MARITIME (MRT) Whitepaper v1.4

Polygon PoS • ERC-20

MARITIME (MRT)
An Open-Market ERC-20 Asset with a Maritime Logistics Utility Roadmap (Market-First Approach)
Network: Polygon PoS • Token Standard: ERC-20 • Version: v1.4 • Date: February 24, 2026

Abstract

MARITIME (MRT) is a fixed-supply ERC-20 token deployed on Polygon PoS. MRT is designed for open market participation: anyone can hold, transfer, and trade MRT on decentralized exchanges where liquidity is provided. In parallel, MARITIME pursues a roadmap of optional maritime logistics utilities, starting with USDC-based freight escrow settlement workflows, a dispute layer, and a planned carbon-proof reporting component. This document clarifies what exists today (a minimal, verifiable ERC-20 plus live DEX liquidity) and what is roadmapped (integration and workflow modules).

1. Vision and Positioning

MARITIME (MRT) is positioned as (i) an openly tradable crypto asset accessible to global investors and traders, and (ii) a token underpinning a maritime logistics roadmap that targets faster, more transparent settlement flows. The project is intentionally minimal at the token layer to maximize auditability and avoid hidden admin controls.

2. Problem Context

Global maritime commerce moves the majority of world trade value, yet operational settlement processes remain fragmented across legacy rails and intermediaries. Typical pain points include multi-day settlement delays, high fee stacks, reconciliation overhead, and limited end-to-end auditability for multi-party flows.

3. Solution Overview

MARITIME approaches the problem with a layered strategy: a simple, fixed-supply ERC-20 asset for open market access and liquidity formation, plus a roadmap of workflow modules that can introduce escrow and event-driven settlement mechanisms while preserving transparency and composability with existing DeFi primitives.

4. Protocol Stack (Market-First, Roadmap-Oriented)

Current state: Layer 0 (Polygon) and Layer 1 (MRT ERC-20) are live; market access and liquidity bootstrapping are in progress; settlement/reporting/integration layers remain roadmap deliverables.

Layer	Purpose	Status
Layer 0: Polygon PoS	Low-cost settlement rail with fast finality	Live (network)
Layer 1: MRT ERC-20	Fixed-supply asset; open transferability and market trading	Live (mainnet)
Layer 1.5: Market Access	DEX liquidity provisioning, trading pair discovery, metadata submissions	Live / in progress
Layer 2: Settlement Workflows	USDC escrow, milestone releases, dispute workflow	Roadmap
Layer 3: Reporting & Proofs	Carbon-proof reporting and audit artifacts	Roadmap

Layer	Purpose	Status
Layer 4: Integrations	APIs, accounting exports, merchant tooling	Roadmap

5. Token Design

MRT is implemented using the OpenZeppelin ERC-20 standard library. The contract is intentionally minimal: it mints the entire fixed supply once at deployment and exposes only standard ERC-20 functions (transfer, approve, transferFrom, allowance, balanceOf). There are no fees, blacklists, pausing, or admin minting.

Parameter	Value
Token Name / Symbol	MARITIME / MRT
Network	Polygon PoS (Mainnet)
Standard	ERC-20
Decimals	18
Total Supply	100,000,000 MRT (fixed)
Minting	Only in constructor (one-time)
Admin Controls	None (no admin mint, no tax, no pause)

6. Markets and Liquidity

MRT is designed for open trading on decentralized exchanges where liquidity is provided by the community. Liquidity enables price discovery and reduces slippage for participants. Initial pools may start with modest capital and expand over time. Risk management should emphasize controlled approvals, avoiding unlimited allowances where unnecessary, and verifying token addresses to reduce counterfeit-asset risk.

7. Security Model

Token-layer security relies on the audited OpenZeppelin ERC-20 implementation and Polygon PoS network assumptions. Operational security depends on key management (hardware wallet recommended), careful address verification, and minimizing permissions granted to third-party contracts. Roadmapped modules that introduce escrow or oracles will require separate security reviews and explicit trust assumptions.

8. Current Status Snapshot (as of v1.4)

• ERC-20 contract deployed on Polygon and source verified on PolygonScan.
• QuickSwap V3 liquidity position is live for MRT/USDC (initial bootstrap liquidity established and increased).
• DexScreener pair visibility established; token metadata/social submissions are in progress.
• Documentation repository and whitepaper are publicly maintained on GitHub.

9. Roadmap

Phase	Deliverables
Phase 0 (Complete)	Deploy MRT on Polygon PoS. Verify contract source code on an explorer. Publish repository and basic assets.

Phase	Deliverables
Phase 1 (Markets)	Bootstrap MRT liquidity pools, monitor slippage, publish swap/LP guides, and complete token metadata submissions (logo/socials/links).
Phase 2 (Utility MVP)	Design USDC escrow settlement MVP and dispute workflow specification. Prototype contracts off-mainnet.
Phase 3 (Reporting)	Carbon-proof reporting and audit artifact design. Integration pilots and accounting exports.

10. Legal Disclaimer

This document is for informational purposes only and does not constitute investment, legal, or tax advice. MRT is a crypto asset and may be volatile. Participation in decentralized markets carries risk, including smart contract risk, liquidity risk, and market risk. Users are responsible for their own due diligence.