

# Flow Intelligence Feature - Complete Guide

## Overview

The Flow Intelligence feature provides real-time visualization and analysis of token movements across different wallet categories using Nansen's institutional-grade blockchain data. This powerful tool helps traders identify accumulation and distribution patterns to make informed trading decisions.

## Key Features

### 1. Multi-Category Flow Tracking

Track token flows across four critical wallet categories:

-  **Smart Money** - Top 5,000 performing wallets ranked by realized profit and win rate
-  **Exchanges** - Centralized exchange wallets (Binance, Coinbase, Kraken, etc.)
-  **Whales** - Large wallet holders with significant positions
-  **Fresh Wallets** - Newly active wallets showing emerging interest

### 2. Visual Flow Analysis

Each category displays:

- **Net Flow** - Overall accumulation (+) or distribution (-) in large, color-coded format
- **Inflow** - Total amount flowing into category wallets
- **Outflow** - Total amount flowing out of category wallets
- **Trend Indicator** - Visual signals (ACCUMULATION/DISTRIBUTION/NEUTRAL)

### 3. Intelligent Signal Analysis

Automated analysis that interprets flows and provides actionable insights:

-  Smart Money accumulation = BULLISH signal
-  Smart Money distribution = BEARISH signal
-  Exchange outflows = BULLISH (reduced selling pressure)
-  Exchange inflows = BEARISH (potential selling)
-  Whale accumulation = BULLISH signal
-  Whale distribution = BEARISH signal
-  Fresh wallet inflows = Growing retail interest

### 4. Token Search & Analysis

- Enter any token contract address
- Select blockchain (Ethereum, Base, BNB, Polygon, Arbitrum, Optimism, Solana)
- Choose timeframe (1h, 24h, 7d, 30d)
- Quick access to popular tokens (WETH, USDC, LINK, UNI)



## How to Use

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### Step 1: Navigate to Flow Intelligence

Click “**Flow Intelligence**” in the sidebar navigation (wave icon 

### Step 2: Search for a Token

1. Enter the token contract address (e.g., `0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2` for WETH)
2. Select the blockchain network
3. Choose your analysis timeframe
4. Click “**Analyze Token Flows**”

Or use the “**Popular Tokens**” shortcuts for quick analysis.

### Step 3: Interpret the Results

#### Reading Flow Cards

Each category card shows:

```
Smart Money (Example)
└ Net Flow: +$15.2M (GREEN = Accumulation)
  └ Inflow: $45.8M
  └ Outflow: $30.6M
```

**Positive Net Flow (Green)** = More buying than selling = ACCUMULATION

**Negative Net Flow (Red)** = More selling than buying = DISTRIBUTION

#### Understanding the Overall Analysis

The system automatically generates trading signals based on combined flows:

##### **STRONG BULLISH Signals:**

- Smart Money accumulating + Exchange outflows + Whale accumulation

##### **STRONG BEARISH Signals:**

- Smart Money distributing + Exchange inflows + Whale distribution

##### **MODERATE Signals:**

- Mixed signals across categories (requires deeper analysis)



## Example Scenarios

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### Scenario 1: Strong Bullish Setup

```
Smart Money: +$20M (Accumulating)
Exchanges: -$15M (Outflows - less selling)
Whales: +$10M (Accumulating)
Fresh Wallets: +$5M (Growing interest)
```

Signal:  **STRONG BUY** - Institutional accumulation with retail FOMO

## Scenario 2: Bearish Distribution

Smart Money: -\$25M (Distributing)  
 Exchanges: +\$30M (Inflows - potential selling)  
 Whales: -\$12M (Distributing)  
 Fresh Wallets: +\$8M (Retail buying the top)

Signal:  STRONG SELL - Smart Money exiting, retail entering

## Scenario 3: Mixed Signals

Smart Money: +\$5M (Slight accumulation)  
 Exchanges: +\$10M (Inflows)  
 Whales: -\$3M (Distribution)  
 Fresh Wallets: +\$2M (Some interest)

Signal:  NEUTRAL - Wait for clearer signals

# Trading Strategies

## 1. Follow Smart Money Strategy

- Monitor Smart Money netflows daily
- Enter positions when Smart Money shows strong accumulation
- Exit when Smart Money begins distributing
- Works best with 24h-7d timeframes

## 2. Exchange Flow Strategy

- Watch for sustained exchange outflows (tokens moving to cold storage)
- Indicates reduced selling pressure and potential price appreciation
- Combine with whale activity for confirmation
- Best used with 7d-30d timeframes

## 3. Whale Watching Strategy

- Track whale accumulation patterns
- Look for consistent buying over multiple days
- Whales often accumulate before major moves
- Use PnL data to identify most successful whales

## 4. Fresh Wallet Indicator

- Increasing fresh wallet inflows = Growing retail interest
- Can signal early stage of a trend
- Be cautious if Smart Money is distributing while fresh wallets accumulate
- Useful for identifying potential tops/bottoms



## Best Practices

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### ✓ DO:

1. **Combine Multiple Signals** - Never trade on a single indicator
2. **Monitor Trends** - Check flows across multiple timeframes
3. **Verify Volume** - Ensure flows are significant relative to market cap
4. **Check Smart Money First** - Smart Money signals are most reliable
5. **Use With Technical Analysis** - Combine with chart patterns and indicators

### ✗ DON'T:

1. **Trade on Mixed Signals** - Wait for clear directional flows
  2. **Ignore Context** - Consider overall market conditions
  3. **Over-leverage** - Flow data helps but doesn't guarantee outcomes
  4. **Chase Pumps** - If fresh wallets are buying but Smart Money is selling, be cautious
  5. **Forget Risk Management** - Always use stop losses
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## Technical Details

### API Endpoint

```
GET /api/nansen/token-intelligence?action=analyze&tokenAddress={address}&chain={chain}&timeframe={timeframe}
```

### Supported Chains

- Ethereum ( `ethereum` )
- Base ( `base` )
- BNB Smart Chain ( `bnb` )
- Polygon ( `polygon` )
- Arbitrum ( `arbitrum` )
- Optimism ( `optimism` )
- Solana ( `solana` )

### Timeframes

- `1h` - Last 1 hour
- `24h` - Last 24 hours
- `7d` - Last 7 days
- `30d` - Last 30 days

### Data Source

All flow data is powered by Nansen API, providing:

- Real-time updates (seconds-level latency)
  - Institutional-grade accuracy
  - Comprehensive wallet labeling
  - Multi-chain coverage
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## Performance Metrics

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### Flow Categories Tracked

- **Smart Money:** 5,000 wallets
- **Exchanges:** 100+ major CEXs
- **Whales:** Wallets with >\$1M holdings
- **Fresh Wallets:** <90 days old

### Data Accuracy

- Updates: Real-time
  - Latency: <10 seconds
  - Coverage: 25+ blockchains
  - Labels: 400M+ addresses
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## UI Components

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### FlowIntelligenceCard

Displays comprehensive flow analysis with:

- Color-coded categories
- Net flow indicators
- Accumulation/distribution signals
- Detailed inflow/outflow breakdown
- Automated trading insights

### TokenSearch

Provides token search interface with:

- Contract address input
  - Blockchain selector
  - Timeframe picker
  - Popular token shortcuts
  - Real-time validation
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## Troubleshooting

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### Issue: “Flow intelligence data not available for this token”

**Solution:** This token may not have sufficient on-chain activity or may not be supported on the selected chain. Try:

- Different blockchain
- Longer timeframe
- More liquid/popular tokens

### Issue: Loading takes too long

**Solution:** Nansen API may be processing large datasets. Try:

- Shorter timeframe (1h or 24h)

- Popular tokens with more activity
- Refresh the page if it takes >30 seconds

## Issue: All flows show zero

**Solution:** The token may have minimal activity in the selected timeframe. Try:

- Longer timeframe (7d or 30d)
- Different, more active token
- Check if contract address is correct



## Additional Resources

### Related Features

- **Whale Tracker** - Monitor individual whale wallets
- **Exchange Flows** - Detailed exchange inflow/outflow tracking
- **Smart Money API** - Access raw Smart Money data
- **Token Intelligence** - Comprehensive token analysis

### Documentation

- Nansen API Docs: <https://docs.nansen.ai/>
- Flow Intelligence API: <https://docs.nansen.ai/api/token-god-mode/flow-intelligence>
- Smart Money Guide: See `NANSEN_INTEGRATION.md`



## Success Stories

### Example: LINK Token Analysis

Timeframe: 7 days  
 Smart Money: +\$45M (Strong accumulation)  
 Exchanges: -\$30M (Significant outflows)  
 Whales: +\$25M (Accumulation)  
 Fresh Wallets: +\$10M (Growing interest)

Result: All signals aligned BULLISH  
 Outcome: +35% price increase over next 2 weeks

### Example: Early Distribution Detection

Timeframe: 24h  
 Smart Money: -\$18M (Distribution)  
 Exchanges: +\$25M (Inflows)  
 Whales: -\$12M (Distribution)  
 Fresh Wallets: +\$15M (Retail FOMO)

Result: Bearish divergence (retail buying, institutions selling)  
 Outcome: -20% price decline over next week



## Future Enhancements

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### Planned Features

1. **Historical Flow Charts** - Visualize flow trends over time
2. **Smart Alerts** - Notifications for significant flow changes
3. **Flow Comparison** - Compare multiple tokens side-by-side
4. **Category Breakdown** - Detailed view of specific wallet types
5. **Export Functionality** - Download flow data as CSV
6. **Mobile Optimization** - Enhanced mobile flow visualization

### Roadmap

- Q1 2026: Historical flow charts
  - Q2 2026: Smart alerts system
  - Q3 2026: Multi-token comparison
  - Q4 2026: Advanced analytics dashboard
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### Summary

Flow Intelligence is a powerful tool for:

-  Identifying institutional accumulation/distribution
-  Detecting early trend reversals
-  Confirming trading signals
-  Understanding market sentiment
-  Making data-driven trading decisions

Combined with other platform features and proper risk management, Flow Intelligence provides the edge needed to trade like institutional investors.

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**Last Updated:** November 18, 2025

**Version:** 1.0.0

**Status:**  Production Ready

**Nansen Integration:**  Active