL | 100,000 | \$75.00 | Yes |
| Total: \$105.00 | | Dividends: \$12.50 | |

4. VIDEO/AUDIO CALLS

VIDEO FEED

Calling: \$ALICE
 Rate: 1 token/sec (500 sats/sec)
 Balance: 50,000 tokens (13.8 hours)

[Mute] [Video] [End Call]

5. STAKING PANEL

STAKING

\$ALICE - Staked: 25,000 tokens
 └ Your share: 2.5%
 └ Total pool: 1,000,000 staked
 └ This month: \$50.00 revenue
 └ Your dividend: \$1.25

[Stake More] [Unstake] [Claim]

6. KYC TAB

IDENTITY VERIFICATION

Status: ✓ Verified
 Method: Phone contract
 Verified: 2026-02-01

Linked tokens (can claim dividends):

- └ \$ALICE ✓
- └ \$BOB ✓
- └ \$CAROL ✓

[Add Verification] [Manage]

PROTOCOL MESSAGES

TOKEN OPERATIONS

```
interface TokenTransfer {
  token_id: string;      // e.g., "$RICHARD"
  from: string;          // sender address
  to: string;            // recipient address
  amount: number;        // tokens transferred
  purpose: 'purchase' | 'access' | 'stake' | 'unstake' | 'dividend'
}
```

CONNECTION HANDSHAKE

```
interface ConnectionRequest {
  caller_token: string;  // Caller's token ID
  callee_token: string;  // Callee's token ID
  caller_balance: number; // Tokens caller holds of callee
  requested_duration: number; // Seconds requested
  connection_type: 'call' | 'stream' | 'chat';
}

interface ConnectionAccept {
  session_id: string;
  rate: number;          // Tokens per second
  accepted_duration: number;
}
```

STAKING OPERATIONS

```
interface StakeRequest {
  token_id: string;
  amount: number;
  staker: string;
}

interface DividendClaim {
  token_id: string;
  claimant: string;
  kyc_proof: string;      // Reference to KYC verification
  period: string;         // e.g., "2026-02"
}
```

BSV IMPLEMENTATION

WHY BSV ONLY

| REQUIREMENT | BSV | ETH/OTHERS |
|------------------------------|----------------|----------------|
| 1 token/second micropayments | ✓ <0.001¢ fees | × \$0.50+ fees |
| Real-time settlement | ✓ Instant | × Block times |
| Scalability | ✓ Unbounded | × Gas limits |
| Token standard | BSV-20 | ERC-20 |

ON-CHAIN VS OFF-CHAIN

```
On-chain (BSV):
├─ Token genesis (1bn supply)
├─ Large transfers
├─ Staking/unstaking
├─ Dividend distributions
└─ KYC attestations

Off-chain (Gossip):
├─ Connection handshakes
├─ Micro-transfers during calls
├─ Real-time balance updates
└─ Periodic settlement to chain
```

PRICING FORMULA

SQRT_DECAY MODEL

```
price = base_price / sqrt(supply_sold + 1)
```

- **Early buyers:** Lower price (reward early supporters)
- **Later buyers:** Higher price (scarcity premium)
- **Creator benefit:** Early friends get deals, mass market pays more

EXAMPLE

```
Base price: 500 sats  
Supply sold: 0 → Price: 500 sats  
Supply sold: 99 → Price: 50 sats  
Supply sold: 9,999 → Price: 5 sats  
Supply sold: 999,999 → Price: 0.5 sats
```

SECURITY CONSIDERATIONS

ANTI-SPAM

- Connection requires tokens (economic cost)
- No tokens = no access
- Spam is expensive

PRIVACY

- Basic access: Pseudonymous (just addresses)
- Dividend claims: KYC required (real identity)
- User controls identity disclosure level

SYBIL RESISTANCE

- Creating fake accounts costs nothing

- But fake accounts have no social graph
- No friends = no token buyers = worthless token
- Social proof required for value

LEGAL COMPLIANCE & LIABILITY

CORPORATE REGISTER VS TOKEN OWNERSHIP

The company has liability and must produce a confirmation statement each year showing an up-to-date register of members. However, Members can trade tokens that act as a claim on their shares without permission.

So while the confirmation statement may say Alice holds Title, she may have already sold her interest to Bob, who has already sold it to Charlie. The confirmation statement says Alice owns the share on the register, but that is still legally compliant, even though the reality is that Charlie holds the asset. As long as each individual pays their own taxes, they are compliant too.

ROADMAP

PHASE 1: CORE PROTOCOL ✓

- ☒ Token model defined
- ☒ Access mechanics specified
- ☒ Economic flows documented

PHASE 2: CLIENT IMPLEMENTATION

- ☐ Video/audio call module
- ☐ Portfolio tracking
- ☐ Discovery/search
- ☐ Staking UI
- ☐ KYC integration

PHASE 3: NETWORK LAUNCH

- ☐ Bootstrap peers
- ☐ Initial token minting
- ☐ Creator onboarding
- ☐ Market maker liquidity

PHASE 4: ECOSYSTEM

- ☐ Mobile apps
- ☐ Browser extension
- ☐ API for third-party apps
- ☐ Creator tools

SUMMARY

\$402 creates an attention economy where:

1. **Everyone has a price** - Your token represents your time's market value
2. **Friends invest in friends** - Social relationships create liquidity
3. **Creators control access** - Your float, your rules
4. **Speculators align with supporters** - Staking rewards belief
5. **KYC is voluntary but incentivized** - Need it for dividends
6. **BSV enables micropayments** - 1 token/second is economically viable

The network scales through genuine social investment, not viral growth hacks.

PERSONAL TOKEN MINTING

BSV21 STANDARD

Personal tokens use the BSV21 fungible token standard with \$402 extensions:

```
{
  "p": "bsv-21",
  "op": "deploy",
  "tick": "$RICHARD",
  "max": "1000000000",
  "dec": "0",
  "path402": {
    "accessRate": 1,
    "protocol": "path402",
    "version": "1.0.0"
  },
  "metadata": {
    "name": "RICHARD",
    "description": "Access token for Richard",
    "avatar": "https:// ...",
    "website": "https:// ..."
  }
}
```

TOKEN PROPERTIES

| PROPERTY | VALUE | DESCRIPTION |
|------------|---------------|-----------------------------------|
| supply | 1,000,000,000 | Fixed, no further minting |
| decimals | 0 | Whole tokens only |
| accessRate | 1-100 | Tokens per second for connections |
| burning | Disabled | Tokens circulate, never destroyed |

PROOF OF SERVE

Nodes earn rewards through actual network contribution:

| ACTION | DESCRIPTION | REWARD WEIGHT |
|----------|-------------------------------|---------------|
| serve | Deliver content to requesters | High |
| relay | Forward gossip messages | Medium |
| index | Maintain accurate indexes | Medium |
| validate | Verify transactions | Low |

Reward Formula:

$$\text{node_reward} = (\text{node_serves} / \text{total_network_serves}) \times \text{daily_reward}$$

WHY NOT PROOF OF WORK?

| PROOF OF WORK | PROOF OF SERVE |
|--------------------------|---------------------------|
| Rewards hash computation | Rewards actual service |
| Wastes electricity | Uses real network work |
| Centralizes to ASICs | Scales with usage |
| One winner per block | Everyone who serves earns |

Version: 3.0.0 Last Updated: 2026-02-05