

## ## Table of Contents

1. [Introduction](#1-introduction)
  1. [What is Lisk](#1-what-is-lisk)
  2. [Technical Background](#2-technical-background)
  3. [Key Innovation Factors](#3-key-innovation-factors)
  4. [Lisk Components](#4-lisk-components)
2. [Clients](#2-clients)
  1. [Lisk](#1-lisk)
  2. [Lisk Lite](#2-lisk-lite)
  3. [Lisk Mobile](#3-lisk-mobile)
3. [Consensus](#3-consensus)
  1. [Delegates](#1-delegates)
  2. [Network fees](#2-network-fees)
  3. [Peer-to-Peer](#3-peer-to-peer)
4. [Core Features](#4-core-features)
  1. [Usernames](#1-usernames)
  2. [Contacts](#2-contacts)
  3. [Multi-signatures](#3-multi-signatures)
5. [Decentralized Applications](#5-decentralized-applications)
  1. [Virtual Machine](#1-virtual-machine)
  2. [Dapps](#2-dapps)
  3. [Dapps Development](#3-dapps-development)
  4. [Dapps Computation](#4-dapps-computation)
  5. [Dapps Consensus](#5-dapps-consensus)
  6. [Dapps Master Nodes](#6-dapps-master-nodes)
  7. [Dapps Storage](#7-dapps-storage)
  8. [Dapps Deposits / Withdrawals](#8-dapps-deposits-withdrawals)
  9. [Dapps Tokens](#9-dapps-tokens)
6. [Appendix](#6-appendix)
7. [Sources](#7-sources)

## ## 1. Introduction

### ### 1. What is Lisk

Lisk is a next generation platform that allows for the development and distribution of JavaScript based decentralized applications using an easy to use, fully featured ecosystem. Through Lisk, developers can build, publish, distribute, and monetize their applications within a custom built cryptocurrency powered system that utilizes custom blockchains, smart contracts, cloud storage, and computing nodes; all from within one industry solution.

### ### 2. Technical Background

Lisk is written in Node.js[[1]](<http://nodejs.org>) on the backend, and HTML5 and CSS3 on the frontend. It works asynchronously and allows for fast processing of all functions such as network transactions. The database uses SQLite to allow the use and running of complex queries.

### ### 3. Key Innovation Factors

Lisk is the first decentralized application solution written entirely in Node.js. This opens up the Lisk ecosystem to thousands of current developers with no additional skills necessary. Any web developer who is already familiar with JavaScript and Node.js can immediately jump in and begin building decentralized applications from day one.

Our core goal with Lisk was to create an entire plug and play system that would allow developers to do everything from design, development, publication, and monetization, all from within one platform. By utilizing the Lisk ecosystem, developers can quickly deploy their JavaScript apps to Lisk Hosting & Storage Nodes, gain listing in the Lisk Dapp Store, and have immediate access to Lisk Compute Nodes for execution of the code. All while being backed by the integrity and security of the Lisk sidechain consensus functionality.

To top it all off, all of these cloud functions are run by the users and Lisk delegates who are paid through a built in invoice system (or by the network itself in the case of delegates) and paid in LISK (Lisk's own cryptocurrency) or BTC. It truly is a one stop shop for

# Lisk White Paper

**Fadi Al-Turjman**



## **Lisk White Paper:**

*Security Analytics for the Internet of Everything* Mohuiddin Ahmed, Abu S.S.M Barkat Ullah, Al-Sakib Khan Pathan, 2020-01-27 Security Analytics for the Internet of Everything compiles the latest trends technologies and applications in this emerging field It includes chapters covering emerging security trends cyber governance artificial intelligence in cybersecurity and cyber challenges Contributions from leading international experts are included The target audience for the book is graduate students professionals and researchers working in the fields of cybersecurity computer networks communications and the Internet of Everything IoE The book also includes some chapters written in a tutorial style so that general readers can easily grasp some of the ideas

**Cryptocurrency Encyclopedia: the comprehensive guide through the 100 most important cryptocurrencies** Wojciech Jakub Podobas, 2019-10-25 The cryptocurrency market is a very diverse place where it is hard to find reliable information Moreover it is nearly impossible to find all the important facts about more than one project in one place Cryptocurrency Encyclopedia was written to solve this problem and create the first comfortable all in one source of knowledge for cryptocurrency investors and traders The Cryptocurrency Encyclopedia comprehensively describes the top 100 most important cryptocurrencies arranging them by project utility reliability team engagement and fundamental and speculative value This summary of the cryptocurrency market is sure to help any investor find prime investment opportunities What is more all the information are checked in terms of reliability contain technical specifications and evaluate the community outlook The book also details the principles of blockchain technology in an easy to understand form allowing the entry to every class of investor from beginner to an advanced crypto hodler The book describes the 101 most important cryptocurrencies by their function advantages disadvantages team engagement fundamental and speculative value The projects are divided into categories as follows Classic cryptocurrencies Bitcoin Litecoin Bitcoin Cash Bitcoin SV Monero Dash Etheruem Classic Dogecoin Zcash Decred Bitcoin Gold Bitcoin Diamond Bytecoin Algorand MonaCoin Energi Verge Zilliqa Contracts and token platforms Ethereum EOS Cardano Tron Chainlink Neo Gas Qtum EDUCare DigiByte Komodo RIF Token WAX Gram Exchange based tokens Binance Coin Unus Sed Leo Huobi Token KuCoin Shares ZB Synthetix Network Token Nash Exchange Digitex Futures QASH Cryptocurrency integration platforms XRP Stellar NEM Newton Libra Alternative blockchain Coins Cosmos Ontology Ontology Gas VeChain V Systems Lisk Nano Holo Waves Icon Quant HyperCash IOST Ardor Crypto fiat transactions platforms Crypto com MCO Crypterium Pundi X Nexo Electroneum Stablecoins DAI USD Coin Paxos Standard True USD Stasis Euro Tether All other major cryptoprojects Tezos Maker HedgeTrade Basic Attention Token 0x Ravencoin Omisego ABBC Coin Augur BitTorrent KaratGold Coin BitShares Theta MaidSafeCoin Siacoin Lambda Bytom Metaverse ETP Steem Golem Enjin Coin Status Reddcoin Loopring Decentreland Civic District0x Populous

**Cybersecurity Threats with New Perspectives** Muhammad Sarfraz, 2021-12-08

Cybersecurity is an active and important area of study practice and research today It spans various fields including cyber

terrorism cyber warfare electronic civil disobedience governance and security hacking and hacktivism information management and security internet and controls law enforcement national security privacy protection of society and the rights of the individual social engineering terrorism and more This book compiles original and innovative findings on issues relating to cybersecurity and threats This comprehensive reference explores the developments methods approaches and surveys of cyber threats and security in a wide variety of fields and endeavors It specifically focuses on cyber threats cyberattacks cyber techniques artificial intelligence cyber threat actors and other related cyber issues The book provides researchers practitioners academicians military professionals government officials and other industry professionals with an in depth discussion of the state of the art advances in the field of cybersecurity Principles and Applications of Blockchain Systems Hui Li,Han Wang,2025-01-03 Technical theory key technologies and practical applications for consortium blockchains with a solution to the CAP trilemma problem Principles and Applications of Blockchain Systems provides a comprehensive introduction to consortium blockchains including the physical network consensus and contract layers covering technical theory key technologies and practical applications Beyond the technical side this book visually showcases the application potential of consortium blockchains with information on implementation cases in network management Multi Identifier System and secure storage Mimic Distributed Storage System This book thoroughly addresses the CAP trilemma problem for consortium blockchains a major barrier to scalability by presenting a novel quantifiable impossibility triangle with a solution Additionally optimization techniques in consortium blockchains such as P2P protocols for future networks and consensus algorithms are discussed in detail Written by two highly qualified academics with significant experience in the field Principles and Applications of Blockchain Systems discusses topics such as Peer to peer networks in consortium blockchains covering P2P network architecture and node discovery data synchronization and gossip protocols Basic concepts of distributed consistency including the SMR model in blockchain systems assumptions for distributed networks and the Byzantine Generals problem Consensus mechanisms evolution process from voting based including PBFT RPCA SCP and CoT to proof based including PoW PoS and PoX finally optimized by fusion both voting based and proof based including PoV PPOV HotStuff Types of vulnerability for smart contracts covering solidity code EVM execution and blockchain system layers Historical trend of upgrade from electronic consensus to quantum consensus With highly comprehensive coverage of the subject Principles and Applications of Blockchain Systems serves as an ideal textbook for blockchain students and researchers and a valuable reference book for engineers and business leaders involved in developing real world blockchain systems

**Blockchain Technology Applications in Knowledge Management** Rahman, Hakikur,2024-12-18 The emergence of blockchain technology is revolutionizing knowledge management by introducing unprecedented levels of security transparency and efficiency Traditional knowledge management systems often struggle with issues of data integrity access control and collaboration among stakeholders Blockchain addresses these challenges through its decentralized and

immutable nature enabling organizations to securely share and store knowledge assets This transformation allows for real time tracking of knowledge contributions enhancing accountability and trust among users As a result blockchain technology not only streamlines knowledge management processes but also fosters a culture of innovation and knowledge sharing ultimately empowering organizations to leverage their intellectual capital more effectively **Blockchain Technology Applications in Knowledge Management** provides a comprehensive understanding of blockchain technologies for knowledge management It discusses the core features of blockchain such as decentralization immutability and transparency and how they contribute to improved data integrity and security in knowledge management systems Covering topics such as academic libraries knowledge ecosystems and supply chain management this book is an excellent resource for researchers academicians professionals graduate and postgraduate students and more

**Advances on Smart and Soft Computing** Faisal Saeed,Tawfik Al-Hadhrani,Fathey Mohammed,Errais Mohammed,2020-10-19 This book gathers high quality papers presented at the First International Conference of Advanced Computing and Informatics ICACIn 2020 held in Casablanca Morocco on April 12 13 2020 It covers a range of topics including artificial intelligence technologies and applications big data analytics smart computing smart cities Internet of things IoT data communication cloud computing machine learning algorithms data stream management and analytics deep learning data mining applications information retrieval cloud computing platforms parallel processing natural language processing predictive analytics knowledge management approaches information security security in IoT big data and cloud computing high performance computing and computational informatics

**Trends in Cloud-based IoT** Fadi Al-Turjman,2020-06-01 This book examines research topics in IoT and Cloud and Fog computing The contributors address major issues and challenges in IoT based solutions proposed for the Cloud The authors discuss Cloud smart and energy efficient services in applications such as healthcare traffic and farming systems Targeted readers are from varying disciplines who are interested in designing and deploying the Cloud applications The book can be helpful to Cloud based IoT service providers Cloud based IoT service consumers and Cloud service developers in general for getting the state of the art knowledge in the emerging IoT area The book also provides a strong foundation for researchers to advance further in this domain Presents a variety of research related to IoT and Cloud computing Provides the industry with new and innovative operational ideas Pertinent to academics researchers and practitioners around the world

*Federal Register* ,2006-08 **Blockchain Foundations and Applications** Xun Yi,Xuechao Yang,Andrei Kelarev,Kwok Yan Lam,Zahir Tari,2022-08-20 This monograph provides a comprehensive and rigorous exposition of the basic concepts and most important modern research results concerning blockchain and its applications The book includes the required cryptographic fundamentals underpinning the blockchain technology since understanding of the concepts of cryptography involved in the design of blockchain is necessary for mastering the security guarantees furnished by blockchain It also contains an introduction to cryptographic primitives and separate chapters on

bitcoin ethereum and smart contracts public blockchain private blockchain cryptocurrencies and blockchain applications This volume is of great interest to active researchers who are keen to develop novel applications of blockchain in the field of their investigation Further it is also beneficial for industry practitioners as well as undergraduate students in computing and information technology **American Poultry Advocate** ,1922 **Reliable Poultry Journal** ,1926 **Good Housekeeping**

... ,1914 **Poultry, Garden and Home** ,1908 **Blockchain Foundations** Mary C. Lacity,2020-09-25 While there are many books on blockchains this guide focuses on blockchain applications for business The target audience is business students professionals and managers who want to learn about the overall blockchain landscape the investments the size of markets major players and the global reach as well as the potential business value of blockchain applications and the challenges that must be overcome to achieve that value We present use cases and derive action principles for building enterprise blockchain capabilities Readers will learn enough about the underlying technologies to speak intelligently to technology experts in the space as the guide also covers the blockchain protocols code bases and provides a glossary of terms We use this guide as the textbook for our undergraduate and graduate Blockchain Fundamentals course at the University of Arkansas Other professors interested in adopting this guide for instructional purposes are welcome to contact the author for supporting instructional materials **Fourth Estate** ,1903 **The New Reliable Poultry Journal** ,1924

**Digital Assets and Blockchain Technology** Daniel T. Stabile, Kimberly A. Prior, Andrew M. Hinkes, 2020-07-31 This key textbook examines the financial growth and success of digital assets in the contemporary economy As digital assets and other blockchain applications mature and regulatory authorities work hard to keep pace three leading attorneys in the field invite students to consider the legal frameworks pertinent to regulating this new method of exchange In this the first textbook of its kind the authors explore the growth of smart contracts the application of securities laws to token sales the regulation of virtual currency businesses the taxation of digital assets and the intersection of digital assets and criminal law

**Hendricks' Commercial Register of the United States** ,1910 **Manford's Magazine** ,1891 **International Handbook of Blockchain Law** Thomas Richter, Matthias Artzt, 2024-08-14 Blockchain's significant advances since 2020 including a plethora of new use cases have necessitated a comprehensive revision of the first edition of this matchless resource While new chapters and topics have been added the handbook still follows the systematic and structured approach of the first edition Each contributor all of them practitioners experienced with blockchain projects within their respective areas of expertise and specific jurisdictions elucidates the implications of blockchain technology and related legal issues under such headings as the following understanding blockchain from a technological point of view regulatory aspects of blockchain smart contracts data privacy capital markets crypto asset regulation in Europe the UK and the US intellectual property and antitrust law The foundational chapter on the technical aspects of blockchain technology has been meticulously expanded to elucidate the proof of stake consensus mechanism alongside fresh insights into the ERC 721 Token Standard for

non fungible tokens decentralized exchanges staking stablecoins and central bank digital currencies As blockchain law cements itself as a distinct legal field this new edition is poised to be an invaluable asset for legal practitioners in house lawyers IT professionals consultancy firms blockchain associations and legal scholars At a depth that allows non IT experts to understand the groundwork for legal assessments the handbook provides those charting the dynamic waters of this field of law with a compass ensuring they are well equipped to tackle the legal issues raised by the usage of blockchain technology

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## **Table of Contents Lisk White Paper**

1. Understanding the eBook Lisk White Paper
  - The Rise of Digital Reading Lisk White Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Lisk White Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lisk White Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lisk White Paper
  - Personalized Recommendations
  - Lisk White Paper User Reviews and Ratings
  - Lisk White Paper and Bestseller Lists
5. Accessing Lisk White Paper Free and Paid eBooks
  - Lisk White Paper Public Domain eBooks
  - Lisk White Paper eBook Subscription Services
  - Lisk White Paper Budget-Friendly Options
6. Navigating Lisk White Paper eBook Formats



- ePub, PDF, MOBI, and More
- Lisk White Paper Compatibility with Devices
- Lisk White Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lisk White Paper
  - Highlighting and Note-Taking Lisk White Paper
  - Interactive Elements Lisk White Paper
- 8. Staying Engaged with Lisk White Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lisk White Paper
- 9. Balancing eBooks and Physical Books Lisk White Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lisk White Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lisk White Paper
  - Setting Reading Goals Lisk White Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lisk White Paper
  - Fact-Checking eBook Content of Lisk White Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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