Q4 2026 CEX INTEGRATION

OFFICIAL ARCHITECTURE MEMORANDUM & TECHNICAL SPECIFICATION

The TANSIQ Protocol & $TNQ Token Architecture

A High-Performance Solana Utility & Settlement Network for Regional Energy, Real Estate, and Physical Assets

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TOTAL CANONICAL SUPPLY	PUBLIC PRESALE (10%)	COMMUNITY REWARDS (25%)	LISTING LIQUIDITY (55%)
165,000,000	$0.10 USD	41,250,000	90,750,000
Fixed SPL / Zero Inflation	16,500,000 $TNQ Allocation	Protocol Contributor TGE Claim	33.0M DEX + 57.75M CEX/MM

Executive Abstract: This document presents the technical architecture, tokenomics, and real-world settlement capabilities of **$TNQ**, a high-speed utility asset built on the Solana blockchain. Designed to streamline investments and payments in capital-intensive physical asset industries across the MENA and GCC regions, TANSIQ replaces slow banking wires with sub-second on-chain transactions, secure smart-contract escrows, and ultra-low fees. The protocol operates with a fixed, unchangeable supply of **165,000,000 tokens**: **25%** (41,250,000 $TNQ) is reserved for community and ecosystem contributor reward claims, **10%** (16,500,000 $TNQ) is allocated to the public presale at $0.10 USD, **55%** (90,750,000 $TNQ) is dedicated to listing liquidity (33,000,000 $TNQ initial DEX pool + 57,750,000 $TNQ CEX and market-making liquidity vault governed under multi-sig controls) for deployment in **Q4 2026** at a reference price of $0.30 USD, **5%** (8,250,000 $TNQ) is held in a 12-month automated timelock escrow for partners and advisors, and **5%** (8,250,000 $TNQ) is locked for 24 months for the core engineering team. Real-world asset integrations operate through bankruptcy-remote Special Purpose Vehicles (SPVs) with 100% native $TNQ yield streaming, enterprise collateral bonding, and deflationary protocol burn mechanics.

I. Solana SPL Core Engine

~400ms finality, sub-$0.001 fees, and non-custodial Program Derived Address (PDA) vault security.

II. Multi-Venue Liquidity & Governance

55% listing liquidity with multi-sig vault controls, locked DEX LP tokens, and 25% community rewards distribution.

III. Direct $TNQ Value Accrual

100% native $TNQ yield streaming, mandatory collateral lockups, and programmatic deflationary buyback-and-burn mechanics.

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SECTION 01 | FOUNDATIONAL ARCHITECTURE

1. Introduction & Project Overview

Large-scale regional investments - such as clean energy facilities, infrastructure developments, and commercial real estate - face traditional hurdles: slow banking wire transfers, high currency exchange fees, opaque intermediaries, and fragmented liquidity. TANSIQ bridges private capital directly with tangible real-world assets. The $TNQ token is the native utility and payment asset powering instant, low-cost settlements across the entire TANSIQ ecosystem.

To deliver the highest possible speed and reliability, TANSIQ is built natively on the **Solana blockchain**. By taking advantage of Solana's parallel transaction processing and Proof of History architecture, TANSIQ settles transactions in approximately 400 milliseconds with transaction costs below a fraction of a cent ($0.001). This speed enables real-time project payments, automated invoicing, and instant yield distribution that legacy systems cannot match.

SECTION 02 | ACCOUNT ARCHITECTURE & SMART CONTRACTS

2. Solana Smart Contracts & Account Schema

TANSIQ smart contracts are developed using the **Anchor Framework** on Solana, utilizing SPL Token-2022 standards. All protocol information is stored safely in individual accounts called Program Derived Addresses (PDAs). Because Solana separates smart contract logic from account data, multiple transactions can run in parallel without bottlenecks.

Table 1: *TANSIQ Core On-Chain Account State Schema & PDA Derivations*

Account Struct	PDA Seeds	Access Control	Functional Role
PresaleVault	b"presale_vault", mint	Program Signer PDA	Holds 16.5M presale tokens for distribution to presale buyers
CommunityClaimVault	b"community_vault", mint	Program Signer PDA	Holds 41.25M tokens for on-chain distribution of community & ecosystem rewards
UserClaimPDA	b"claim", user_pubkey	User Signature (Ed25519)	Tracks reserved presale and community reward $TNQ balances for on-chain claim
PartnerEscrowPDA	b"partner_escrow", pubkey	Timelock (12 Months)	Enforces 12-month lockup for Advisors & Partners (8.25M $TNQ / 5%)
TeamEscrowPDA	b"team_escrow", pubkey	Timelock (24 Months)	Enforces 24-month lockup for Core Engineering Team (8.25M $TNQ / 5%)
EnterpriseVaultPDA	b"enterprise_escrow", invoice_id	Payer + Recipient Signers	Manages energy and real estate milestone escrow settlements

SECTION 03 | ON-CHAIN INSTRUCTION HANDLERS

3. Smart Contract Instructions & Security Rules

All actions on the TANSIQ network pass through strictly verified instruction handlers that check signatures, timelocks, and balances before executing. The table below outlines the core instructions governing token minting, presale claims, escrow unlocks, and project settlements:

Table 2: *Deterministic Protocol Instructions & Verification Invariants*

Instruction Handler	Required Signers	Input Accounts	Execution Invariant
`initialize_mint()`	Authority Multi-Sig	Mint, Metadata, Vault	Mints exactly 165,000,000 $TNQ; revokes mint authority permanently
`claim_presale()`	Buyer Wallet (Ed25519)	PresaleVault, BuyerATA	Validates user claim record and transfers allocated presale tokens
`claim_community_rewards()`	Contributor Wallet (Ed25519)	CommunityVault, UserATA	Validates community contributor claim and transfers allocated $TNQ to user wallet
`unlock_partner_escrow()`	Partner Wallet	PartnerEscrowPDA, ATA	Rejects if clock < TGE + 365 days; transfers 5% on maturity
`unlock_team_escrow()`	Team Wallet	TeamEscrowPDA, ATA	Rejects if clock < TGE + 730 days; transfers 5% on maturity
`create_enterprise_escrow()`	Payer Wallet	EnterpriseVaultPDA, PayerATA	Locks $TNQ settlement collateral against verified invoice hash
`release_enterprise_yield()`	Oracle / Auditor Co-Sig	EnterpriseVault, PayeeATA	Distributes verified project yield directly to recipient wallets

SECTION 04 | SMART CONTRACT IMPLEMENTATION

4. Anchor Smart Contract: Enterprise Milestone Escrow & Yield Engine

Below is the production Anchor smart contract handler written in Rust for enterprise milestone settlements. It validates oracle price benchmarks, checks completion signatures, computes basis-point allocations, and enforces direct on-chain yield streaming:

Listing 1: *Enterprise Milestone Escrow & Cryptographic Oracle Settlement Handler (Anchor / Rust)*

```rust
// TANSIQ Protocol: On-Chain Enterprise RWA Milestone Escrow (Anchor / Rust)
use anchor_lang::prelude::*;
use anchor_spl::token::{self, Mint, Token, TokenAccount, Transfer};
use pyth_sdk_solana::load_price_feed_from_account_info;

#[account]
#[derive(Default)]
pub struct EnterpriseEscrowAccount {
    pub payer: Pubkey,             // Enterprise client / buyer wallet
    pub operator: Pubkey,          // Physical asset operator / developer
    pub oracle_feed: Pubkey,       // Pyth / Switchboard oracle account
    pub total_escrow_tnq: u64,     // Locked $TNQ collateral in base units
    pub milestone_pct_bps: u16,    // Basis points release (e.g. 2500 = 25%)
    pub protocol_burn_bps: u16,    // Deflationary buyback/burn fee (e.g. 200 = 2%)
    pub is_settled: bool,          // Prevents double execution
    pub invoice_hash: [u8; 32],    // Sha256 hash of verified SPV invoice
}

pub fn release_milestone_yield(ctx: Context<ReleaseMilestone>) -> Result<()> {
    let escrow = &mut ctx.accounts.escrow_account;
    let clock = Clock::get()?;
    require!(!escrow.is_settled, TansiqError::AlreadySettled);

    // Cryptographic Oracle Attestation Verification
    let pyth_feed = load_price_feed_from_account_info(&ctx.accounts.oracle_feed)?;
    require!(
        pyth_feed.get_price_no_older_than(clock.unix_timestamp, 60).is_some(),
        TansiqError::StaleOracleFeed
    );

    let payout_tnq = (escrow.total_escrow_tnq as u128
        * escrow.milestone_pct_bps as u128 / 10000) as u64;
    token::transfer(ctx.accounts.into_operator_transfer_context(), payout_tnq)?;
    escrow.is_settled = true;

    Ok(())
}
```

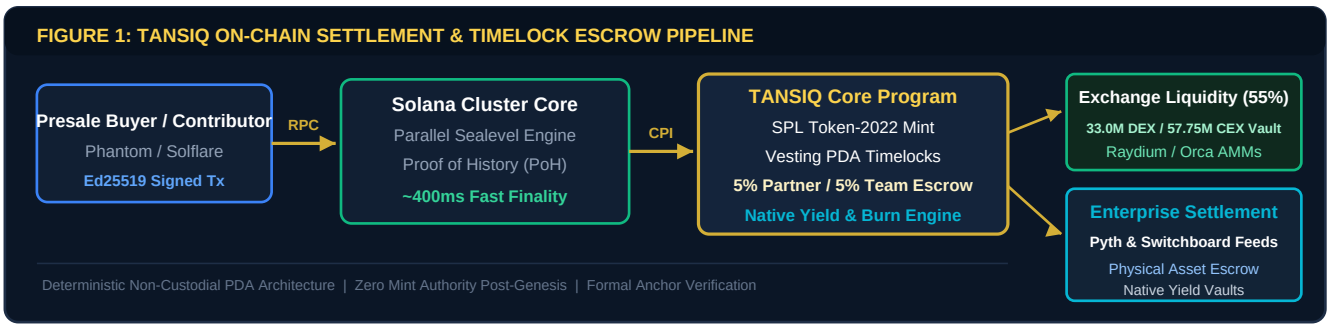
Table 3: *Enterprise Milestone Escrow & Yield Settlement Data Flow*

Settlement Step	On-Chain Action	Security Verification	Outcome
1. Escrow Creation	Buyer locks $TNQ collateral in EnterpriseVault PDA	Ed25519 signature & invoice hash verified	Funds secured in program escrow
2. Milestone Proof	Project operator submits completed milestone data	Multi-oracle signature & invoice verification	Milestone status updated to Verified
3. Fund Release	Contract streams native $TNQ yield directly to operator vaults	Atomic CPI transfer; fee burn executed	Direct yield realization driving organic $TNQ holding demand

SECTION 05 | SYSTEM SETTLEMENT TOPOLOGY

5. Transaction Flow & Network Architecture

The diagram below demonstrates how user transactions flow through the Solana validator network to the TANSIQ smart contract layer, connecting exchange liquidity pools and enterprise settlement vaults:



SECTION 06 | TOKENOMICS & ALLOCATION MATRIX

6. Token Supply, Distribution & Lockup Schedules

The total supply of $TNQ is fixed at exactly **165,000,000 tokens** with zero inflation and permanently revoked mint authority. To ensure institutional stability, the 55% liquidity allocation is governed by strict multi-sig parameters: **33,000,000 $TNQ (20%)** is dedicated to initial DEX pools with LP tokens locked on-chain, while **57,750,000 $TNQ (35%)** is secured in the CEX & Market-Making Vault under an institutional 4-of-7 multi-sig governed by delta-neutral covenants.

Table 4: *Canonical $TNQ Supply Distribution & Release Schedules*

Allocation Category	Token Amount	Share	Lockup & Distribution Terms
Listing Liquidity	**90,750,000 $TNQ**	55.00%	33.0M Initial DEX Pool (Raydium/Orca) with locked LP tokens + 57.75M CEX & Market-Making Vault under 4-of-7 Institutional Multi-Sig deployed under delta-neutral MM loan agreements.
Public Presale	**16,500,000 $TNQ**	10.00%	Available at $0.10 USD per token (16,500,000 $TNQ cap). Tokens claimed directly to participant Solana wallets via on-chain instruction.
Community & Ecosystem Rewards	**41,250,000 $TNQ**	25.00%	Dedicated to on-chain distribution of early community and network contributor rewards. Claimable at TGE via official Solana claim desk.
Partners & Advisors	**8,250,000 $TNQ**	5.00%	Locked for 12 months in an automated smart contract timelock. Zero withdrawals permitted prior to the 12-month cliff date.
Core Team & Engineering	**8,250,000 $TNQ**	5.00%	Locked for 24 months in an automated smart contract timelock. Zero withdrawals permitted prior to the 24-month cliff date.
Total Canonical Supply	**165,000,000 $TNQ**	**100.00%**	**Strictly fixed supply. Zero inflation. Mint authority permanently disabled.**

SECTION 07 | REAL-WORLD ASSET INTEGRATION & VALUE ACCRUAL

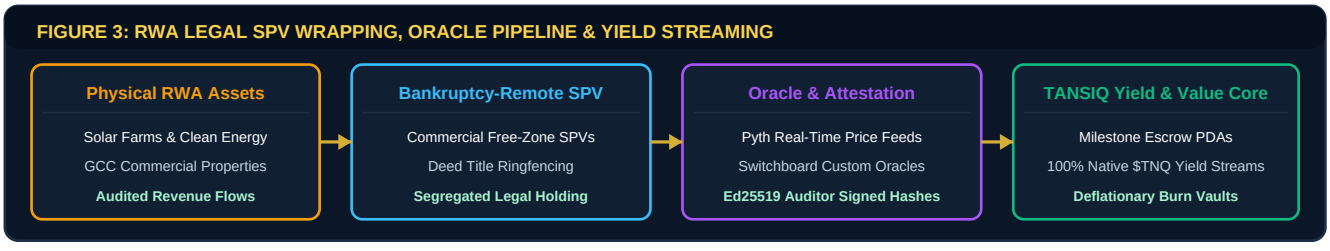
7. Legal SPV Structuring, Oracle Pipelines & Native $TNQ Value Accrual

TANSIQ bridges digital liquidity directly with real-world, income-producing assets across the GCC region. To maximize long-term token value and eliminate token velocity degradation, TANSIQ implements a three-tier framework:

1. Bankruptcy-Remote Commercial SPVs: Real estate titles, energy infrastructure, and revenue rights are legally held in Special Purpose Vehicles (SPVs) established under recognized commercial free-zone legal frameworks. Physical property and utility titles are legally segregated from operational platform liabilities, ensuring complete investor equity ringfencing.

2. Multi-Oracle Attestation & Invoice Hash Verification: Asset valuation benchmarks, energy production metrics, and milestone completions are validated through a multi-oracle network powered by Pyth Network and Switchboard. Independent engineering audits are cryptographically signed using Ed25519 before escrow distribution.

3. 100% Native $TNQ Yield Streaming & Deflationary Burn Engine (Eliminating Velocity Traps): All enterprise project yields, clean energy PPA distributions, and commercial property dividends are streamed **100% natively in $TNQ tokens** directly to participant staking vaults. Enterprise partners must lock $TNQ in non-custodial PDA escrows as mandatory performance collateral throughout each contract lifecycle. Furthermore, a programmatic fee burn permanently removes tokens from circulation upon each settlement, establishing robust structural buy-and-hold demand.



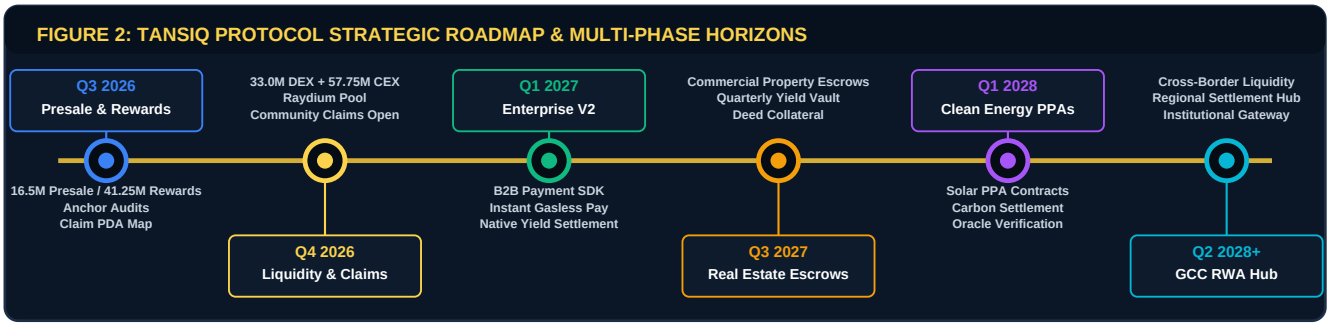
Key Settlement Capabilities: (a) Sub-second energy contract settlements on Solana; (b) Zero FX friction across GCC cross-border trades; (c) Programmatic milestone escrows; (d) Direct on-chain yield streaming to $TNQ stakeholder vaults.

SECTION 08 | ROADMAP & FUTURE HORIZONS

8. Strategic Roadmap & Milestone Horizons

The TANSIQ roadmap represents a clear, disciplined deployment plan expanding from token launch to multi-sector real-world asset settlements across the region. Figure 2 illustrates the key milestones:

FIGURE 2: TANSIQ PROTOCOL STRATEGIC ROADMAP & MULTI-PHASE HORIZONS



Phase 1 (Q3 2026) | Presale & Community Allocation: Launch of the public presale at $0.10 USD (16,500,000 $TNQ / 10%) and snapshot of early community contributor allocations (41,250,000 $TNQ / 25%). Completion of comprehensive audits for Anchor SPL Token-2022 smart contracts and claim escrows.

Phase 2 (Q4 2026) | Multi-Venue Liquidity Deployment & CEX Integration: Deployment of 33.0M initial DEX pool paired with 57.75M CEX/MM liquidity vault (90.75M $TNQ / 55% total liquidity) at the $0.30 USD reference price under 4-of-7 multi-sig governance. Presale participant and community contributor claims open simultaneously.

Phase 3 (Q1 2027) | Enterprise Settlement Gateway & B2B Invoicing: Launch of the TANSIQ B2B Payment SDK enabling clean energy, real estate, and industrial partners to invoice, clear, and settle transactions natively in $TNQ with automated yield streaming.

Phase 4 (Q3 2027) | Commercial Property Yield Escrows & Deed Tokenization: Implementation of fractional deed collateralization with segregated commercial SPVs and quarterly property yield distributions natively in $TNQ.

Phase 5 (Q1 2028) | Clean Energy Financing & Carbon Offset Settlement: On-chain power purchase agreement (PPA) settlement for regional solar and utility projects with Switchboard/Pyth oracle attestation and automated carbon offset verification.

Phase 6 (Q2 2028+) | Cross-Border Regional Liquidity Network: Expansion of $TNQ into a unified cross-border settlement reserve spanning the UAE, Saudi Arabia, Qatar, Kuwait, and Oman under compliant commercial SPV frameworks.

Execution Invariant: *Each roadmap phase is triggered deterministically via multi-sig protocol upgrades and independent oracle attestation.*

SECTION 08-A | GOVERNANCE & CORPORATE STRUCTURE

8.A Founding Council & Corporate Equity Distribution

The TANSIQ Protocol is governed through an institutional corporate framework aligning sovereign regional leadership, operational execution, and European technical architecture. Corporate equity is distributed among the founding principals as detailed below:

Table 5: *Founding Council & Corporate Equity Distribution Matrix*

Council Member / Entity	Jurisdiction	Corporate Equity	Operational & Strategic Mandate
Fahad Abdulaziz Al-Saud	Saudi Arabia	**50.00%**	Governance & Strategic Regional Expansion across GCC energy and sovereign initiatives
Jaber Ahmed Al-Mansouri (Group Entity)	Qatar	**30.00%**	Regional Operations & Commercial Asset Onboarding across institutional real estate and logistics
Klaus Moller	Germany	**20.00%**	European Infrastructure, Smart Contract Architecture & Technical Systems Oversight

SECTION 08-B | TARGET ENTERPRISE & ASSET PIPELINE

8.B Enterprise Integration Verticals & Target Asset Portfolios

TANSIQ is architected for immediate institutional utility across high-value physical asset verticals. The table below outlines active enterprise integration pipelines and asset classes:

Table 6: *Target Enterprise Asset Pipeline & Commercial Settlement Verticals*

Vertical Sector	Regional Integration Focus	Target Asset Ecosystem	Settlement & Escrow Mechanism
Energy & Utilities	Regional clean energy pipelines & utility infrastructure settlements	**Regional IPP solar farms & clean grid consortia**	Programmatic milestone escrows with Pyth oracle solar PPA native $TNQ yield streams
Commercial Real Estate	Fractional deed escrow & commercial property yield settlements	**Prime commercial grade asset portfolios & hospitality developments**	Commercial SPV deed title ringfencing with automated quarterly $TNQ yield streaming to holder vaults
Logistics & Supply Chain	Regional B2B freight & commercial transaction escrows	**Regional cross-border wholesale logistics & trading networks**	Instant cross-border invoice clearing with sub-second finality & native $TNQ settlement fee discounts

SECTION 09 | SECURITY & AUDITING STANDARDS

9. Security Verification & Institutional Controls

The TANSIQ smart contract architecture undergoes rigorous static analysis, fuzz testing, and independent third-party audits. Key security guarantees include: (1) Mint authority is permanently disabled at launch; (2) Timelock escrows reject any early withdrawal attempts prior to the exact timestamp; (3) 4-of-7 Institutional Multi-Sig controls over market-making vaults with delta-neutral covenants; (4) Multi-oracle attestation with stale price rejection.

SECTION 10 | LEGAL SPV FRAMEWORK & COMPLIANCE NOTICE

10. Legal, Compliance & Jurisdictional Disclaimers

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