



VET **VECHAIN TOKEN WHITEPAPER**

White paper under Title II, Article 4 of Regulation (EU) 2023/1114 (“MiCAR”) for the admission to trading on crypto-asset service providers platforms authorized under Section 59 of MiCAR

00	TABLE OF CONTENTS	<p>SUMMARY</p> <p>Part A – Information about the offeror or the person seeking admission to trading</p> <p>Part D – Information about the crypto-asset project</p> <p>Part E – Information about the offer to the public of crypto-assets or their admission to trading</p> <p>Part F – Information about the crypto-assets</p> <p>Part G – Information on the rights and obligations attached to the crypto-assets</p> <p>Part H – Information on the underlying technology</p> <p>Part I – Information on risks</p> <p>Part J – Information on the sustainability indicators in relation to adverse impact on the climate and other environment-related adverse impacts</p>
01	DATE OF NOTIFICATION	2025-03-05
02	STATEMENT IN ACCORDANCE WITH ARTICLE 6(3) OF REGULATION (EU) 2023/1114	This crypto-asset white paper has not been approved by any competent authority in any Member State of the European Union. The person seeking admission to trading of the crypto-asset is solely responsible for the content of this crypto-asset white paper.
03	COMPLIANCE STATEMENT IN ACCORDANCE WITH ARTICLE 6(6) OF REGULATION (EU) 2023/1114	This crypto-asset white paper complies with Title II of Regulation (EU) 2023/1114 and, to the best of the knowledge of the management body, the information presented in the crypto-asset white paper is fair, clear and not misleading and the crypto-asset white paper makes no omission likely to affect its import.
04	STATEMENT IN ACCORDANCE WITH ARTICLE 6(5), POINTS (A), (B), (C) OF REGULATION (EU) 2023/1114	The crypto-asset referred to in this white paper may lose its value in part or in full, may not always be transferable and may not be liquid.
05	STATEMENT IN ACCORDANCE WITH ARTICLE 6(5), POINT (D) OF REGULATION (EU) 2023/1114	The utility token referred to in this white paper may not be exchangeable against the good or service promised in the crypto-asset white paper, especially in the case of a failure or discontinuation of the crypto-asset project.
06	STATEMENT IN ACCORDANCE WITH ARTICLE 6(5), POINTS (E) AND (F) OF REGULATION (EU) 2023/1114	The crypto-asset referred to in this white paper is not covered by the investor compensation schemes under Directive 97/9/EC of the European Parliament and of the Council.

07	<p>WARNING IN ACCORDANCE WITH ARTICLE 6(7), SECOND SUBPARAGRAPH OF REGULATION (EU) 2023/1114</p>	<p>Warning This summary should be read as an introduction to the crypto-asset white paper. The prospective holder should base any decision to purchase this crypto-asset on the content of the crypto-asset white paper as a whole and not on the summary alone. The offer to the public of this crypto-asset does not constitute an offer or solicitation to purchase financial instruments and any such offer or solicitation can be made only by means of a prospectus or other offer documents pursuant to the applicable national law. This crypto-asset white paper does not constitute a prospectus as referred to in Regulation (EU) 2017/1129 of the European Parliament and of the Council (36) or any other offer document pursuant to Union or national law.</p>
08	<p>CHARACTERISTICS OF THE CRYPTO-ASSET</p>	<p>VET Tokens is a crypto-asset to be classified as “<i>other non asset-referenced token</i>” under MiCAR.</p> <p>VET Token holders are entitled to be elected as nodes (“Nodes”) by holding a predefined number of VET Token for a predetermined period. Being appointed as Node grants holders to certain voting rights, having a voting authority depending on the time the VET Tokens were acquired, the quantity of held tokens and the duration of their holdings. These features are better described in Section G of this white paper. VET Token holders qualifying as Nodes are not granted with decision making powers nor with binding voting rights of the company.</p> <p>Holding VET Tokens for a fixed minimum period also grants holders the assignment of other tokens, named VTHO tokens at a pre-determined velocity and quantity, as better explained in Section G of this white paper. VET Token holders qualifying as Economic XNodes receive additional quantities of VTHO Tokens.</p>
09	<p>INFORMATION ABOUT THE QUALITY AND QUANTITY OF GOODS OR SERVICES TO WHICH THE UTILITY TOKENS GIVE ACCESS AND RESTRICTIONS ON THE TRANSFERABILITY.</p>	<p>Not applicable.</p>
10	<p>KEY INFORMATION ABOUT THE OFFER TO THE PUBLIC OR ADMISSION TO TRADING</p>	<p>There is no predetermined number of VET Tokens to be admitted to trading, although the maximum supply of VET Tokens is 86,712,634,466 tokens. The quantity of VET Tokens currently traded on third party crypto-assets service providers can be seen in real time on specialized market information sources such as Coinmarketcap.</p> <p>As this does not constitute an offer to the public, there are no minimum or maximum target subscription goals, no subscription fees, no discounted phases and no subscription period. Moreover, as the VET Tokens are already listed and traded on various third party crypto-assets service providers, there is no fixed issue price and the price for purchasing on those trading platforms depends on the market value and spread or fees applied.</p> <p>There is no placement agreement in place with third party providers offering crypto-assets placement services.</p> <p>Prospective holders are all persons interested in supporting VeChain project as described in this white paper and participating in VeChain ecosystem by expressing their opinions on the issuer’s strategy and programs.</p> <p>The admission to trading consists in third party crypto-assets service providers allowing users to purchase VET Tokens at market price, plus spreads or trading fees, which are typically paired with other crypto-assets to determine the market value. VET Tokens are already listed on the providers listed below:</p> <p>Coinbase; Crypto.com; Revolut; Upbit; Kucoin; Bitget; BitMart; Binance; Bithumb</p> <p>This is a non-exhausted list. VeChain intends to maintain these listings as long as doing so remains compliant with applicable laws and will continue to seek admission to trading for VET Tokens across future MiCA-compliant trading platforms and service providers.</p>

Part A: Information about the offeror or the person seeking admission to trading

A.1	NAME	VeChain Foundation San Marino S.R.L.
A.2	LEGAL FORM	Limited liability company
A.3	REGISTERED ADDRESS	Strada di Paderna, 2 (47895) Domagnano, San Marino
A.4	HEAD OFFICE	Strada di Paderna, 2 (47895) Domagnano, San Marino
A.5	REGISTRATION DATE	2021-06-07
A.6	LEGAL ENTITY IDENTIFIER	5299001UWKNB61VZCT67
A.7	ANOTHER IDENTIFIER REQUIRED PURSUANT TO APPLICABLE NATIONAL LAW	Not Applicable.
A.8	CONTACT TELEPHONE NUMBER	(+378) 0549 943763 (+39) 366 845 14 34
A.9	E-MAIL ADDRESS	info-sanmarino@vechain.org
A.10	RESPONSE TIME (DAYS)	Under normal circumstances, inquiries are answered within 5 days. For very specific requests, processing may take up to a maximum of 14 days.
A.11	PARENT COMPANY	Not Applicable.
A.12	MEMBERS OF THE MANAGEMENT BODY	Board of Directors: Jie Zhang – President of the BoD and Legal Representative, Strada Di Paderna, 2 (47895) Domagnano, San Marino; Yang LU – Director and CEO, Strada Di Paderna, 2 (47895) Domagnano, San Marino; Renato Grottola – Director, Strada Di Paderna, 2 (47895) Domagnano, San Marino.

Part A: Information about the offeror or the person seeking admission to trading

A.13	BUSINESS ACTIVITY	<p>VeChain Foundation is the curator of VeChainThor Blockchain, a world-leading smart contract platform spearheading the real-world adoption of blockchain technology. VeChain’s aspiration is to multiply individual impact to unleash our collective potential for sustainability. VeChain will actively support and accelerate the engagement in sustainability efforts, leveraging (blockchain) technology to address diverse challenges.</p> <p>VeChain’s main business and professional activities include technological development, consultancy in the field of information technology, database management, hosting and provisioning of application services.</p> <p>The principal markets where VeChain operates include the European Union and other jurisdictions with robust regulatory frameworks for crypto-assets.</p>
A.14	PARENT COMPANY BUSINESS ACTIVITY	Not Applicable.
A.15	NEWLY ESTABLISHED	No.
A.16	FINANCIAL CONDITION FOR THE PAST THREE YEARS	<p>VeChain Foundation San Marino S.R.L. was established on June 7, 2021. Upon incorporation, VET tokens were contributed by shareholders as a reserve. VeChain utilizes these assets to support ongoing operational costs, selling VET tokens as needed to fund activities. With the growing adoption of the VeChainThor Blockchain, VET token prices have appreciated over time, resulting in annual capital gains for VeChain. This robust asset reserve provides a strong foundation for future expansion.</p> <p>The financial statements for the past three years offer a detailed account of VeChain’s financial performance. These statements have been duly filed with the San Marino authority. Notably, there have been no unusual or infrequent events materially affecting VeChain’s operations.</p> <p>Non-financial KPIs include the number of unique addresses and transaction volume. VeChain has experienced growth in the number of unique addresses, along with a corresponding increase in transaction volumes, reflecting the rising use of the VeChainThor Blockchain.</p>
A.17	FINANCIAL CONDITION SINCE REGISTRATION	Reference to point A.16.

Part D: Information about the crypto-asset project

D.1	CRYPTO-ASSET PROJECT NAME	VeChain
D.2	CRYPTO-ASSETS NAME	VeChain Token
D.3	ABBREVIATION	VET
D.4	CRYPTO-ASSET PROJECT DESCRIPTION	VET Tokens is crypto-asset to be classified as “ <i>other non asset-referenced token</i> ” under MiCAR. VET Token is conceived as digital value suitable of being transferred on VeChainThor Blockchain, the proprietary blockchain built by the Company. Users are allowed to transfer VET Tokens on VeChainThor Blockchain to settle transactions.
D.5	DETAILS OF ALL NATURAL OR LEGAL PERSONS INVOLVED IN THE IMPLEMENTATION OF THE CRYPTO-ASSET PROJECT	<p>VeChain Team: Yang Lu, CEO; Antonio Senatore, CTO; Bin Qian, Senior Blockchain Engineer; Tony Li, Senior Full Stack Engineer; Pedro Gomes, Senior Blockchain Engineer; Darren Kelly, Blockchain Developer; Paolo Galli, Full Stack Engineer; Clayton Neal, Head of QA; Leszek Lorek, Senior QA Engineer; Kostas Apostolopoulos, Head of NodeOps; Adam Koyuncu, DevOps Engineer; Hamza Abdullahi, DevOps Engineer; David Oyeku, DevOps Engineer; Neil Brett, Director of Protocol.</p> <p>Third Party: Electi Consulting, Nikolaou Building, Block B, Office 202, Ayias Zonis & Thessalonikis Street Limassol, 3026, Cyprus.</p>
D.6	UTILITY TOKEN CLASSIFICATION	False.
D.7	KEY FEATURES OF GOODS/SERVICES FOR UTILITY TOKEN PROJECTS	Not Applicable.

Part D: Information about the crypto-asset project

<p>D.8</p>	<p>PLANS FOR THE TOKEN</p>	<p>VeChain started with the aspiration to become a platform of choice for blockchain based business applications offering concrete economic, environmental, and societal value.</p> <p>In 2018, VeChain released white paper 1.0, launched the VeChainThor Blockchain, and incorporated basic requirements for enterprise adoption.</p> <p>In 2019, VeChain expanded upon commitment to enable mass blockchain adoption by established businesses, with the long-term goal of creating value and solving real world economic problems.</p> <p>In 2023, VeChain issued white paper 3.0, with the aspiration to multiply individual impact to unleash our collective potential for sustainability and define the blockchain biosphere for sustainability.</p> <p>In 2024, VeChain launch the VeBetter ecosystem to promote collective sustainability actions.</p>
<p>D.9</p>	<p>RESOURCE ALLOCATION</p>	<p>VeChain has secured financial and operational resources to ensure its successful development and implementation. Sufficient funding has been allocated. Additionally, the project benefits from 60 dedicated team members, including experts in key areas like blockchain development, risk, compliance and legal, marketing, etc. Infrastructure, including cloud services, blockchain nodes, partnerships, has also been established to support the project's growth and functionality. These resources ensure the project is well-positioned to achieve its objectives as outlined in this white paper.</p>
<p>D.10</p>	<p>PLANNED USE OF COLLECTED FUNDS OR CRYPTO-ASSETS</p>	<p>Not Applicable.</p>

Part E: Information about the offer to the public of crypto-assets or their admission to trading

E.1	PUBLIC OFFERING OR ADMISSION TO TRADING	Admission to Trading.
E.2	REASONS FOR PUBLIC OFFER OR ADMISSION TO TRADING	By seeking admission to trading of VET Tokens, VeChain aims at allowing any person - who had not the chance to enter VeChain ecosystem at the time of the first initial coin offering dated 2017 - to acquire interests in the VeChain project and actively participate in its tokenization initiative. Admitting VET Tokens to trading has the purpose of giving new stakeholders the chance to purchase the tokens and enter the project or existing stakeholders to increase or liquidate their interests in VeChain. Being admitted to trading on several trading platforms allows enhance VET Tokens' liquidity and chances of being acquired or sold.
E.3	FUNDRAISING TARGET	Not Applicable.
E.4	MINIMUM SUBSCRIPTION GOALS	Not Applicable.
E.5	MAXIMUM SUBSCRIPTION GOAL	Not Applicable.
E.6	OVERSUBSCRIPTION ACCEPTANCE	False.
E.7	OVERSUBSCRIPTION ALLOCATION	Not Applicable.
E.8	ISSUE PRICE	Not Applicable.
E.9	OFFICIAL CURRENCY OR ANY OTHER CRYPTO- ASSETS DETERMINING THE ISSUE PRICE	Not Applicable.
E.10	SUBSCRIPTION FEE	Not Applicable.
E.11	OFFER PRICE DETERMINATION METHOD	Not Applicable.
E.12	TOTAL NUMBER OF OFFERED/TRADED CRYPTO- ASSETS	Not Applicable.
E.13	TARGETED HOLDERS	All.

Part E: Information about the offer to the public of crypto-assets or their admission to trading

E.14	HOLDER RESTRICTIONS	<p>The VET token is not being offered to the public. Instead, it is intended to be admitted for trading on one or more MiCAR-compliant Crypto-Asset Service Providers (CASPs) within the European Union. Holders of the VeChain Tokens must comply with all applicable regulations and requirements established by the relevant CASP(s) to be eligible to purchase and hold the token. These requirements will include, but are not limited to:</p> <ul style="list-style-type: none"> • KYC/AML Compliance: Holders will be required to undergo KYC/AML verification as mandated by the relevant CASP(s) and applicable regulations. • Eligibility Criteria: The relevant CASP(s) will have specific eligibility criteria for their users, which holders of the token must meet. • Geographic Restrictions: The relevant CASP(s) will enforce geographic restrictions in accordance with applicable laws and regulations. • Other Requirements: Holders must adhere to any other terms and conditions, trading rules, or other requirements established by the relevant CASP(s). <p>While the project itself does not impose specific holder restrictions beyond regulatory compliance, prospective holders are advised that they will need to comply with the terms and conditions and policies of any CASP through which they acquire or hold VET tokens. VeChain makes no representations or warranties regarding a user’s eligibility to trade on any CASP. Eligibility is solely determined by the respective CASP(s).</p>
E.15	REIMBURSEMENT NOTICE	Not Applicable.
E.16	REFUND MECHANISM	This white paper does not relate to a public offering of crypto-assets but to their admission to trading. Therefore, rights of reimbursement, withdrawal or refund do not apply.
E.17	REFUND TIMELINE	This white paper does not relate to a public offering of crypto-assets but to their admission to trading. Therefore, rights of reimbursement, withdrawal or refund do not apply.
E.18	OFFER PHASES	Not Applicable.
E.19	EARLY PURCHASE DISCOUNT	Not Applicable.
E.20	TIME-LIMITED OFFER	False.
E.21	SUBSCRIPTION PERIOD BEGINNING	Not Applicable.
E.22	SUBSCRIPTION PERIOD END	Not Applicable.

Part E: Information about the offer to the public of crypto-assets or their admission to trading

E.23	SAFEGUARDING ARRANGEMENTS FOR OFFERED FUNDS/CRYPTO-ASSETS	The withdrawal period does not apply to tokens admitted to trading as per Section 13, paragraph 4, of MiCAR in that VET Tokens are already listed on trading platforms. There is no time-limited offer for VET Tokens.
E.24	PAYMENT METHODS FOR CRYPTO-ASSET PURCHASE	Holders can trade VET Tokens on third party crypto-assets service providers which will be the solely entities entitled to decide the methods of payment to purchase or sell VET Tokens (i.e. versus fiat currencies or other crypto-assets).
E.25	VALUE TRANSFER METHODS FOR REIMBURSEMENT	VET Tokens holders are not entitled to be reimbursed by the issuer.
E.26	RIGHT OF WITHDRAWAL	The withdrawal period does not apply to tokens admitted to trading as per Section 13, paragraph 4, of MiCAR in that VET Tokens are already listed on trading platforms.
E.27	TRANSFER OF PURCHASED CRYPTO-ASSETS	Not Applicable.
E.28	TRANSFER TIME SCHEDULE	Not Applicable.
E.29	PURCHASER'S TECHNICAL REQUIREMENTS	For purchasers to hold VET Tokens in the form of a self-hosted custody, they must be provided with a crypto wallet compatible with VeChainThor Blockchain. A list of compatible wallets can be found in this link: https://vechain.org/solutions/
E.30	CRYPTO-ASSET SERVICE PROVIDER (CASP) NAME	There is no placement agreement in place with any CASP.
E.31	CASP IDENTIFIER	Not Applicable.
E.32	PLACEMENT FORM	Not Applicable.

Part E: Information about the offer to the public of crypto-assets or their admission to trading

E.33	TRADING PLATFORMS NAME	<ul style="list-style-type: none"> • Coinbase • Crypto.com • Revolut • Upbit • Kucoin • Bitget • BitMart • Binance • Bithumb <p>This is a non-exhausted list. VeChain intends to maintain these listings as long as doing so remains compliant with applicable laws and will continue to seek admission to trading for VET Tokens across future MiCAR-compliant trading platforms.</p>
E.34	TRADING PLATFORMS MARKET IDENTIFIER CODE (MIC)	Not Applicable.
E.35	TRADING PLATFORMS ACCESS	Trading platforms where VET Tokens are sought to be admitted to trading have their own web addresses where user can register to benefit from their services. In respect of EU regulated trading platforms, prior identification of users is required according to applicable AML / CFT regulation.
E.36	INVOLVED COSTS	Costs for accessing third party crypto-asset service providers platforms entirely depend on their commercial decisions and possibly subject to increases in the future.
E.37	OFFER EXPENSES	Not Applicable.
E.38	CONFLICTS OF INTEREST	To the best of our knowledge, no conflicts of interest have been identified among the persons involved in the intended admission to trading of the VET token. However, we maintain an internal Conflict of Interest Policy that addresses the identification, disclosure, and resolution of potential conflicts of interest. This policy requires all individuals involved in the project to disclose any potential conflicts and outlines procedures for managing any identified conflicts to ensure the integrity of the project and the fair treatment of all stakeholders.
E.39	APPLICABLE LAW	Irish Law.
E.40	COMPETENT COURT	Courts of Ireland.

Part F: Information about the crypto-assets

F.1	CRYPTO-ASSET TYPE	VET Tokens is a crypto-asset to be classified as “other non asset-referenced token” under MiCAR.
F.2	CRYPTO-ASSET FUNCTIONALITY	<p>VET Tokens are fungible tokens that are native on the VeChainThor Blockchain. VET Tokens are freely transferable between users subject to payment of transaction fees on VeChainThor Blockchain. Transactions on VeChainThor Blockchain are paid, in terms of fees, through a different token issued by VeChain named VTHO Token for which a separate white paper is published.</p> <p>VET Tokens’ main characteristics are the following:</p> <p>Type: VeChainThor Blockchain Native Coin Precision: 18 decimal places The smallest unit of VET Tokens is called "wei": 1 VET = 1,000,000,000,000,000 wei (10¹⁸ wei). Total supply: 86,712,634,466. The total supply of VET is fixed, meaning no new tokens will ever be created. VET Tokens high divisibility (18 decimal places) offers several advantages such as:</p> <ul style="list-style-type: none"> • micropayments, enabling extremely small transactions), • precision, allowing for exact value representation in various use cases, • scalability, supporting a wide range of transaction sizes, from tiny micropayments to large transfers. <p>As better described under Section G of this white paper, VET Tokens grant holders rights to vote on VeChain projects and the assignment of VTHO Tokens according to a predetermined quantity and velocity.</p>
F.3	PLANNED APPLICATION OF FUNCTIONALITIES	Already in place.
F.4	TYPE OF WHITE PAPER	This is a white paper for crypto-assets other than asset-referenced tokens or e-money tokens.
F.5	THE TYPE OF SUBMISSION	New submission.

Part F: Information about the crypto-assets

F.6	CRYPTO-ASSET CHARACTERISTICS	<p>VET Tokens is a crypto-asset to be classified as “<i>other non asset-referenced token</i>” under MiCAR.</p> <p>VET Tokens cannot be mined and have a fixed maximum supply of 86,712,634,466 tokens.</p> <p>VET Tokens holders are entitled to be elected as nodes (“Nodes”) by holding a predefined number of VET Token for a predetermined period. Being appointed as Nodes allows holders to participate in VeChain ecosystem expressing opinions on the underlying project.</p> <p>Being a Node grants holders to certain voting rights, having a voting authority depending on the time the VET Tokens were acquired, the quantity of held tokens and the duration of their holdings. These features are better described in Section G of this white paper.</p> <p>VET Token holders qualifying as Nodes are not granted with decision making powers nor with binding voting rights.</p> <p>Holding VET Tokens for a fixed minimum period also grants holders the assignment of other tokens, named VTHO tokens at a pre-determined velocity and quantity, as better explained in Section G of this white paper. VET Token holders qualifying as Nodes receive additional quantities of VTHO Tokens.</p> <p>In the event of dissolution and liquidation of VeChain, VET Token holders will not be entitled to the distribution of any of liquidation proceeds or VeChain’s assets.</p>
F.7	COMMERCIAL NAME OR TRADING NAME	VeChain Token (VET)
F.8	WEBSITE OF THE ISSUER	http://vechain.org
F.9	STARTING DATE OF OFFER TO THE PUBLIC OR ADMISSION TO TRADING	VET Token has been admitted to trading in trading platforms listed in E.33.
F.10	PUBLICATION DATE	2025-02-28
F.11	ANY OTHER SERVICES PROVIDED BY THE ISSUER	No.
F.12	IDENTIFIER OF OPERATOR OF THE TRADING PLATFORM	Not Applicable.
F.13	LANGUAGE OR LANGUAGES OF THE WHITE PAPER	English

Part F: Information about the crypto-assets

F.14	DIGITAL TOKEN IDENTIFIER CODE USED TO UNIQUELY IDENTIFY THE CRYPTO-ASSET OR EACH OF THE SEVERAL CRYPTO ASSETS TO WHICH THE WHITE PAPER RELATES, WHERE AVAILABLE	NN418T24K
F.15	FUNCTIONALLY FUNGIBLE GROUP DIGITAL TOKEN IDENTIFIER, WHERE AVAILABLE	Not Applicable.
F.16	VOLUNTARY DATA FLAG	Mandatory.
F.17	PERSONAL DATA FLAG	False.
F.18	LEI ELIGIBILITY	Eligible.
F.19	HOME MEMBER STATE	Ireland.
F.20	HOST MEMBER STATES	Austria, Belgium, Bulgaria, Croatia, Republic of Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden.

Part G: Information on the rights and obligations attached to the crypto-assets

G.1

PURCHASER RIGHTS AND OBLIGATIONS

RIGHTS

Rights of assignment of VTHO Tokens: VET Token holders are entitled to receive a certain quantity of the other token issued by VeChain, VTHO Token. VTHO Tokens are meant to be used as transaction fees on VeChainThor Blockchain. The assignment of VTHO Tokens to VET Token holders is conceived to automatically provide VET Token holder to effect transactions on VeChainThor Blockchain with no additional costs.

According to the current VTHO Tokens generation model, for 10,000 VET Tokens there will be 4.32 VTHO generated every $6 \times 60 \times 24 = 8,640$ blocks (24 hours).

Node holder voting rights: VET Token holders qualifying as Nodes are entitled to a certain voting rights:

- changes to the consensus mechanism;
- changes in the VTHO tokens generation.

For detail information about nodes, please refer to: <https://docs.vechain.org/core-concepts/nodes>.

X Node holder reward right: VET Token holders qualifying as X-Nodes are entitled to receive additional VTHO tokens as a reward. User must claim their respective reward at <https://app.rewards.vechain.org/>.

OBLIGATIONS

Obligations of holders: VET Token holders must comply with certain obligations to exercise their rights. In particular, to be appointed as Nodes, they must hold the required amount of VET with a certain period, refer to: <https://docs.vechain.org/core-concepts/nodes> for details.

Applying for Authority Masternodes requires candidates to meet hardware, software requirement and complete the identification verification process.

Additionally, all holders of VET Tokens must observe all legislation applicable to them, which shall include but not be limited to, for example, strictly and absolutely refraining from allowing VET Tokens to be used for money laundering, terrorism financing, or any other financial crimes.

Part G: Information on the rights and obligations attached to the crypto-assets

<p>G.2</p>	<p>EXERCISE OF RIGHTS AND OBLIGATIONS</p>	<p>Authority Nodes</p> <ul style="list-style-type: none"> • Apply to become an Authority node that validates and proposes blocks in the VeChainThor blockchain. • Authority node operators are subject to KYC procedures. • Operate infrastructure meeting the minimum specified requirements. • Hold the required amount of VET in a wallet, 25 million VET. • Entry as an Authority node is subject to being voted in by 3 of 5 of the steering committee. • A total of 101 Authority nodes can exist within the network. <p>XNodes and Economic Nodes:</p> <ul style="list-style-type: none"> • Hold the required amount of VET in a wallet for the specific node type being applied for. • Apply for an economic node based on your VET holdings or purchase one off the secondary market. • If the quantity of VET held in your wallet drops below the required amount your node status is revoked. • Nodes can be upgraded to the next tier level once the VET holding quantity for that tier is achieved. Upgrade is subject to a maturity period. • The Rewards application https://app.rewards.vechain.org enables all Economic and XNode interactions.
<p>G.3</p>	<p>CONDITIONS FOR MODIFICATIONS OF RIGHTS AND OBLIGATIONS</p>	<p>VeChain reserves the right to amend these rights and obligations from time to time and will inform its customers of such changes through amendments of this white paper and through any other channel of communication, including VeChain Website.</p> <p>As provided by Article 51 of MiCAR regulation, any significant new factor, any material mistake or any material inaccuracy that would be capable of affecting the assessment of VET Tokens will be described in a modified version of this white paper and notified to the competent authorities and published on VeChain website.</p>
<p>G.4</p>	<p>FUTURE PUBLIC OFFERS</p>	<p>Not Applicable.</p>
<p>G.5</p>	<p>ISSUER RETAINED CRYPTO-ASSETS</p>	<p>5 billion.</p>
<p>G.6</p>	<p>UTILITY TOKEN CLASSIFICATION</p>	<p>False.</p>
<p>G.7</p>	<p>KEY FEATURES OF GOODS/SERVICES OF UTILITY TOKENS</p>	<p>Not Applicable.</p>
<p>G.8</p>	<p>UTILITY TOKENS REDEMPTION</p>	<p>Not Applicable.</p>

Part G: Information on the rights and obligations attached to the crypto-assets

G.9	NON-TRADING REQUEST	VET token is currently available for trading in compliant exchanges as indicated in E.33.
G.10	CRYPTO-ASSETS PURCHASE OR SALE MODALITIES	Not Applicable.
G.11	CRYPTO-ASSETS TRANSFER RESTRICTIONS	No restrictions apply to the transfer of VET Tokens.
G.12	SUPPLY ADJUSTMENT PROTOCOLS	False.
G.13	SUPPLY ADJUSTMENT MECHANISMS	Not Applicable.
G.14	TOKEN VALUE PROTECTION SCHEMES	False.
G.15	TOKEN VALUE PROTECTION SCHEMES DESCRIPTION	Not Applicable.
G.16	COMPENSATION SCHEMES	False.
G.17	COMPENSATION SCHEMES DESCRIPTION	Not Applicable.
G.18	APPLICABLE LAW	Irish Law.
G.19	COMPETENT COURT	Courts of Ireland.

Part H: information on the underlying technology

<p>H.1</p>	<p>DISTRIBUTED LEDGER TECHNOLOGY</p>	<p>VET token is the native token on the VeChainThor Blockchain, which is a public, decentralized blockchain that ensures security and transparency through its robust and proven network.</p>
<p>H.2</p>	<p>PROTOCOLS AND TECHNICAL STANDARDS</p>	<p>VeChain utilizes industry-standard protocols and technical standards to ensure secure holding, storing and transferring of the token.</p> <p>For holding and storing VET, VeChain supports the following industry standards for wallet creation: BIP-32 (Hierarchical Deterministic Wallets), BIP-39 (Mnemonic Seed Phrase) and BIP-44 (Multi-account Hierarchy for Deterministic Wallets). Wallet technology relies on cryptographic algorithms for the custody of crypto assets, involving the generation and management of public and private keys. Public keys allow users to receive tokens, while private keys are used to authorize transactions and access the tokens. Secure storage solutions include software wallets, hardware wallets, multi-signature accounts, and accounts managed by multi-party computing.</p> <p>The transfer of VET tokens is facilitated through the underlying blockchain protocols, which employ cryptographic techniques to secure transactions, which are used so that integrity and immutability can be ensured. Transactions are validated and recorded directly on the blockchain, providing a transparent and tamper-proof ledger of all token transfers.</p>
<p>H.3</p>	<p>TECHNOLOGY USED</p>	<p>VeChain blockchain uses Proof of Authority consensus mechanisms to validate transactions securely and efficiently.</p> <p>VeChain uses several industry standard cryptographic functions such as Elliptic Curve Digital Signature Algorithm (ECDSA) for the creation and verification of digital signatures. The hash function Blake2b-256 is used to secure data storage, address generation and signature verification.</p>

Part H: information on the underlying technology

<p>H.4</p>	<p>CONSENSUS MECHANISM</p>	<p>VeChainThor Blockchain is governed by Proof of Authority consensus mechanism ("PoA"). Under the PoA, only AMs (authority masternodes) have the authority to validate transactions and add those to the blockchain blocks. The PoA consensus mechanism initially operated as follows:</p> <ul style="list-style-type: none"> • the VeChainThor Blockchain adds a block every n seconds (currently, every 10 seconds); • each available AM has equal chances of being selected as validator of the block based on a deterministic pseudo-random process ("DPRP") that classifies AM as active or inactive. Only active nodes can be selected to produce and/or validate a block; • the identification of the AM deemed to be selected as "relatively far" future block validator is quite hard based on the DPRP, this granting a sufficient protection from malicious attacks; • the mechanism allows an AM to skip producing a block to enhance unpredictability of the validators' sequence; • in case of fork, the valid (better) branch is that where more AM were active at the time of the last block validation; • in case of an attack or disruption, PoA does not require that the majority of the AM is available in order to validate a block. <p>In November 2021 and November 2022 VeChain implemented upgrades to the PoA to improve security and safeguards against malicious attacks and enhance velocity of transactions' confirmation. PoA 2.0 implemented the following changes:</p> <ul style="list-style-type: none"> • a Per-Epoch VRF-Based Random Beacon generation mechanism was introduced to improve the unpredictability of PoA, which is sufficient in practice to prevent adaptive corruption attack. • a "finality gadget", namely Finality with One Bit (FOB), based on a state-of-the-art consensus algorithm, was introduced to enhance the consistency and finality of blockchain transactions within Nakamoto consensus algorithms.
<p>H.5</p>	<p>INCENTIVE MECHANISMS AND APPLICABLE FEES</p>	<p>All transactions effected on VeChainThor Blockchain are paid through VTHO Tokens. Nodes empowered to validate transactions (only AMs) are rewarded through the assignment of 30% of VTHO Tokens paid by the actors of the transaction. The remaining 70% is burnt.</p> <p>The rewarding mechanism, together with the supervision by VeChain on the actions performed by the validating Nodes, strongly improves the security of transactions and disincentivize malicious actions by Nodes.</p>
<p>H.6</p>	<p>USE OF DISTRIBUTED LEDGER TECHNOLOGY</p>	<p>VET is fully issued, transferred, and stored on the VeChainThor blockchain, a public and decentralized distributed ledger technology.</p>

Part H: information on the underlying technology

H.7	DLT FUNCTIONALITY DESCRIPTION	<p>Decentralization: The VeChainThor blockchain is a decentralized network operated by 101 authority master nodes. There is no central operator or control point.</p> <p>Transparency and Immutability: Transactions on the VeChainThor blockchain are transparent and recorded on a public, immutable ledger accessible to all users.</p> <p>Security: The VeChainThor blockchain is secure against manipulation and attacks through cryptographic methods. Each transaction is verified and confirmed by the network's validators.</p>
H.8	AUDIT	Yes.
H.9	AUDIT OUTCOME	<p>Slow Mist Security Team conducted smart contract security audit and concluded that the contract does not have overflow or the race conditions issue. The audit has shown no critical, high, medium and low issues. Information on the outcomes of the audit can be found at https://github.com/slowmist/Knowledge-Base/blob/master/open-report/VeChainThorNodeToken-Smart-Contract-Security-Audit-Report.md</p>

Part I: Information on risks

I.1

OFFER-RELATED RISKS

VET Tokens will be admitted to trading on third party crypto-assets service providers. This entails a number of trading risks specified below:

Price fluctuations: The price of VET Tokens on third-party crypto-asset service providers and their liquidity may not develop as expected. In particular, market trading volumes on these platforms may increase or decrease unexpectedly, resulting in sudden price swings, reduced liquidity, or price drops.

Delisting / Suspension from trading: Third-party crypto-asset service providers or the issuer may decide, at their discretion, to delist VET Tokens in total or in part, resulting in reduced market liquidity and difficulties in selling the tokens. Additionally, certain third-party crypto-asset service providers on which the issuer intends to list VET Tokens may decide not to apply for a MiCAR license, be denied a MiCAR license, or lose the license at a later stage. This could result in a potential temporary or definitive closure of trading of VET Tokens on those platforms.

Jurisdictional limitations: Third-party crypto-asset service providers may also decide to limit the trading of VET Tokens or products having VET Tokens as underlying assets for certain customers due to jurisdictional restrictions.

Part I: Information on risks

I.2

ISSUER-RELATED RISKS

VeChain, the issuer of VET Tokens, is subject to several risks that could impact the stability and reliability of VET Tokens.

Regulatory Risks: the crypto-assets regulatory landscape is constantly evolving in many jurisdictions including EU. Compliance with varying regulatory requirements across different jurisdictions can be complex and may lead to operational challenges or legal liabilities if not properly managed.

Third-party Risks: VeChain relies on third parties to provide services that are important to VeChainThor Blockchain and VET Tokens. Potential disruptions, cyber incidents, or contractual non-compliance issues may arise with such third parties.

Operational Risks: the efficient functioning of VeChain relies on robust internal processes and systems. Any failures or disruptions in these processes, including human errors, system failures, or inadequate internal controls, could adversely affect the issuance and transferability of VET Tokens.

Technological Risks: The technology underlying VET Tokens, including smart contracts and VeChainThor Blockchain, is subject to vulnerabilities, cyber threats or potential delays in transactions' processing. Although VeChainThor Blockchain and its consensus mechanism is designed to reduce to the maximum extent possible the risk of malicious attacks being successful, there is always a risk that this may happen.

Financial Risks: any financial instability of VeChain, such as liquidity issues or insolvency, shall not impact the VET Tokens directly but in any case, affect their value in consequence of the possible discontinuation of the project.

Reputational Risks: any negative publicity, whether due to regulatory actions, security breaches, or operational failures, could harm the company's reputation and reduce confidence among token holders and the broader market.

Compliance Risks: Ensuring ongoing compliance with any and all applicable legislation is essential for legal and operational integrity. Failure to effectively implement and monitor compliance procedures could result in legal penalties and damage to VeChain's reputation.

Environmental, Social, and Governance (ESG) Risks: regulatory attention to ESG factors is constantly increasing worldwide. Even though VeChain takes into careful account ESG compliance and the PoA consensus mechanism governing VeChainThor Blockchain significantly reduces environmental impact, any failure to adhere to sustainable and ethical practices could impact the reputation and operations of VeChain, including the operations effected on VeChainThor Blockchain governance practices.

Part I: Information on risks

<p>I.3</p>	<p>CRYPTO-ASSETS-RELATED RISKS</p>	<p>VET Tokens entails a number of risks attached, namely:</p> <p>Redemption: The issuer does not guarantee the right of redemption of VET Tokens versus fiat currency or other crypto-assets. Potential delisting or limitations in trading on third party crypto-assets service providers may increase holding periods and expose holders to price fluctuations. Moreover, VET Tokens may not be immediately payable.</p> <p>Financial Returns: Holding VET Tokens grants VTHO tokens, but these are not guaranteed financial returns. The issuer may limit or suspend VTHO token assignments, which are also subject to price fluctuations.</p> <p>Loss of Access to Tokens: Secure management of private keys is essential for accessing cryptocurrencies. Users should therefore rely on proven wallets and custody services to minimize the risk of loss.</p>
<p>I.4</p>	<p>PROJECT IMPLEMENTATION-RELATED RISKS</p>	<p>The issuer is a leading ICT player in the blockchain ecosystem, having developed a proprietary public blockchain named VeChainThor Blockchain which has been used since 2015 to support blockchain-based business applications offering real economic and social value. The issuer considers existing the following risks related to the project:</p> <p>Lack of or Insufficient Business Utilization: VeChainThor Blockchain has been used as a platform for third party businesses to manage and transact commodities, products, services, assets and funds in different jurisdictions. Despite the high potential and reliability of VeChainThor Blockchain as experimented in the past, the issuer cannot guarantee that the infrastructure will continue to be used by third party businesses in a constant manner. In case of lacking or sufficient businesses using VeChainThor Blockchain, the issuer may decide to discontinue the project.</p>
<p>I.5</p>	<p>TECHNOLOGY-RELATED RISKS</p>	<p>VeChainThor Blockchain Risks: VET Tokens are transacted on VeChainThor Blockchain only, which – similarly to other blockchains – may be subject to technical vulnerabilities and be exposed to attacks (<i>i.e.</i> for example 51% attack and creation of untrue forks) that could potentially undermine the transactions being processed or alter the history of the transactions.</p> <p>Smart Contract Risks: smart contracts are commonly used on VeChainThor Blockchain. Similarly to other blockchains, smart contracts may be exposed to technical vulnerabilities and exploitations that could lead to losses for holders.</p> <p>Settlement Finality and Irrevocability Transactions: VET Tokens transactions may be irreversible. Holders sending VET Tokens to non-existing addresses, unwilled or wrong addresses or addresses of an entity not in possession of the private keys may lose in whole or part VET Tokens and be unable to reverse the transaction or recover VET Tokens.</p> <p>System Continuity: in some limited case, when no validator node is active, the VeChainThor Blockchain may experiment a halt in processing transactions.</p> <p>Unanticipated Risks: blockchain technology and tokens are a relatively new and untested technologies. In addition to the risks included in this section, there might be other risks that cannot be foreseen. Additional risks may also materialize as unanticipated variations or combinations of the risks discussed within this section.</p>

Part I: Information on risks

I.6

MITIGATION MEASURES

VeChain has set up a professional team to identify, assess, monitor and mitigate risks associated with its business activities, operations, and blockchain technologies.

Regulatory Risks: continuous monitoring of regulatory changes and maintaining a robust team to ensure compliance across EU and other jurisdictions.

Third-party Risks: third party management process is in place to ensure specific clauses in agreements with third party providers aiming at minimizing the risk of sudden discontinuation of services.

Operational Risks: comprehensive training programs for employees, and the implementation of advanced internal control systems.

Technological Risks: regular security audits, continuous monitoring for vulnerabilities, and employing state-of-the-art cybersecurity measures. VeChainThor Blockchain has implemented a sophisticated PoA consensus mechanism to minimize the risks of sybil attack (51%), by (i) splitting the transactions validation into different phases to ensure that majority of nodes validate previously endorsed transactions (ii) creating an unpredictable mechanism of selection of validating nodes, so that malicious attackers are unable to anticipate which node will be appointed to validate future transactions.

Financial Risks: maintaining a robust reserve management strategy and professional financial management to ensure transparency and stability.

Reputational Risks: proactive public relations strategies and effective communication channels to manage and mitigate any negative publicity.

Compliance Risks: regular compliance reviews and stringent internal compliance protocols.

Environmental, Social, and Governance (ESG) Risks: Implementing sustainable business practices, ensuring transparency in governance, and actively participating in social responsibility initiatives. PoA consensus mechanism governing the validation process on VeChainThor Blockchain has a very low environmental impact in that it does not require computational effort on the part of validating nodes.

Lack of or insufficient businesses utilizing VeChainThor Blockchain: VeChain destines a significant number of resources to advertisement and marketing activities, by also sponsoring major sport events. This should allow VeChain to keep a high visibility on the market.

J: Information on the sustainability indicators in relation to adverse impact on the climate and other environment-related adverse impacts

<p>J.1</p>	<p>ADVERSE IMPACTS ON CLIMATE AND OTHER ENVIRONMENT-RELATED ADVERSE IMPACTS</p>	<p>Energy</p> <ul style="list-style-type: none"> • Energy consumption 23,329.95 kWh • Renewable energy consumption 26.6% • Energy intensity 0.000023 kWh <p>GHG emissions</p> <ul style="list-style-type: none"> • Scope 1 – Controlled 0 • Scope 2 – Purchased 9.97t • GHG intensity: 0.0000096161 kg <p>Waste production</p> <ul style="list-style-type: none"> • Generation of waste electrical and electronic equipment (WEEE): 0.286t • Non-recycled WEEE ratio: 58.75% • Generation of hazardous waste: 0.00014t <p>Natural resources</p> <ul style="list-style-type: none"> • Impact of the use of equipment on natural resources: 142.96 kiloliters water usage
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Strada di Paderna, 2 (47895) Domagnano, San Marino
vechain.org

VET **VECHAIN TOKEN WHITEPAPER**

White paper under Title II, Article 4 of Regulation (EU) 2023/1114 (“MiCAR”) for the admission to trading on crypto-asset service providers platforms authorized under Section 59 of MiCAR