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RDGX Utility Token Lightpaper:

A Comprehensive
Overview from
Tokenomics to
Structure, Node
Rewards, Depletion,
and Beyond.

Introduction to RDGX Tokenomics and Functionality

Radiologex is at the forefront of web3 healthcare IT solutions, offering both Software as a Service (SaaS) and Blockchain as a Service (BaaS) with unparalleled technological sophistication.

Radiologex innovates healthcare IT with blockchain via R-DEE platform, offering diverse services and powered by RDGX token for secure, efficient operations. This approach advances data integrity, portability, and tech integration in healthcare.

Our dedication to the critical and expansive healthcare sector led us to meticulously design the RDGX token, ensuring it seamlessly aligns with our cutting-edge architecture and diversified offerings. Central to this design is the R-DEE protocol, a proprietary blend of dual consensus mechanisms: Proof of Authority and Proof of Stake. This combination exemplifies our unwavering commitment to security, efficiency, and innovation in the healthcare sphere.

Full details of Radiologex and our flagship R-DEE Protocol blockchain network and R-DEE Productivity Suite for global healthcare industry IT use, is available at www.radiologex.com

Confronting the core complexities of speed, bandwidth, and security that come with sensitive healthcare data management, the R-DEE protocol stands out. It not only meets but exceeds the capabilities of existing blockchain technologies. Tailored to navigate the nuanced demands of healthcare information, it ensures seamless productivity and delivers unparalleled solutions to enhance data integrity and operational continuity in the healthcare sector.

Token issuance is overseen by Radiologex Technologies Ltd., the issuance licensee ensuring proper distribution and usage.

RDGX is an ERC-20 token, utilizing 18 decimals for precision in transactions and interactions.

Token

Distribution Breakdown:

A total fixed supply of 1 billion RDGX tokens has been pre-minted, and these tokens are allocated as follows:

01 Node Validator Reward Pool (60% - 600 million RDGX):

This substantial portion is dedicated to incentivizing and rewarding our esteemed node validators known as R-MIN (Radiologex Medical Interactive Nodes). They play a pivotal role in ensuring a vibrant and robust ecosystem for a ten year cycle. Following this initial period, Node Validators will be compensated from a dedicated Radiologex Platform fee revenue stream, thus providing Node Validators ongoing incentives beyond the Node Validator Pool depletion and well into the distant future.

02 Private and Public Sales Rounds (10% - 100 million RDGX):

These tokens are set aside to facilitate both private and public sales rounds, providing opportunities for token purchasers to actively engage with the Radiologex platform. These rounds will also enable participants to potentially support the distributed backbone PoS network by becoming Node Validators. The allocation for the private round is 70 million RDGX tokens, while the public round has 30 million RDGX tokens earmarked.

All Private (including Pre-Sale) rounds are subject to a 1 year lock period.

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- All Private (including Pre-Sale) rounds are subject to a 1 year lock period.

03 Founder, Core Team, and Operations (15% - 150 million RDGX):

This allocation is vital for supporting various pivotal components of the project, including:

- Founding members and core team (50 million RDGX)
- Development initiatives (20 million RDGX)
- Legal frameworks and counsel (20 million RDGX)
- Exchange listings and associated fees (50 million RDGX)
- Other operational prerequisites (10 million RDGX)
- All Founder, Core Team, and Operations allocations are subject to a 3 year vesting period.

04 Fair Launch Initiative, Reserves, Grants, and Philanthropy (15% - 150 million RDGX):

The remaining 15% of the total supply is dedicated to initiatives that promote innovation, expansion, and philanthropy. This allocation will be directed toward grants aimed at fostering innovation and growth within the Radiologex ecosystem. Additionally, these funds will support foundations dedicated to health-related charitable endeavors, as well as initiatives that enrich the end-user and validator community.

All Fair Launch Initiatives, Reserves, Grants, and Philanthropy are subject to a 10-year vesting period.

Examples of such initiatives may include:

1. Node Ownership Empowerment Program:

Example Use Case:

Provisional Node Ownership for Financially Disadvantaged Individuals: Implement a program where individuals who lack the financial resources to own a node can apply to receive one under provisional terms. This initiative would allow selected participants to operate a node and earn rewards without the initial financial burden. The program could be structured so that after a certain period of successful node operation and contribution to the network, these provisional node operators would gain full ownership of their node. This not only democratizes access to the Radiologex ecosystem but also incentivizes participation and support from a broader community base, enriching the network's diversity and resilience.

2. **Community Health Programs:** Launch community-driven health programs or campaigns that promote healthy living, mental health awareness, or disease prevention. RDGX tokens could be used as incentives or rewards for community members who actively participate and contribute to these programs.
3. **Validator Community Enhancement:** Invest in tools, resources, or platforms that enhance the experience of Node Validators within the Radiologex network. This might include using RDGX tokens to fund the development of advanced analytics tools, community forums, or educational resources that help Validators optimize their operations and engagement within the ecosystem.
4. **Global Health Initiatives:** Use RDGX tokens to fund global health initiatives, particularly in underserved regions. This could include supporting telehealth services in remote areas, funding medication drives, or contributing to health education and awareness campaigns.
5. **Disaster Relief Contributions:** Allocate funds to provide immediate healthcare support during natural disasters or pandemics. This could involve using RDGX tokens to supply medical equipment, and medications, and support telemedicine services for disaster-affected populations, all utilizing blockchain-based transparency on use-of-funds.

This comprehensive token distribution strategy ensures the sustainable development, growth, and social responsibility of the Radiologex project.

R-DEE Protocol's "Fair Launch Initiative" Explained:

In its commitment to championing inclusivity and equality, the R-DEE protocol has dedicated 10 million RDGX tokens to its pioneering "Fair Launch Initiative." This initiative aims to broaden the node validator applicant pool, breaking barriers and ensuring opportunities are not limited to those with substantial financial resources or the means to acquire RDGX.

Here's how it works:

Instead of purchasing the RDGX utility token as collateral to become node validators, individuals can now earn their way to this privileged position. By consistently delivering outstanding performance over a 12-month period, participants can accrue the necessary RDGX collateral to secure their Node Validator status.

The Fair Launch Initiative not only levels the playing field but also rewards dedication, hard work, and excellence. After the 12-month performance period, the earned RDGX collateral becomes unlocked, and those who've met the criteria are awarded permanent approved Node Validator status.

This initiative underscores R-DEE's commitment to ensuring that the digital future remains accessible and equitable for all, regardless of their financial standing. Through this, the R-DEE protocol hopes to build a stronger, more diverse community of node validators, driving the network's growth and security while upholding the values of fairness and accessibility. These edits maintain the substance of your content while improving the overall flow and readability.

ADDITIONAL NOTES: Vesting & Credit Score System



Private Sales Vesting:

Token buyer's participating in private sales rounds will be subject to a 12-month vesting period.



Core Team Vesting:

All allocations designated for the core and development team will undergo a vesting period of 3 years to uphold commitment and alignment with Radiologex's vision. The initial lock-up period is 1 year, referred to as the 'cliff.' Subsequently, tokens will be distributed quarterly over the next two years, resulting in a total vesting duration of 3 years for the core and development team.



All Fair Launch Initiatives, Reserves, Grants, and Philanthropy Vesting:

All allocations designated for the Fair Launch and Philanthropy initiatives will be subject to a ten-year vesting period. This extended period is established to ensure a sustained commitment to the philanthropic vision and principles of fair launch that are central to Radiologex. The initial lock-up period, or 'cliff,' for these allocations is set at two years. This initial phase underscores our dedication to long-term, impactful projects and initiatives.

Following the two-year cliff period, the distribution of tokens will be systematically structured to reinforce our ongoing commitment to these initiatives. The release schedule is as follows: 15% of the allocated tokens will be made available at the end of the second year, marking the first milestone in our long-term plan. After this, an additional 10% will be released at the end of each subsequent year. This phased approach ensures a steady and controlled distribution of tokens, aligning with the objectives of the Fair Launch and Philanthropy initiatives.

Tokenomics:

Total Fixed Token Supply: 1 billion RDGX

Token Allocation:

1. Node Validator Rewards: 600 million RDGX
2. Sales (Private & Public): 100 million RDGX
3. Team, Marketing, Legal, etc.: 150 million RDGX
4. Fair Launch, Grants, Philanthropy, Reserves: 150 million

Node Validator Reward Breakdown:

- Every node validator receives 300 RDGX per month, automatically issued via wallet push distribution until reward pool runs out.
- Total rewards per node per year = 300 RDGX x 12 = 3,600 RDGX/year
- Node Validators can earn 3% monthly/36% annual rewards from

10-year Depletion for Node Validator Rewards:

For 5,000 Nodes:

- Annual token consumption: 18 million RDGX
- Over 10 years: 180 million RDGX awarded
- Remaining rewards allocation after 10 years: 420 million RDGX

For 10,000 Nodes:

- Annual token consumption: 36 million RDGX
- Over 10 years: 360 million RDGX awarded
- Remaining rewards allocation after 10 years: 240 million RDGX

For 15,000 Nodes:

- Annual token consumption: 54 million RDGX
- Over 10 years: 540 million RDGX awarded
- Remaining rewards allocation after 10 years: 60 million RDGX

Network and Node Validator Caps:

The network has a maximum capacity of 15,000 nodes. To facilitate essential provisioning and initiate network operations, the company will bootstrap the system with an initial setup of 2,500 nodes. Consequently, this allocation leaves 12,500 Node Validator licenses available for operation. It is important to note that the number of Node Validator operators is strictly limited to this figure, and no additional licenses will be issued beyond this established cap.

Node Validator Credit Score System:

This system is designed to motivate validators to maintain high standards, ensuring a well-functioning, secure, and proactive validator base for the platform.

Credit Score System Brief: Key Components:

- 01 Score Metrics:**
 - Performance: Measures the uptime, response time, and efficiency of data processing by each node.
 - Security Compliance: Assesses adherence to security protocols, data encryption standards, and vulnerability management.
 - Data Integrity: Evaluates the accuracy and completeness of healthcare data processed and stored.
 - Community Contribution: Considers the node's involvement in network support, updates, and collaborative initiatives.
- 02 Scoring Mechanism:**
 - Node Validators receive scores based on a scale (e.g., 0-1000) across each metric.
 - Scores are calculated based on historical data, real-time performance, and peer reviews within the network.
 - Regular audits and random checks are conducted to ensure score accuracy.
- 03 Incentives and Penalties:**
 - High-scoring nodes are rewarded with increased transaction fees, access to premium data management tools, and priority in network updates.
 - Low-scoring nodes may face reduced transaction processing capabilities, temporary suspension, or in severe cases, revocation of their validator license.
- 04 Transparent Reporting:**
 - Regular reports are issued to Node Validators, providing insights into their performance and areas for improvement.
 - An annual summary report is made available to stakeholders, ensuring transparency and accountability.
- 05 Integration with Healthcare Data Standards:**
 - The system aligns with healthcare regulations like HIPAA and GDPR, ensuring that node operations comply with data privacy and security standards.
 - Validators managing sensitive data are subject to stricter scoring criteria.



Implementation and Monitoring:

- A dedicated team will oversee the implementation, monitoring, and updating of the credit score system.
- Continuous improvement will be a focus, with feedback loops from Node Validators and stakeholders driving system enhancements.
- Advanced AI algorithms can be employed to analyze node performance data, predict potential issues, and suggest improvements.



Mechanism for Remaining Node Validator

Tokens:

Validator Credit Score System Criteria:

- Longevity (70% Grade Weight)
- Positive Contributions (20% Grade Weight)
- Security Measures (10% Grade Weight):
 - TLS Certificates: Encrypted communications.
 - Zero Reported Security Incidents.
 - Validator Identity Verification: Regular KYC check re-authentications.

Hypothetical Token Distribution Scenarios Based on Validator Credit Score:

For 5,000 Nodes:

- 420 million RDGX tokens to distribute over 10 years.
- 42 million RDGX tokens per year, distributed every six months, proportionally to Credit Score.

For 10,000 Nodes:

- 240 million RDGX over 10 years.
- 24 million tokens per year, distributed every six months, according to Credit Score.

For 15,000 Nodes:

- 60 million RDGX remaining.
- 6 million tokens available for distribution each year, 3 million tokens every six months, allocated based on Credit Scores.

Face Value Price During Public Round:

For the public sales round, the R-DEE Protocol Token (RDGX) has been priced at a standard rate of \$2.00 per token (or \$20,000 per Node License Collateral Sum). This pricing sets a definitive benchmark that marks a progression from the token's initial valuation established during the pre-sale and private sale rounds. This transparent pricing strategy aims to offer clarity and confidence to potential buyers and participants engaging in the public sale.

It's essential to understand, however, that this face value serves merely as an initial reference point. Once RDGX tokens are actively traded on exchanges and exposed to the dynamics of the broader market, their market value is expected to experience fluctuations. These variations will be influenced by a range of market forces and trading activities, underscoring the token's dynamic nature in a live trading environment.

Technological Measures to Exclude U.S. Participants from Utility Token Purchases:

To ensure compliance with regulatory standards, we have implemented a robust set of technological measures designed to prevent U.S. participants from directly engaging in utility token purchases. These measures include the use of geolocation services to restrict access from U.S.-originating IP addresses. Our stringent KYC procedure requires thorough personal identification, ensuring the exclusion of U.S. citizens and residents. Additionally, we employ advanced tools to detect and counteract VPN usage. Moreover, every participant is required to affirmatively declare their non-U.S. status, adding a crucial legal safeguard to our preventive mechanisms.



Direct Sales Schedules:

RDGX is currently also available in limited quantities on a select group of exchanges, ensuring exclusive and secondary market access and liquidity of our tokens:

- LBANK
- COINSBIT
- AZBIT
- TOKPIE

01

Exclusive Pre-Sale Stage (Dec 29, 2023- Jan 31, 2024 or until sold out):

2.5M RDGX Tokens at \$1.00 each, plus a 100% bonus on all purchases. Only 2.5M RDGX are available this round.

02

Private Sales Round (Feb 1 – May 31, 2024, or until sold out):

RDGX Tokens remain at \$1.00 each with tiered bonuses ranging from 15% to 35%, and a minimum purchase of 1000 tokens. 10M RDGX are available this round.

03

Public Sales Round (June 1 - August 31, 2024 or until sold out):

Tokens available at \$2.00 each, with 20M tokens up for grabs and no minimum purchase. Unlock exclusive bonuses of 5%, 10%, or 15% on every purchase.

Each stage has its unique incentives, with limited token availability to ensure exclusivity for early adopters.

*Bonuses are effectively applied as discounts at the point of purchase. Therefore, a 100% token bonus equates to receiving a 50% discount on the listed token price at checkout.

Node Validator

(also known as Radiologex Medical Interactive Node or R-MIN™)



Requirements & Specifications:

Collateral: To host a node in the proof-of-stake layer, validators must stake collateral of 10,000 RDGX tokens.

Verification: Validators are required to undergo a comprehensive KYC (Know Your Customer) process. Given the critical and sensitive nature of their roles, this thorough vetting is non-negotiable. For added peace of mind, any personal data collected remains strictly confidential and will never be publicly disclosed. Verification is conducted through ONFIDO.

Incentive Structure: Node Validators in our network are rewarded for their dedication and high-quality performance. Each month, active Validators who consistently contribute to the protocol and uphold our stringent standards of excellence are eligible to receive a compensation of 300 RDGX tokens. This reward is contingent upon adherence to our specified terms and conditions, as well as achieving and maintaining a satisfactory rating within our Node Validator Credit Score System. This system objectively assesses each Validator's contributions and performance, ensuring that the rewards are aligned with their commitment and the value they bring to the network.

Product Discounts: Node Validators (R-MIN's) enjoy preferential pricing or cost benefits on Radiologex's range of solutions. This includes R-DEE Connect (currently in Alpha), designed for healthcare professionals worldwide, and R-DEE Go (in Beta) – a universal health record tool for patients, as well as R-DEE Vault (a data storage solution nearing full release). Depending on regional pricing dynamics, Node Validators (and token holders in general) can expect to save anywhere from 15% to 40%, effectively reducing their operational costs if they choose to utilize the suite.

Elevated HDID (Healthcare Digital ID) Recognition: In recognition of their pivotal role, Node Validators (R-MIN's) receive a distinguished HD-ID status. This prestigious designation fosters greater trust within the healthcare ecosystem and can be likened to the coveted Twitter blue checkmark, symbolizing elevated authority and trustworthiness.

Core Functions of the Node Validators: Within the Radiologex ecosystem, the RDGX utility token serves as a cornerstone, ensuring seamless and secure operations. Central to its utility are the Node Validators, operating within the Proof of Stake mechanism.

HD-ID (Healthcare Digital ID) Verification: Purpose: To ensure safe and precise data handling in healthcare, strict validation of patient and professional identities is mandatory.



Node Validator Role:

In the R-DEE protocol, Validators play a crucial role in cross-verifying the digital identity of every entity. This process involves meticulously verifying credentials against a decentralized database, ensuring that each user's digital identity accurately corresponds with real-world data. In addition to this fundamental responsibility, Validators also undertake a vital role in Audit Trail services. This includes overseeing and ensuring the integrity of healthcare data as it moves across different systems. They are instrumental in maintaining a secure and immutable record of all data transactions, which is essential for the portability and storage of sensitive healthcare information. This dual function of identity verification and audit trail management not only enhances the security and reliability of the R-DEE protocol but also upholds critical standards in healthcare data handling, ensuring compliance with regulatory requirements and preserving the confidentiality and accuracy of patient data.

Robust audit trails are essential for healthcare data portability and sharing. All data interactions, including transfer, alteration, or access, should be logged and verifiable for transparency and regulatory compliance.

Future expansions in Node Validator roles could encompass a multifaceted integration of RDGX Tokens, transcending traditional boundaries to revolutionize various sectors. Envision a system where these tokens become the cornerstone of an innovative healthcare ecosystem, enabling the secure tokenization of medical records. This not only safeguards patient privacy but also streamlines access for authorized personnel. Imagine further, the transformative impact on supply chain management, introducing unparalleled transparency and efficiency. In the realm of stakeholder engagement, RDGX Tokens could pioneer new avenues for collaboration and participation, fostering a more inclusive and responsive organizational environment.

Furthermore, the potential of these tokens in the arena of research is immense. They could serve as a dynamic tool for funding, directly channeling resources to groundbreaking projects, and also as a means of recognizing and rewarding contributors and innovators in the field. Additionally, the application of RDGX Tokens could extend to service industries, such as tokenized booking systems, offering a seamless, secure, and efficient method for managing appointments and reservations. The possibilities are vast, pointing towards a future where RDGX Tokens are instrumental in shaping a more interconnected, efficient, and secure world.

Validators maintain and verify logs of all data interactions on the platform. They ensure that every data interaction is chronologically logged and can be traced to its source.



Node Validator (R-MIN™) Summary:

Node Validators in the R-DEE protocol play a pivotal role in maintaining the integrity, security, and efficiency of healthcare data flow. They ensure strict HD-ID verification, uphold data immutability, and guarantee robust audit trail verification, making them indispensable for a modern healthcare data ecosystem.

Issuance Roadmap & Key Milestones:

Radiologex has painstakingly developed the R-DEE Protocol and R-DEE Suite, both of which have surpassed the MVP (Minimum Viable Product) stage and are now in the critical pre-launch phase, enriched with refined features and capabilities. This roadmap signifies more than just a timeline; it is a testament to our commitment and vision for the future of healthcare. Let's delve into the key milestones:



Key Features:

- ✓ **Maturity of R-DEE Products:** Both the R-DEE Protocol and R-DEE Suite have already been constructed and also have successfully exceeded MVP status, demonstrating our unwavering dedication to introducing cutting-edge solutions to the healthcare sector after a comprehensive 5-year-plus development phase.
- ✓ **Mainnet Launch:** Following closely, the R-DEE mainnet is targeted for release on January 15th, 2024. This milestone, designed as a transformative element in health IT, complements the introduction of R-DEE Connect, ensuring users benefit from enhanced and expanded features.
- ✓ **Enterprise-Grade Utility:** RDGX transcends the typical token, offering a precision-engineered utility ecosystem for the dynamic healthcare industry.
- ✓ **Exclusive R-DEE Protocol Integration:** A pioneering dual consensus blockchain network tailored for global healthcare needs, enhancing interoperability and data integrity.
- ✓ **Cost-Effective Subscriptions:** RDGX tokens unlock preferential rates on essential healthcare services within the R-DEE ecosystem.
- ✓ **Premium Feature Access:** RDGX token holders gain access to advanced healthcare service features.
- ✓ **Innovative Healthcare Digital-ID:** RDGX leads in digital identity management, offering enhanced security and personalization through Healthcare Digital IDs.
- ✓ **Smart Contract Healthcare Tokenization:** Facilitates secure, seamless healthcare asset management and transactions.
- ✓ **In-Module Rewards:** Active RDGX users enjoy loyalty incentives within the ecosystem.
- ✓ **Exclusive Node Validator Opportunities:** Limited licenses available for continuous reward earning potential supported by the R-DEE Settle module.
- ✓ **USA-Based Compliance:** Radiologex, grounded in the U.S., focuses on compliance, reliability, and security, boasting a suite of licensed, patented technologies.
- ✓ **Expert Leadership Team:** Over 60 years of combined experience in healthcare, technology, and blockchain, driving transformative healthcare solutions.
- ✓ **Unparalleled Security:** RDGX adheres to rigorous data protection protocols, incorporating advanced cryptographic techniques. It is recognized by the USA Department of Health and Human Services for its robust security, further validated by prestigious certifications such as ISO 9001, ISO 27001, and ISO 20022, among others.
- ✓ **Scalable and Sustainable:** The token operates on an eco-friendly network, scalable to meet healthcare's growing demands.
- ✓ **Future-Ready Platform:** Adapted for tomorrow's healthcare IT needs, embracing emerging technologies.
- ✓ **Global Compliance and Interoperability:** RDGX is designed to seamlessly integrate into international healthcare systems, with U.S. legal backing ensuring operational integrity.

Upcoming Go-To-Market Strategy and Release Schedule:

Initial Module Launch: R-DEE Settle Module

As a foundational component of our platform, the R-DEE Settle module will initially launch without the built-in borderless payments feature tethered to a stablecoin for end-users. However, it will prominently feature a seamlessly integrated RDGX wallet. This wallet is more than just a token storage solution; it is equipped with an advanced system that facilitates the automatic deployment and management of node validators. This feature significantly enhances the module's security and operational efficiency.

Moreover, the R-DEE Settle module is designed with user convenience in mind. Its compatibility with popular interfaces like Metamask and WalletConnect opens up a range of user-friendly access options. This integration ensures that users can experience a versatile and intuitive interaction with the platform, laying the groundwork for a more robust and feature-rich update in subsequent releases.



With these milestones in sight, our journey promises to be transformative. Radiologex stands poised to deliver unparalleled value to its community, setting new benchmarks in global healthcare information technology.

Important Considerations and Notes:

Tokenomics, Volume, and Liquidity: Emphasizing Structure and Utility

Strategic Actions:

- Thoughtful Allocation and Introduction:** During our token distribution phases, our approach is centered around thoughtful allocation and careful introduction of RDGX into the ecosystem. This approach is geared towards ensuring a smooth integration of the token into our platform, focusing on its utility and role within the network.
- Sustainable Tokenomics Framework:** We have designed the RDGX tokenomics with a focus on long-term sustainability and utility within our network. A significant part of the circulating supply is dedicated to the Node Reward Pool. Additionally, we have established extended allocation periods for different groups within our community, aiming to align token distribution with ongoing network engagement and contribution.
- Supply Management for Network Health:** A major portion of the initial RDGX supply is expected to be engaged in Node Validator operations, estimated at nearly 70% or more of the circulating supply. This is a strategic decision to align token supply with the operational needs of our network, ensuring a healthy balance between availability and utility.
- Fostering Community and Utility-Driven Growth:** Our primary goal is to encourage growth in the utility and adoption of RDGX. This involves actively engaging with our community, maintaining open and transparent communication, and focusing on building a robust user base that recognizes and values the functional role of RDGX within our ecosystem.

Use of Proceeds:

Goal: To instill and maintain robust token buyer confidence.

Action: We pledge to provide a transparent and detailed breakdown of how we allocate and utilize the funds generated from the sales. This transparency underscores our commitment to responsible financial stewardship.

Legal Framework:

Goal: To create a seamless and compliant token environment.

Action: Our paramount objective is to ensure full regulatory compliance during all sale rounds. This not only safeguards our community and project but also proactively addresses potential legal issues. We have devoted significant time, resources, and rigorous analysis to secure both USA-compliant and USA-issued Legal Memoranda. Additionally, we've obtained an international counterpart through our engagement with Blockchain/Securities counsel based in BVI, further reinforcing our commitment to regulatory adherence on a global scale. Clear communication and accountability are paramount in building lasting trust.

Funds-Use Overview:

- Development:** A considerable percentage is dedicated to the continuous development and improvement of the platform. This includes hiring, infrastructure costs, and software updates.
- Marketing & Community Building:** Allocation of funds to promote the RDGX token, onboard new users, and nurture our community through events, AMAs, and educational content.
- Operational Expenses:** Costs associated with Radiologex (OPCO) daily operations, technical operations, platform development, maintenance and upgrades, salaries, office rentals, utilities, and others.
- Security:** A dedicated portion for securing the platform against vulnerabilities, including regular audits, penetration testing, and bounty programs.
- Reserves:** Funds set aside for unforeseen challenges or opportunities that might arise.

About the Network:

Radiologex's R-DEE Protocol™ Network Foundation - Dual Consensus Mechanism



Proof of Authority (PoA):

Role of Authority Nodes:

Integral to PoA's structure, these nodes perform pivotal operations.

- **Modified QBFT Protocol:** At the heart of our PoA lies the modified QBFT algorithm and protocol. This enhancement promises quicker transaction finality, reduced energy consumption, and robustness against forks. It also fosters an environment where malicious nodes can be identified and penalized swiftly.
- **Transaction Verification:** Prioritizing quick turnarounds, they rapidly authenticate and append transactions to the blockchain.
- **Network Security and Integrity:** With a reputation system, these nodes bolster system defenses, thwarting unauthorized activities.
- **Compliance Audits:** Regular assessments ensure network alignment with our stringent benchmarks.
- **Software Evolution:** Paving the path for cutting-edge implementations, authority nodes manage seamless software transitions.
- **Efficiency & Scalability:** Their decision-making ability, being centralized, expedites high-volume transaction processes.



Proof of Stake (PoS):

Node Validators in Action

Node Validators operate as the ecosystem's primary support structures, anchored by substantial RDGX token stakes.

- **Transactional Scrutiny:** As the vanguard, they initially vet transactions, ensuring only genuine activities progress to PoA nodes.
- **Authlogex Engine Supervision:** Steering the Authlogex operations, they guarantee a secure and private mechanism for digital ID verifications in healthcare.
- **Advanced Data Management:** Beyond mere storage, these nodes ensure encrypted data protection, optimize retrieval processes, and provide decentralized computational resources.
- **Rapid Payment Channels:** For swift settlements, Node Validators manage specialized channels, ensuring timely service fee resolutions.



Incentive Structure:

- **Recurring Token Rewards:** Node Validators (R-MIN's), called R-MIN™ (Radiologex Medical Interactive Nodes), are compensated with RDGX tokens for their vital services.
- **Fee-Based Earnings:** Handling specialized tasks could allow Node Validators to accrue additional fees.



Synchronized Network Functionality:

PoA & PoS Working in Tandem

Radiologex's efficacy emerges from the flawless synchronization of PoA's swift decision-making prowess with PoS's decentralization tenets.

- **Unified Data Authentication:** Starting with a transaction broadcast, preliminary checks by the PoS layer (Node Validators) set the stage. The PoA nodes then finalize and inscribe the transaction.
- **Security Reinforced:** Dual consensus adds a layer of redundancy, ensuring operational continuity even if one mechanism falters.

A primer about R-DEE Protocol's Advanced Distributed Data Technology:

Radiologex Adaptive Data Sharding (R-ADS)

R-ADS is an innovative sharding approach designed specifically for healthcare data storage systems to achieve unparalleled speed, security, and scalability. It addresses the unique challenges of healthcare data, which include strict privacy regulations, data integrity requirements, and the need for rapid access by healthcare providers and researchers. Its dynamic and adaptive nature, combined with advanced security and query optimization features, makes it faster and safer than traditional chunking or standard sharding methods.

Feature:

- ✓ **Dynamic Sharding:** Unlike traditional sharding methods that create fixed shards, employs dynamic sharding. It continuously analyzes data access patterns and adjusts shard boundaries in real-time. This ensures that frequently accessed data remains within the same shard, minimizing cross-shard queries and latency.
- ✓ **Data Encryption and Access Control:** Our system employs advanced encryption and stringent access control measures at both the shard and overall data level. Utilizing robust encryption algorithms, each data shard is securely encrypted, ensuring a high level of data protection. To complement this, we have implemented meticulous access control mechanisms. These are designed to offer fine-grained access, meticulously tailored to individual user roles and permissions. This dual-layered approach not only guarantees enhanced data security but also ensures full compliance with healthcare regulations, including HIPAA. Our commitment to these rigorous standards is fundamental in safeguarding sensitive healthcare information and maintaining the utmost confidentiality and integrity of the data entrusted to us.
- ✓ **Health Data Consistency:** To maintain data consistency across shards, uses distributed consensus protocols such as Raft or Paxos (clustering). This guarantees that all healthcare data remains accurate and up-to-date across the distributed system.
- ✓ **Query Optimization:** R-ADS integrates advanced query optimization algorithms that can analyze complex healthcare queries and distribute them efficiently to relevant shards. This minimizes the computational load on individual shards and reduces query response times.
- ✓ **Predictive Analytics:** R-ADS incorporates machine learning algorithms to predict future data access patterns. By proactively moving data to the most appropriate shards, it further reduces query times and improves system performance.
- ✓ **Secure Identity Management:** The system implements a secure identity management system using blockchain technology. This ensures the authenticity of users and devices accessing the healthcare data, preventing unauthorized access.
- ✓ **Immutable Audit Trail:** R-ADS maintains an immutable audit trail using blockchain to track all data access and modification events. This provides transparency, accountability, and tamper-proof records, which are crucial for compliance and auditability.
- ✓ **Load Balancing:** R-ADS uses load balancing techniques to evenly distribute the computational load across shards. This prevents overload on specific shards and maintains optimal system performance.



Benefits:

- Speed:** R-ADS significantly reduces query response times by dynamically adapting shard boundaries and optimizing data distribution.
- Security:** Robust encryption, access control, and blockchain-based identity management ensure data security and regulatory compliance.
- Scalability:** R-ADS can seamlessly scale by adding new shards as the healthcare data storage needs grow.
- Data Integrity:** R-DEE Protocol Consensus protocols and audit trails guarantee data integrity and traceability.
- User-Friendly:** R-ADS offers a user-friendly interface and API for healthcare providers and researchers to access and query data.

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