# Opulous (OPUL)

## White Paper

Version 1.0
Oct 2025

White Paper in accordance with Markets in Crypto Assets Regulation (MiCAR) for the European Economic Area (EEA).
Purpose: seeking admission to trading in EEA.

| No | Field | Content |
|---|---|---|
| 0 | **Table of content** | |

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| 01 | Date of notification | 2025-10-14 |
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| 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 | 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. |

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| 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. |
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| **Summary** | | |
| 07 | Warning in accordance with Article 6(7), second subparagraph of Regulation (EU) 2023/1114 | **Warning**<br>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 | OPUL (the "Token") is a utility token issued on the Algorand, Ethereum, BNB Smart Chain and Arbitrum One networks, with a fixed maximum supply of 500,000,000 Tokens. It serves as the core token of the Opulous platform and is designed to provide access to specific features and rewards.<br><br>The Token provides users with access to selected features within the Opulous ecosystem, including participation in membership and rewards programs and events. OPUL may also be used for designated in-platform utilities that are active at the time of listing. Token holders are responsible for safeguarding their wallets and private keys, as transactions are irreversible once executed.<br><br>OPUL does not confer ownership, equity, voting rights, or entitlement to revenues of the issuer. The contractual rights associated with OPUL relate solely to its functionality within the Opulous platform, and platform |

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| | | participation may require account creation and compliance with the Opulous Terms of Service. These rights and obligations may be modified in line with platform development and product updates, with any changes communicated transparently through official Opulous channels. |
| 09 | Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability | OPUL provides access to certain services within the Opulous platform, including participation in membership and rewards programs and events available at the time of listing.<br><br>OPUL is a freely transferable token on the Algorand, Ethereum, BNB Smart Chain, and Arbitrum One networks. There are no contractual restrictions on its transferability between compatible wallets or exchanges. However, practical restrictions may arise from third-party service providers, regulatory requirements, or geographic limitations that affect access to specific platform features. |
| 10 | Key information about the offer to the public or admission to trading | OPUL has a fixed maximum supply of 500,000,000 Tokens, which have already been issued. There is no new public offering, fundraising, or subscription period associated with this white paper. Accordingly, no minimum or maximum subscription goals, subscription fees, or discounted purchase phases apply. The issue price of OPUL was determined at the time of its original distribution and its current price is set by market conditions on secondary trading platforms.<br><br>This white paper therefore relates solely to the admission of OPUL to trading. OPUL may be made available for trading on regulated platforms. Prospective holders include both retail and professional investors, subject to applicable regulatory and geographic restrictions. |

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

| | | |
|---|---|---|
| A.1 | Name | Opulous Songs Ltd |
| A.2 | Legal form | Ltd |

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| A.3 | Registered address | Rodus Building, P.O. Box 3093, Road Town, Tortola, VG1110, British Virgin Islands | | |
|------|------|------|------|------|
| A.4 | Head office | 5 Shenton Way, #10-01, UIC Building, Singapore 068808 | | |
| A.5 | Registration Date | 2022-07-13 | | |
| A.6 | Legal entity identifier | Not applicable | | |
| A.7 | Another identifier required pursuant to applicable national law | 2103145 | | |
| A.8 | Contact telephone number | +1 205 578 6664 | | |
| A.9 | E-mail address | songs@opulous.org | | |
| A.10 | Response Time (Days) | 014 | | |
| A.11 | Parent Company | Opulous Group Ltd | | |
| A.12 | Members of the Management body | Full Name | Business Address | Function |
| | | Lee Parsons | Rodus Building, P.O. Box 3093, Road Town, Tortola, VG1110, British Virgin Islands | CEO |

|  |  | Miles Carroll | Rodus Building, P.O. Box 3093, Road Town, Tortola, VG1110, British Virgin Islands | Board Member |  |
|---|---|---|---|---|---|
| A.13 | Business Activity | Opulous Songs Ltd is engaged in the operation and management of the Opulous platform and its associated digital assets. The company's principal activity is the issuance and management of the OPUL utility token. Opulous Songs Ltd oversees treasury operations and ensures the ongoing functionality, compliance, and integrity of the token ecosystem. The company operates within the creative and digital asset sectors, managing the technical and administrative aspects of the Opulous platform and its related token ecosystem. Its principal markets include Europe, North America, and Asia. | | | |
| A.14 | Parent Company Business Activity | Opulous Group Ltd serves solely as a holding company and does not carry out any operational or financial activities beyond holding Opulous Songs Ltd. The issuer operates independently and is fully responsible for its own business activities and financial performance. | | | |
| A.15 | Newly Established | False | | | |
| A.16 | Financial condition for the past three years | Over the past three years, the company's financial results have shown some variability, consistent with the volatility of the digital asset markets. Despite these fluctuations, the company has maintained profitability and solvency each year, and the net profits have grown year-on-year since 2022. In the past couple of years, the company has focused on improving operational efficiencies and broadening its business scope to sustain a solid financial foundation. Looking ahead to 2025, the outlook remains optimistic, driven by favourable market conditions, upcoming product and marketing initiatives, and continued strong performance. Growing adoption of digital assets and expansion of services are expected to boost both revenue and profitability, further strengthening the company's financial standing. | | | |
| A.17 | Financial condition since registration | The company was incorporated in 2022 and has been operational for over three years. Accordingly, the financial condition since registration corresponds to the same period described above in Section A.16. During this time, the company has remained solvent and profitable, with year-on-year growth in net profits and a stable financial position consistent with developments in the | | | |

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| | | digital asset industry. |
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| 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 | False |

| 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 | | |
|---|---|---|
| Not applicable | | |

| Part D - Information about the crypto-asset project | | |
|---|---|---|
| D.1 | Crypto-asset project name | Opulous |
| D.2 | Crypto-assets name | Opulous |
| D.3 | Abbreviation | OPUL |
| D.4 | Crypto-asset project description | Opulous is a blockchain-based platform that enhances connections between music creators and their communities. The project enables artists to create digital memberships, called Music Fungible Tokens (MFTs), which allow fans to access exclusive content, merchandise, and experiences, and to receive rewards linked to an artist's milestones such as new releases or streaming achievements. The OPUL utility token supports access to these membership features and facilitates transactions within the Opulous ecosystem. |

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| D.5 | Details of all natural or legal persons involved in the implementation of the crypto-asset project | Name / Entity | Business address | Function |
|---|---|---|---|---|
| | | Arbitrum Foundation | Grand Cayman, Cayman Islands | Layer-2 infrastructure provider for the Arbitrum One network on which OPUL operates |
| | | Algorand Foundation | Singapore | Layer-1 infrastructure provider for the Algorand blockchain where OPUL ASA is also issued |
| | | Independent Auditors | Global | Smart contract and security auditing services |
| | | Global Node Validators (Arbitrum / Ethereum) | Global | Network validation and transaction finalization via Proof-of-Stake consensus |
| | | Undercurrent Capital Technologies | Singapore | Core development partner responsible for the design, coding, and deployment of the Opulous platform and smart contracts |

| D.6 | Utility Token Classification | True |
|---|---|---|

| D.7 | Key Features of Goods/Services for Utility Token Projects | OPUL provides access to digital membership services within the Opulous platform. It supports participation in artist-related programs through Music Fungible Tokens (MFTs), which allow fans to access merchandise, exclusive content, and milestone-based rewards linked to artists' achievements. These utilities are available directly through the Opulous platform and function |
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| | | solely within its ecosystem. |
| D.8 | Plans for the token | No material changes or new developments are planned for OPUL at this time. The token will continue to operate with its existing functionality across supported networks. |
| D.9 | Resource Allocation | Not applicable |
| D.10 | Planned Use of Collected Funds or Crypto-Assets | Not applicable |

| | | |
|---|---|---|
| **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 | The OPUL token seeks admission to trading to make it more widely accessible to users and prospective holders, while enhancing transparency and regulatory compliance. This admission enables broader participation in the Opulous platform and does not involve fundraising or the issuance of new tokens. |
| E.3 | Fundraising Target | Not applicable |
| E.4 | Minimum Subscription Goals | Not applicable |
| E.5 | Maximum Subscription Goal | Not applicable |

| | | |
|---|---|---|
| E.6 | Oversubscription Acceptance | Not applicable |
| E.7 | Oversubscription Allocation | Not applicable |
| E.8 | Issue Price | Not applicable |
| E.9 | Official currency or 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 | 500,000,000 OPUL (Maximum Supply) |
| E.13 | Targeted Holders | ALL |
| E.14 | Holder restrictions | Not applicable |
| E.15 | Reimbursement Notice | Not applicable |

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| E.16 | Refund Mechanism | Not applicable |
|------|------------------|----------------|
| E.17 | Refund Timeline | Not applicable |
| E.18 | Offer Phases | Not applicable |
| E.19 | Early Purchase Discount | Not applicable |
| E.20 | Time-limited offer | Not applicable |
| E.21 | Subscription period beginning | Not applicable |
| E.22 | Subscription period end | Not applicable |
| E.23 | Safeguarding Arrangements for Offered Funds/crypto-assets | Not applicable |
| E.24 | Payment Methods for crypto-asset Purchase | Not applicable |
| E.25 | Value Transfer Methods for Reimbursement | Not applicable |

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| | | |
|---|---|---|
| E.26 | Right of Withdrawal | Not applicable |
| E.27 | Transfer of Purchased crypto-assets | Not applicable |
| E.28 | Transfer Time Schedule | Not applicable |
| E.29 | Purchaser's Technical Requirements | Not applicable |
| E.30 | Crypto-asset service provider (CASP) name | Payward Global Solutions LTD |
| E.31 | CASP identifier | LEI: 9845003D98SCC2851458 |
| E.32 | Placement form | NTAV |
| E.33 | Trading Platforms name | Kraken |
| E.34 | Trading Platforms Market Identifier Code (MIC) | PGSL |

| E.35 | Trading Platforms Access | Investors may access OPUL trading through the Kraken platform, subject to account creation, completion of applicable KYC/AML procedures, and compliance with local regulatory requirements. |
|---|---|---|
| E.36 | Involved costs | Investors may incur trading fees, withdrawal fees, or other costs as determined by the policies of the trading platform. These costs are not set by the issuer. |
| E.37 | Offer Expenses | Not applicable |
| E.38 | Conflicts of Interest | No conflicts of interest have been identified by the issuer in connection with the admission of OPUL to trading. |
| E.39 | Applicable law | British Virgin Islands |
| E.40 | Competent court | Subject to mandatory applicable law, any dispute arising out of or in connection with this white paper and all claims in connection with the OPUL token shall be exclusively, including the validity, invalidity, breach or termination thereof, subject to the jurisdiction of the courts of the British Virgin Islands. |

## Part F - Information about the crypto-assets

| F.1 | Crypto-Asset Type | Utility Token |
|---|---|---|
| F.2 | Crypto-Asset Functionality | OPUL is a utility token used within the Opulous platform. It provides access to available digital membership and rewards programs and events. OPUL does not grant ownership, governance, or revenue rights. |
| F.3 | Planned Application of Functionalities | All described functionalities of OPUL are already live and available at the time of this admission to trading. |

| | | |
|---|---|---|
| **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 crypto-asset white paper | OTHR |
| F.5 | The type of submission | NEWT |
| F.6 | Crypto-Asset Characteristics | Opulous (OPUL) is a utility token operating on the Algorand, Ethereum, BNB Smart Chain, and Arbitrum One networks. It provides users with access to digital membership and reward programs and events available on the Opulous platform. The token has a fixed maximum supply of 500,000,000 units and is fully transferable across supported networks. Under the Markets in Crypto-Assets Regulation (MiCA), OPUL is classified as an "Other Crypto-Asset" (OTHR). |
| F.7 | Commercial name or trading name | Opulous |
| F.8 | Website of the issuer | https://opulous.org/ |
| F.9 | Starting date of offer to the public or admission to trading | 2021-09-23 |
| F.10 | Publication date | 2025-10-14 |

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| F.11 | Any other services provided by the issuer | Not applicable |
|------|------|------|
| F.12 | Language or languages of the white paper | English |
| F.13 | Digital Token Identifier | Not applicable |
| F.14 | Functionally Fungible Group Digital Token Identifier | Not applicable |
| F.15 | Voluntary data flag | False |
| F.16 | Personal data flag | False |
| F.17 | LEI eligibility | False |
| F.18 | Home Member State | Ireland |
| F.19 | Host Member States | Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden |

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

| G.1 | Purchaser Rights and Obligations | Purchasers of OPUL have the right to use the token within the Opulous platform to access digital membership and reward programs and events available at the time of listing. Purchasers are obligated to safeguard their wallets and private keys, and to comply with the Opulous Terms of Service when participating in platform features. OPUL does not confer equity, ownership, governance, or revenue rights in the issuer. |
|---|---|---|
| G.2 | Exercise of Rights and obligations | Rights and utilities attached to OPUL may be exercised by holding the token in a compatible wallet and connecting to the Opulous platform at opulous.org. Holders can access the platform's digital membership and rewards features and associated utilities in accordance with the procedures specified on the platform, subject to applicable eligibility and compliance requirements. |
| G.3 | Conditions for modifications of rights and obligations | The rights and obligations connected to OPUL are limited to its functionality as a utility token within the Opulous platform. Any updates to platform features that affect OPUL's functionality will be reflected in accordance with the applicable technical standards and communicated through official Opulous channels. The total supply of OPUL is fixed at 500,000,000 Tokens and cannot be increased, and no modifications can introduce ownership, governance, or revenue rights. Users remain responsible for complying with applicable legal and regulatory requirements in their jurisdictions. |
| G.4 | Future Public Offers | Not applicable |
| G.5 | Issuer Retained Crypto-Assets | All OPUL tokens are tradeable and no longer subject to vesting; there are no locked or restricted tokens remaining. A portion of OPUL is held in the Opulous wallet as reserves retained by the issuer. These holdings can be verified on-chain via the corresponding wallet address and transaction history: 0x30dA24ead4D2CdeFd9428e44F885d8F05bb91dCF. |
| G.6 | Utility Token Classification | True |

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| G.7 | Key Features of Goods/Services of Utility Tokens | OPUL provides access to digital membership programs offered through the Opulous platform. Within this ecosystem, the token enables users to participate in artist-related memberships via Music Fungible Tokens (MFTs), which may grant access to digital content, merchandise, or milestone-based rewards. All goods and services linked to OPUL are delivered digitally within the Opulous platform environment. |
|---|---|---|
| G.8 | Utility Tokens Redemption | The OPUL Token cannot be redeemed with the issuer for fiat currency or other crypto-assets. Instead, holders may use the OPUL Token within the Opulous platform to access the digital services and features. Redemption of the OPUL token therefore occurs through its use within the platform's digital services rather than through a monetary exchange with the issuer. |
| G.9 | Non-Trading request | True |
| G.10 | Crypto-Assets purchase or sale modalities | Not applicable |
| G.11 | Crypto-Assets Transfer Restrictions | Not applicable |
| 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 | British Virgin Islands |
| G.19 | Competent court | Subject to mandatory applicable law, any dispute arising out of or in connection with this white paper and all claims in connection with the OPUL token shall be exclusively, including the validity, invalidity, breach or termination thereof, subject to the jurisdiction of the courts of the British Virgin Islands. |

## Part H – information on the underlying technology

| H.1 | Distributed ledger technology | The OPUL token is issued, transferred, and stored using distributed ledger technology. The DLT is not operated by a single entity but rather by the decentralized networks of Algorand, Arbitrum, Ethereum, and Binance Smart Chain. Therefore, the DLT is not operated by the issuer or a third-party acting on the issuer's behalf in a centralized manner. Instead, it relies on the public, permissionless infrastructure of these established blockchains. |
|---|---|---|
| H.2 | Protocols and technical standards | The OPUL token adheres to the native token standards of each blockchain it resides on, ensuring interoperability within each respective ecosystem. |

| Blockchain | Protocol/Standard | Description |
|---|---|---|
| Algorand | ASA | Algorand Standard Asset, the |

|  |  |  |  | standard for fungible and non-fungible tokens on the Algorand blockchain. |
|  |  | Ethereum | ERC-20 | The most widely adopted standard for fungible tokens on the Ethereum blockchain. The OPUL token contract address is 0x80d55c03180349fff4a229102f62328220a96444 |
|  |  | Arbitrum | ERC-20 | As a Layer 2 solution for Ethereum, Arbitrum natively supports the ERC-20 standard, maintaining compatibility with the Ethereum ecosystem. |
|  |  | Binance Smart Chain | BEP-20 | The standard for tokens on the Binance Smart Chain, designed for compatibility with both BSC and the Ethereum Virtual Machine (EVM). |
|  |  |  |  |  |
| H.3 | Technology Used | Opulous leverages a combination of blockchain technologies to power its platform. Initially built on the Algorand blockchain, Opulous is strategically transitioning its core infrastructure to Arbitrum, a Layer 2 scaling solution for Ethereum. This move is driven by the desire for lower transaction costs, faster processing times, and access to the broader Ethereum ecosystem. The platform also utilizes AI-driven data analysis through its Opulous AI to provide revenue forecasts for music assets. The use of Music Fungible Tokens (MFTs), a form of NFTs, allows for the tokenization of music royalties. |||
| H.4 | Consensus Mechanism | The OPUL token operates on the Arbitrum One network, a Layer 2 scaling solution for Ethereum. As such, it does not have its own consensus mechanism. Instead, it inherits the consensus mechanism of the Ethereum network, which is Proof of Stake (PoS). This means that the validation of transactions and the security of the Arbitrum network are ultimately guaranteed by the validators of the Ethereum blockchain. |||

| H.5 | Incentive Mechanisms and Applicable Fees | The incentive mechanism for securing transactions on the Opulous platform is directly tied to the Ethereum network's Proof of Stake (PoS) consensus. Validators on the Ethereum network are rewarded with ETH for processing and validating transactions, which includes the transactions that occur on the Arbitrum network. This ensures the security and integrity of the entire ecosystem.<br><br>Users of the Opulous platform and the Arbitrum network pay transaction fees (gas) to have their transactions processed. These fees are paid to the Arbitrum sequencers who order and execute the transactions, and a portion of these fees is then used to pay for the cost of posting the transaction data to the Ethereum mainnet. |
|---|---|---|
| H.6 | Use of Distributed Ledger Technology | False |
| H.7 | DLT Functionality Description | Not applicable |
| H.8 | Audit | True |
| H.9 | Audit outcome | The smart contracts of the Opulous platform were audited by CertiK. The audit, completed on November 4, 2022, resulted in an overall security score of 81.10 (Grade A). The audit identified no critical vulnerabilities, two major vulnerabilities related to centralization/privilege, one medium vulnerability related to control flow, and one informational issue. The full audit report is available on the [CertiK website](). |
| **Part I – Information on risks** | | |
| I.1 | Offer-Related Risks | The admission to trading of OPUL involves risks linked to market volatility, trading conditions, and liquidity. Although OPUL is supported on centralized and decentralized exchanges, liquidity may vary, and significant fluctuations in price can occur due to market sentiment, macroeconomic conditions, or sector-specific developments. Purchasers may not be able to sell their tokens at a desired price or time, and extreme events such as regulatory restrictions |

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| | | or delistings could further impact market access. |
| I.2 | Issuer-Related Risks | Decentralized tokens like OPUL carry inherent risks related to their structure. Once issued, tokens cannot be recalled, reversed, or clawed back, and there is no mechanism for an issuer to control how holders use or transfer them. Users are solely responsible for the safekeeping of their wallets and private keys, and the loss or compromise of these may result in a permanent loss of tokens. |
| I.3 | Crypto-Assets-related Risks | OPUL tokens, like all crypto-assets, are subject to risks inherent to digital tokens. Market prices may fluctuate significantly, and there is no guarantee of future value. Custody of OPUL relies on private key management, and the loss or compromise of keys may result in the permanent loss of tokens. Regulatory changes across jurisdictions may impact the use, transferability, or taxation of OPUL. While OPUL functions as a utility token, it does not grant ownership, governance, or revenue rights. |
| I.4 | Project Implementation-Related Risks | The continued success of Opulous depends on the effective implementation of its roadmap, the adoption of its products by artists and users, and the timely delivery of planned features. Delays, technical hurdles, or changes in strategic direction could limit or postpone expected functionalities. Partnerships, user engagement, and broader market conditions also influence the project's growth, and there is no guarantee that all announced features will be realized as initially described. |
| I.5 | Technology-Related Risks | The Opulous platform is subject to several technology-related risks inherent to the blockchain space. The platform's dependency on Ethereum means that any disruptions, vulnerabilities, or significant changes to the Ethereum blockchain could have a direct impact on the Opulous ecosystem. As an optimistic rollup, Arbitrum has a dispute resolution mechanism that can lead to a delay of up to one week for withdrawals from the platform back to the Ethereum mainnet, representing a known trade-off for the scalability and cost-efficiency benefits of Layer 2 solutions.<br>The platform's smart contracts, although audited, remain susceptible to potential vulnerabilities, bugs, or exploits. A flaw in the smart contract code could lead to the loss of user funds or other unintended consequences. While the Arbitrum network is designed to be decentralized, a limited number of validators could potentially lead to a degree of centralization, which could impact the network's censorship resistance and overall security. |

| | | The use of cross-chain bridges to transfer assets between different blockchain networks introduces an additional layer of complexity and potential security risks. A vulnerability in the bridge protocol could result in the loss of assets being transferred. |
|---|---|---|
| I.6 | Mitigation measures | Opulous has implemented several measures to mitigate the technology-related risks identified above. By building on Arbitrum, which in turn is built on Ethereum, Opulous leverages the security and decentralization of the most established smart contract platform in the world. The security of the Ethereum network serves as a primary mitigation against the risks associated with L1 dependency.<br><br>To mitigate the risks associated with cross-chain bridging, Opulous partners with reputable and audited bridge providers like Messina. This ensures that the transfer of assets between different networks is as secure as possible. The platform's smart contracts have been audited by CertiK, a leading blockchain security firm, providing a degree of assurance regarding the security of the code. The development team has acknowledged the findings of the audit and has taken steps to address the identified issues.<br><br>The risk of centralization on the Arbitrum network is mitigated by the fact that the validator software is open-source and permissionless. This allows anyone to become a validator, which helps to ensure the decentralization and security of the network. To address the withdrawal delay associated with optimistic rollups, users can utilize fast bridge solutions that allow for near-instantaneous withdrawals from Arbitrum to Ethereum, albeit with a small fee. |

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

| J.1 | Name | Opulous Songs Ltd |
|---|---|---|
| J.2 | Relevant legal entity identifier | 2103145 |

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| J.3 | Name of the crypto-asset | Opulous |
|---|---|---|
| J.4 | Consensus Mechanism | The OPUL token operates on the Arbitrum One network, a Layer 2 scaling solution for Ethereum. As such, it does not have its own consensus mechanism. Instead, it inherits the consensus mechanism of the Ethereum network, which is Proof of Stake (PoS). This means that the validation of transactions and the security of the Arbitrum network are ultimately guaranteed by the validators of the Ethereum blockchain. |
| J.5 | Incentive Mechanisms and Applicable Fees | The incentive mechanism for securing transactions on the Opulous platform is directly tied to the Ethereum network's Proof of Stake (PoS) consensus. Validators on the Ethereum network are rewarded with ETH for processing and validating transactions, which includes the transactions that occur on the Arbitrum network. This ensures the security and integrity of the entire ecosystem.<br>Users of the Opulous platform and the Arbitrum network pay transaction fees (gas) to have their transactions processed. These fees are paid to the Arbitrum sequencers who order and execute the transactions, and a portion of these fees is then used to pay for the cost of posting the transaction data to the Ethereum mainnet. |
| J.6 | Beginning of the period to which the disclosed information relates | 2025-10-14 |
| J.7 | End of the period to which the disclosed information relates | 2026-10-14 |

**Mandatory key indicator on energy consumption**

| J.8 | Energy consumption | 1760.53216 kWh per year |
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| Sources and methodologies | | |
|---|---|---|
| J.9 | Energy consumption sources and methodologies | For the estimation of energy consumption, a "top-down" approach was applied. This estimation attributes a proportional share of publicly reported network-level energy data to OPUL based on its average annual transaction activity across supported blockchains. Transaction data were collected from public blockchain explorers and averaged over the token's entire on-chain history to derive an annualized transaction volume for each network. These were multiplied by conservative per-transaction energy benchmarks derived from official and independent sources: Ethereum Foundation and Crypto Carbon Ratings Institute (CCRI) reports for Proof-of-Stake efficiency, Arbitrum technical documentation, and Algorand Foundation sustainability data. The resulting figure represents a project-attributable share of total network energy use, expressed in kilowatt-hours per calendar year. |