

Plume (PLUME)
White paper

In accordance with Title II of Regulation (EU) 2023/1114 (MiCA)

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01	Date of notification	2025-06-26
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 operator of the trading platform 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	false
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. The crypto-asset referred to in this white paper is not covered by the deposit guarantee schemes under Directive 2014/49/EU of the European Parliament and of the Council.
Summary		
07	Warning in accordance with Article 6(7), second subparagraph of Regulation (EU) 2023/1114	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 admission to trading 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.
08	Characteristics of the crypto-asset	PLUME is a fungible token created for use within the Plume Network ecosystem. Issued as an ERC-20 asset on Ethereum, it has a fixed supply of 10 billion tokens and can be bridged 1-for-1 to the Plume Layer-2 chain built on

		<p>Arbitrum technology. Holders may use PLUME to pay network fees on the L2, access advanced protocol features, and participate in community-driven governance and incentive programs.</p> <table><tr><th>Category</th><th>Allocation</th></tr><tr><td>Community, Ecosystem & Foundation</td><td>59%</td></tr><tr><td>Early Backers</td><td>21%</td></tr><tr><td>Core Contributors</td><td>20%</td></tr></table> <p>PLUME tokens are freely transferable, in whole or in part, and all accompanying usage rights and obligations follow the token upon transfer.</p>	Category	Allocation	Community, Ecosystem & Foundation	59%	Early Backers	21%	Core Contributors	20%
Category	Allocation									
Community, Ecosystem & Foundation	59%									
Early Backers	21%									
Core Contributors	20%									
09	Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability	N/A								
10	Key information about the offer to the public or admission to trading	Kraken seeks admission to trading of the PLUME token so as to be compliant with MiCA and in keeping with its mission to make available for trading to its clients a wide range of assets.								
Part I – Information on risks										
I.1	Offer-Related Risks	<p>General Risk Factors Associated with Crypto-Asset Offerings</p> <p>The admission to trading of crypto-assets, including PLUME, is subject to general risks inherent to the broader cryptocurrency market.</p> <p>Market Volatility</p> <p>The value of PLUME may experience substantial fluctuations driven by investor sentiment, macroeconomic developments, and market conditions.</p> <p>Regulatory Risks</p> <p>Changes in legislation, applicable laws, compliance requirements or the implementation of new regulatory frameworks could affect the availability, trading, or use of such assets.</p> <p>Security Risks</p> <p>The risk of exploitation, hacking or security vulnerabilities of the underlying</p>								

		<p>protocol and/or contracts of the token leading to a loss.</p> <p>Reputational Risks The potential for damage to an organization's credibility or public trust, which can negatively impact stakeholder confidence and overall business viability.</p>
I.2	Issuer-Related Risks	<p>Operational & Legal Risks The Plume Foundation's success depends on a small team (key person risk). If founders or key developers leave, the project could be adversely affected. The Foundation is based in the Cayman Islands, which may pose governance and enforceability risks for investors (Cayman law may offer limited recourse to token holders). The issuer faces regulatory compliance challenges, especially dealing with real-world assets, any legal issue (e.g., failing to meet AML/KYC obligations or securities laws in asset tokenization) could impact the project's viability. The Foundation's financial resources are finite; if project costs exceed their budget or if expected ecosystem adoption does not materialize, the issuer may have to curtail operations. There is also no guarantee of ongoing support, as a foundation, its continued operation depends on its token treasury value and ability to foster a sustainable ecosystem.</p>
I.3	Crypto-Assets-related Risks	<p>Token Value & Utility Risks PLUME's value is not backed by any tangible asset or guarantee; its price is driven purely by market demand. This means the token could lose significant value if the project underperforms or market sentiment turns negative. Investors have no dividend or income from holding PLUME, so their return relies on price appreciation which is uncertain.</p> <p>Concentration risk The Foundation and early investors hold a large portion of tokens, and their actions (e.g., selling after lock-up) could depress the price. The token's utility is linked to network usage, if adoption of the Plume Network is low, demand for PLUME may remain weak.</p> <p>Market Volatility: The crypto-asset market is subject to significant price volatility, which may affect the value of PLUME. Prices can fluctuate rapidly and unpredictably due to various factors, including market sentiment, economic indicators, technological developments, regulatory news, and macroeconomic trends. This high level of volatility may lead to sudden gains or losses and can impact the liquidity and tradability of the crypto-asset.</p> <p>Liquidity: Liquidity refers to the ability to buy or sell a crypto-asset without causing significant price impact. PLUME may experience periods of low liquidity, meaning that it could be difficult to enter or exit positions at desired prices or</p>

		<p>volumes. Reduced liquidity may result from limited market participation, exchange restrictions, or broader market conditions. This can lead to increased price volatility, slippage, and difficulty in executing transactions.</p> <p>Cybersecurity & Technology Risks: Risks arising from vulnerabilities in the blockchain technology used by the project or platforms. Example risks include smart contract exploits, compromise of platforms, forking scenarios, compromise of cryptographic algorithms.</p> <p>Adoption Risks: The risk associated with the project not achieving its goals leading to lower than expected adoption and use within the ecosystem, the impact leading to a reduced utility and value proposition.</p> <p>Custody & Ownership Risk: The risk related to the inadequate safekeeping and control of crypto-assets e.g. loss of private keys, custodian insolvency leading to a loss.</p> <p>Adoption and Utility Risk: The value of PLUME is directly linked to the adoption of the PLUMEdchain network. If users and developers do not continue to utilize PLUMEdchain as expected, for example, if fewer decentralized applications (dApps) launch or user activity declines, demand for PLUME could decrease, negatively impacting its value and utility.</p>
I.4	Project Implementation-Related Risks	<p>Execution & Adoption Risks Plume's success depends on integrating real-world assets onto the blockchain, this requires partnerships with asset originators and compliance with financial regulations. There is a risk that necessary partnerships (with banks, asset issuers, or oracles) do not materialize or fail, limiting the inventory of RWAs on Plume. Regulatory bodies could also intervene if certain tokenized assets are deemed unlawful, impacting the project's core offering. The project roadmap is ambitious; delays or technical difficulties (for instance in developing the Arc tokenization engine or achieving cross-chain interoperability) could reduce confidence and slow adoption.</p> <p>Competitive risk The RWA tokenization space is growing; Plume faces competition from other networks, which could capture market share or developer mindshare. If Plume fails to achieve significant adoption by asset issuers or DeFi platforms, the project may not generate the network effects needed for sustainability.</p>
I.5	Technology-Related Risks	<p>Security & Network Risks Despite audits, smart contracts and blockchain systems can have unknown bugs or vulnerabilities; an exploit in Plume's contracts or bridge could lead to</p>

		<p>loss of funds or system downtime. The Layer-2 relies on Ethereum's security, if Ethereum faces a serious attack or network failure, Plume could be impacted (e.g., delays in finalizing transactions). Plume's use of Arbitrum technology introduces reliance on the security of the Arbitrum Nitro codebase; any flaw in the optimistic rollup protocol (such as a failed fraud proof challenge mechanism) could undermine Plume's ledger integrity.</p> <p>Smart contract risks: PLUME uses smart contracts to facilitate automated transactions and processes. While these contracts enhance efficiency and decentralization, they also introduce specific technical risks. Vulnerabilities such as coding errors, design flaws, or security loopholes within the smart contract code may be exploited by malicious actors. Such exploits could result in the loss of assets, unauthorized access to sensitive information, or unintended and irreversible execution of transactions.</p> <p>Oracle and data risk Plume's RWA valuations and compliance depend on off-chain data (through Nexus); if oracles provide incorrect data or are compromised, it could lead to mispricing or illegitimate assets on-chain.</p> <p>Risk of Cryptographic Vulnerabilities Technological advancements, such as quantum computing, could pose potential risks to cryptocurrencies.</p> <p>Privacy Transactions involving PLUME are recorded on a public blockchain, where transaction data is transparent and permanently accessible. While public addresses do not directly reveal personal identities, transaction histories can be analyzed and, in some cases, linked to individuals through data aggregation or external information sources. This transparency may pose privacy concerns for users seeking confidentiality in their financial activity. Participants should be aware that transaction data on public blockchains is not inherently private and could be subject to scrutiny by third parties, including regulators, analytics firms, or malicious actors.</p>
I.6	Mitigation measures	<p>The Plume project has taken several steps to mitigate technical and operational risks.</p> <p>Security Audits: The Plume smart contracts have undergone security auditing by several firms. This audit process helps identify and address potential vulnerabilities before deployment, thereby reducing the risk of smart contract failures or exploits. The project team has indicated that audit reports will be made available for</p>

		<p>transparency.</p> <p>Proven Frameworks By building on Arbitrum's established technology, Plume leverages a battle-tested platform and inherits security improvements from that ecosystem.</p> <p>Compliance Controls Plume has integrated AML/KYC checks for RWA token issuers and uses legal frameworks to ensure assets are compliant, reducing legal risk in asset onboarding.</p> <p>Gradual Decentralization The Foundation is phasing in governance to involve the community in oversight, which can improve decision-making and transparency.</p>
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Part A - Information about the offeror or the person seeking admission to trading		
A.1	Name	N/A
A.2	Legal form	N/A
A.3	Registered address	N/A
A.4	Head office	N/A
A.5	Registration Date	N/A
A.6	Legal entity identifier	N/A
A.7	Another identifier required pursuant to applicable national law	N/A
A.8	Contact telephone number	N/A
A.9	E-mail address	N/A
A.10	Response Time (Days)	N/A
A.11	Parent Company	N/A
A.12	Members of the Management body	N/A
A.13	Business Activity	N/A
A.14	Parent Company Business Activity	N/A
A.15	Newly Established	N/A

A.16	Financial condition for the past three years	N/A
A.17	Financial condition since registration	N/A
Part B - Information about the issuer, if different from the offeror or person seeking admission to trading		
B.1	Issuer different from offeror or person seeking admission to trading	true
B.2	Name	Plume Foundation
B.3	Legal form	Foundation
B.4	Registered address	c/o MetaBase58 Cayman Limited, 71 Fort Street, PO Box 10035, George Town, Grand Cayman KY1-1001, Cayman Islands
B.5	Head office	N/A
B.6	Registration Date	Not available
B.7	Legal entity identifier	Not available
B.8	Another identifier required pursuant to applicable national law	Not available
B.9	Parent Company	N/A
B.10	Members of the Management body	Not available
B.11	Business Activity	Development and operation of the Plume Network blockchain platform for real-world asset tokenization and related services. The Foundation oversees the Plume ecosystem's growth, governance, and compliance efforts (providing a blockchain protocol and supporting infrastructure for RWA finance).
B.12	Parent Company Business Activity	N/A
Part C- Information about the operator of the trading platform in cases where it draws up the crypto-asset white paper and information about other persons drawing the crypto-asset white paper pursuant to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114		
C.1	Name	Payward Global Solutions LTD
C.2	Legal form	N/A
C.3	Registered address	N/A
C.4	Head office	N/A
C.5	Registration Date	11-07-2023

C.6	Legal entity identifier of the operator of the trading platform	9845003D98SCC2851458		
C.7	Another identifier required pursuant to applicable national law	N/A		
C.8	Parent Company	N/A		
C.9	Reason for Crypto-Asset White Paper Preparation	Kraken seeks admission to trading of the PLUME token so as to be compliant with MiCA and in keeping with its mission to make available for trading to its clients a wide range of assets.		
C.10	Members of the Management body			
		Full Name	Business Address	Function
		Shannon Kurtas	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Andrew Mulvenny	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Shane O'Brien	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Laura Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Michael Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
C.11	Operator Business Activity	PGSL is the operator of a Trading Platform for Crypto Assets, in accordance with Article 3(1)(18) of Regulation (EU) 2023/1114 (MiCA).		
C.12	Parent Company Business Activity	<p>Payward, Inc., a Delaware, USA corporation, is the parent company of a worldwide group of subsidiaries (the following paragraphs use the term "Payward" or "Payward Group" to refer to the group) collectively doing business as "Kraken." Payward's primary business is the operation of an online virtual asset platform that enables clients to buy and sell virtual assets on a spot basis, including the transfer of crypto-assets to and from external wallets.</p> <p>Payward, through its various affiliates, offers a number of other services and products, including:</p> <ul style="list-style-type: none">* A trading platform for futures contracts on virtual assets ("Kraken Derivatives");* A platform for buying and selling NFTs;* An over-the-counter ("OTC") desk;		

		<ul style="list-style-type: none"> * Extensions of margin to support spot trading of virtual assets; * A benchmark administrator; and * Staking services.
C.13	Other persons drawing up the crypto-asset white paper according to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	N/A
C.14	Reason for drawing the white paper by persons referred to in Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	N/A
Part D- Information about the crypto-asset project		
D.1	Crypto-asset project name	Plume
D.2	Crypto-assets name	Plume
D.3	Abbreviation	PLUME
D.4	Crypto-asset project description	Plume Network is a modular Layer-2 blockchain optimized for real-world assets (RWA). The project's mission is to bridge traditional finance and DeFi by enabling tokenization of real-world assets and integrating them into on-chain financial applications. Plume provides a full-stack platform to facilitate secure, compliant asset tokenization. The PLUME token and the network infrastructure together create an ecosystem for RWA finance (RWAfi), where tangible assets can be transferred, used as collateral, and traded in a transparent and efficient manner.
D.5	Details of all natural or legal persons involved in the implementation of the crypto-asset project	Key Team and Contributors: Plume is developed and maintained by the Plume Foundation's core team and partners. Principal team members include Christopher Yin (CEO), Teddy Pornprinya (CBO), and Eugene Shen (CTO). These individuals lead the project's strategy, business development, and technology, respectively.
D.6	Utility Token Classification	false
D.7	Key Features of Goods/Services for Utility Token Projects	N/A

D.8	Plans for the token	<p>As per the project team, Plume has a long-term roadmap to expand the RWA ecosystem. These hases include:</p> <ul style="list-style-type: none"> • Crypto-Native Foundations (2024–2025) – establishing the core RWA tokenization framework and early adopter use-cases; • RWA Market Expansion (2025–2026) – supporting additional asset classes and broader DeFi participation; and • Traditional Finance Integration (2026+) – building bridges between DeFi and institutional finance through partnerships. <p>Future plans include cross-chain interoperability and more DeFi applications on Plume.</p>
D.9	Resource Allocation	<p>Token Allocation: 59% is allocated to the Community, Ecosystem & Foundation (for grants, community incentives, validator rewards, liquidity provision).</p> <p>Financial Resources: The Foundation controls the largest share (for ongoing development and ecosystem support), while early backers provided capital and the team’s portion incentivizes long-term commitment.</p> <p>Beyond this, a \$20M funding round took place in Q4 2024.</p>
D.10	Planned Use of Collected Funds or Crypto-Assets	N/A

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	ATTR
E.2	Reasons for Public Offer or Admission to trading	Making secondary trading available to the consumers on the Kraken Trading platform in compliance with the MiCA regulatory framework
E.3	Fundraising Target	N/A
E.4	Minimum Subscription Goals	N/A
E.5	Maximum Subscription Goal	N/A
E.6	Oversubscription Acceptance	N/A
E.7	Oversubscription Allocation	N/A
E.8	Issue Price	N/A

E.9	Official currency or other crypto-assets determining the issue price	N/A
E.10	Subscription fee	N/A
E.11	Offer Price Determination Method	N/A
E.12	Total Number of Offered/Traded crypto-assets	
E.13	Targeted Holders	ALL
E.14	Holder restrictions	N/A
E.15	Reimbursement Notice	N/A
E.16	Refund Mechanism	N/A
E.17	Refund Timeline	N/A
E.18	Offer Phases	N/A
E.19	Early Purchase Discount	N/A
E.20	time-limited offer	N/A
E.21	Subscription period beginning	N/A
E.22	Subscription period end	N/A
E.23	Safeguarding Arrangements for Offered Funds/crypto-assets	N/A
E.24	Payment Methods for crypto-asset Purchase	N/A
E.25	Value Transfer Methods for Reimbursement	N/A
E.26	Right of Withdrawal	N/A
E.27	Transfer of Purchased crypto-assets	N/A
E.28	Transfer Time Schedule	N/A

E.29	Purchaser's Technical Requirements	N/A
E.30	crypto-asset service provider (CASP) name	N/A
E.31	CASP identifier	N/A
E.32	Placement form	NTAV
E.33	Trading Platforms name	N/A
E.34	Trading Platforms Market Identifier Code (MIC)	N/A
E.35	Trading Platforms Access	N/A
E.36	Involved costs	N/A
E.37	Offer Expenses	N/A
E.38	Conflicts of Interest	All listings decisions made by Payward Global Solution Ltd are made independently by staff of the entity in line with internal policies. PGSL publishes a conflicts of interest disclosure on its website advising of potential conflicts that may arise.
E.39	Applicable law	Any dispute relating to this white paper shall be governed by and construed and enforced in accordance with the laws of Ireland without regard to conflict of law rules or principles (whether of Ireland or any other jurisdiction) that would cause the application of the laws of any other jurisdiction, irrespective of whether PLUME tokens qualify as right or property under the applicable law.
E.40	Competent court	Any disputes or claims arising out of this white paper will be subject to the exclusive jurisdiction of the Irish courts.

Part F - Information about the crypto-assets

F.1	Crypto-Asset Type	PLUME is classified as a crypto-asset other than an asset referenced token or e-money token under MiCA, (EU) 2023/1114.
F.2	Crypto-Asset Functionality	Core Functionality: PLUME's primary functionality is to enable holders to (1) participate in the network's governance and security (by staking PLUME to support the network and voting on protocol proposals), and (2) utilize Plume's real-world asset platform services (using PLUME to pay transaction fees and engage with on-chain RWA applications, while earning incentive rewards for participation). PLUME acts as the primary token of the Plume ecosystem: holding it grants users access to the network's services and a voice in its governance and development.

F.3	Planned Application of Functionalities	Governance is not live yet. Governance will allow holders to participate in decision-making and help shape the future direction of the Plume ecosystem.
A description of the characteristics of the crypto-asset, including the data necessary for classification of the crypto-asset white paper in the register referred to in Article 109 of Regulation (EU) 2023/1114, as specified in accordance with paragraph 8 of that Article		
F.4	Type of white paper	OTHR
F.5	The type of submission	NEWT
F.6	Crypto-Asset Characteristics	PLUME allows holders to access network services and governance (voting) rights in the Plume ecosystem, and holders can transfer their tokens freely.
F.7	Commercial name or trading name	Plume Foundation
F.8	Website of the issuer	https://plume.org/
F.9	Starting date of offer to the public or admission to trading	2025-01-21
F.10	Publication date	2025-07-24
F.11	Any other services provided by the issuer	N/A
F.12	Identifier of operator of the trading platform	PGSL
F.13	Language or languages of the white paper	English
F.14	Digital Token Identifier	FRZQZJ7BL
F.15	Functionally Fungible Group Digital Token Identifier	N/A
F.16	Voluntary data flag	Mandatory
F.17	Personal data flag	true
F.18	LEI eligibility	N/A
F.19	Home Member State	Ireland
F.20	Host Member States	Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Iceland, Liechtenstein, Norway

Part G - Information on the rights and obligations attached to the crypto-assets		
G.1	Purchaser Rights and Obligations	<p>Rights: Holding PLUME confers the ability to use it within the Plume ecosystem: holders may participate in on-chain governance (vote on network proposals proportionally to their holdings) and utilize the token for network services (e.g. paying transaction fees, staking for network validation rewards). These are functional rights within the protocol. However, PLUME does not grant any ownership, profit-sharing, or legal entitlement to the Foundation or any real-world asset.</p> <p>Obligations: There are no obligations imposed on token purchasers apart from general compliance (users must abide by network rules and applicable laws). Purchasing or holding PLUME does not require performing any service; it is at the holder's discretion how to use or whether to participate in governance or staking.</p> <p>Right of Transfer: The holder may freely transfer PLUME tokens on Ethereum to third parties, and any associated rights (none beyond custodial control) move with the tokens.</p> <p>Trading: Wherever PLUME is listed on cryptocurrency exchanges, holders can buy, sell, or trade their tokens.</p>
G.2	Exercise of Rights and obligations	<p>Governance: To exercise voting rights, a holder will use the official governance process. Votes are typically exercised by signing transactions with the holder's wallet during proposal voting periods; each PLUME token usually equates to one vote.</p> <p>Staking/Rewards: To stake PLUME, holders will lock tokens in the network's staking contract or node and thereby gain voting power/validator status and earn rewards according to the protocol rules.</p> <p>Using for Fees: No special procedure – if a user transacts on Plume's chain, the network automatically deducts PLUME for gas. There are no additional conditions to use these rights beyond having the tokens and necessary wallet setup. (No obligations require enforcement beyond voluntary participation; non-participation has no penalty.)</p>
G.3	Conditions for modifications of rights and obligations	The rights and obligations attached to PLUME as described in this white paper reflect information available at the time of issuance. This white paper is issued by Kraken and does not constitute a commitment or guarantee by Plume or any other party regarding future modifications. No promises, warranties, or assurances are made herein regarding future token functionality, and this section is provided solely for informational purposes.
G.4	Future Public Offers	N/A

G.5	Issuer Retained Crypto-Assets	5 900 000 000
G.6	Utility Token Classification	false
G.7	Key Features of Goods/Services of Utility Tokens	false
G.8	Utility Tokens Redemption	N/A
G.9	Non-Trading request	This white paper reflects a request to admit the token to trading.
G.10	Crypto-Assets purchase or sale modalities	N/A
G.11	Crypto-Assets Transfer Restrictions	Kraken may, in accordance with applicable laws and internal policies and terms, impose restrictions on buyers and sellers of these tokens.
G.12	Supply Adjustment Protocols	false
G.13	Supply Adjustment Mechanisms	N/A
G.14	Token Value Protection Schemes	false
G.15	Token Value Protection Schemes Description	N/A
G.16	Compensation Schemes	false
G.17	Compensation Schemes Description	N/A
G.18	Applicable law	Any dispute relating to this white paper shall be governed by and construed and enforced in accordance with the laws of Ireland without regard to conflict of law rules or principles (whether of Ireland or any other jurisdiction) that would cause the application of the laws of any other jurisdiction, irrespective of whether PLUME tokens qualify as right or property under the applicable law.
G.19	Competent court	Any disputes or claims arising out of this white paper will be subject to the exclusive jurisdiction of the Irish courts.

Part H – information on the underlying technology

H.1	Distributed ledger technology	N/A
H.2	Protocols and technical standards	The PLUME token is based on the Ethereum and Plume Genesis protocols, which utilize decentralized Distributed-Ledger Technology. These protocols

		<p>provide the foundation for secure transactions and smart contracts. ERC20</p> <p>Token Standard: The ERC20 standard is a technical protocol for issuing and managing tokens, ensuring that the PLUME token is compatible with most wallets, exchanges, and decentralized applications (DApps).</p>
H.3	Technology Used	The PLUME token uses the existing ERC-20 fungible token standard.
H.4	Consensus Mechanism	<p>Ethereum uses a Proof-of-Stake (PoS) consensus mechanism, where validators are selected based on ETH stake to propose and attest to new blocks. Transactions on Ethereum typically take 12 seconds, with strong decentralization and security guarantees.</p> <p>Transactions executed on Plume Genesis are sequenced by Optimistic-Rollup validators; state roots are periodically posted to Ethereum, where they inherit Ethereum's Proof-of-Stake finality. Any fraudulent root can be challenged during the standard Arbitrum fraud-proof window, so Ethereum PoS validators ultimately guarantee the chain's integrity.</p>
H.5	Incentive Mechanisms and Applicable Fees	PLUME relies on the existing incentive mechanisms and fee structures of the Ethereum blockchain. On Plume Genesis, every Plume transaction pays gas in PLUME plus a small surcharge that covers the cost of posting L2 batches to Ethereum; L1 interactions (e.g., bridging) incur normal ETH gas.
H.6	Use of Distributed Ledger Technology	false
H.7	DLT Functionality Description	N/A
H.8	Audit	true
H.9	Audit outcome	<p>Multiple audits have been completed with no critical issues outstanding. The audit reports (for Plume's Arbitrum-based chain and related contracts) concluded that the platform is secure for launch; any vulnerabilities identified were addressed prior to mainnet. The project maintains ongoing security practices and a commitment to transparency in audits.</p> <p>Trail of Bits' audit from November 2024 was published with the issues identified but this audit does not include whether these issues have been remediated.</p>

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

S.1	Name	Payward Global Solutions Limited
S.2	Relevant legal entity identifier	9845003D98SCC2851458
S.3	Name of the crypto-asset	Plume

S.4	Consensus Mechanism	<p>The crypto-asset's Proof-of-Stake (PoS) consensus mechanism, introduced with The Merge in 2022, replaces mining with validator staking. Validators must stake at least 32 ETH every block a validator is randomly chosen to propose the next block. Once proposed the other validators verify the blocks integrity.</p> <p>The network operates on a slot and epoch system, where a new block is proposed every 12 seconds, and finalization occurs after two epochs (~12.8 minutes) using Casper-FFG. The Beacon Chain coordinates validators, while the fork-choice rule (LMD-GHOST) ensures the chain follows the heaviest accumulated validator votes. Validators earn rewards for proposing and verifying blocks, but face slashing for malicious behavior or inactivity. PoS aims to improve energy efficiency, security, and scalability, with future upgrades like Proto-Danksharding enhancing transaction efficiency.</p>
S.5	Incentive Mechanisms and Applicable Fees	<p>The crypto-asset's PoS system secures transactions through validator incentives and economic penalties. Validators stake at least 32 ETH and earn rewards for proposing blocks, attesting to valid ones, and participating in sync committees. Rewards are paid in newly issued ETH and transaction fees.</p> <p>Under EIP-1559, transaction fees consist of a base fee, which is burned to reduce supply, and an optional priority fee (tip) paid to validators. Validators face slashing if they act maliciously and incur penalties for inactivity.</p> <p>This system aims to increase security by aligning incentives while making the crypto-asset's fee structure more predictable and deflationary during high network activity.</p>
S.6	Beginning of the period to which the disclosure relates	2024-06-20
S.7	End of the period to which the disclosure relates	2025-06-20
S.8	Energy consumption	1727.30009 kWh/a
S.9	Energy consumption sources and methodologies	The energy consumption of this asset is aggregated across multiple components:

		<p>To determine the energy consumption of a token, the energy consumption of the network(s) ethereum is calculated first. For the energy consumption of the token, a fraction of the energy consumption of the network is attributed to the token, which is determined based on the activity of the crypto-asset within the network. When calculating the energy consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) is used - if available - to determine all implementations of the asset in scope. The mappings are updated regularly, based on data of the Digital Token Identifier Foundation. The information regarding the hardware used and the number of participants in the network is based on assumptions that are verified with best effort using empirical data. In general, participants are assumed to be largely economically rational. As a precautionary principle, we make assumptions on the conservative side when in doubt, i.e. making higher estimates for the adverse impacts.</p>
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