



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in>)

## Patent Search

Invention Title	IMPLEMENTATION OF BLOCK CHAIN SECURITY SCHEME TO SUPPORT FOG BASED INTERNET OF THINGS
Publication Number	33/2023
Publication Date	18/08/2023
Publication Type	INA
Application Number	202341032825
Application Filing Date	09/05/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04W0012420000, H04W0012600000, H04L0067100000, H04W0012060000, H04L0069180000

### Inventor

Name	Address	Country
Dr.Yaswanth Kumar Avulapati	Academic Consultant, Dept of Computer Science, S.V.U. College of CM& CS, S.V. University, Tirupati, Andhra Pradesh, India.	India
Manne Renuka	Assistant Professor, ECE, Vjit, Hyderabad, 500075, Ranga Reddy, Telangana, India.	India
Dr. Swarna Priya RM	Associate Professor/ School of Information Technology and Engineering, Vellore Institute of Technology, Vellore 632014, Tamilnadu, India.	India
Nalineekumari Arasavali	Assistant Professor/Electronics and Communication Engineering, Dadi Institute of Engineering and Technology, Anakapalle, 531001, Andhra Pradesh, India.	India
Dr. S. Thamizharasan	Assistant Professor, Department of Computer Applications, Rajiv Gandhi College of Engineering and Technology, Kirumampakkam, Pondicherry-607403, India.	India
Dr. Padmavathi J	Associate Professor, Department of Computer Science, Chennai, Tamilnadu, India.	India
K. Deepa	Assistant Professor / IT, St. Joseph's College of Engineering, OMR, Chennai -119, Chennai, Tamilnadu, India.	India
GBSR Naidu	Sr. Asst. Professor, ECE Dept, GMR Institute of Technology, Rajam, 532127, Andhra Pradesh, India.	India
Dr.P.M.K.Prasad	Associate Professor & HOD, GVP College of Engineering for Women, Visakhapatnam-530048, Andhra Pradesh, India.	India
Dr. Nagsen Samadhan Bansod	Assistant Professor, Dr. G. Y. Pathrikar College of Computer Science and Information Technology, MGM University, Chhatrapati Sambhajinagar, 431002, Maharashtra, India.	India
Arunkumar S	Assistant Professor II, Department of EEE, Kumaraguru College of Technology, Coimbatore 641049, Tamilnadu, India.	India
Chtakunta Praveen Kumar	Assistant Professor, Department of Computer Science and Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Malkangiri, Telangana, Pin500043, India.	India

### Applicant

Name	Address	Country
Dr.Yaswanth Kumar Avulapati	Academic Consultant, Dept of Computer Science, S.V.U. College of CM& CS, S.V. University, Tirupati, Andhra Pradesh, India.	India
Manne Renuka	Assistant Professor, ECE, Vjit, Hyderabad, 500075, Ranga Reddy, Telangana, India.	India
Dr. Swarna Priya RM	Associate Professor/ School of Information Technology and Engineering, Vellore Institute of Technology, Vellore 632014, Tamilnadu, India.	India
Nalineekumari Arasavali	Assistant Professor/Electronics and Communication Engineering, Dadi Institute of Engineering and Technology, Anakapalle, 531001, Andhra Pradesh, India.	India
Dr. S. Thamizharasan	Assistant Professor, Department of Computer Applications, Rajiv Gandhi College of Engineering and Technology, Kirumampakkam, Pondicherry-607403, India.	India
Dr. Padmavathi J	Associate Professor, Department of Computer Science, Chennai, Tamilnadu, India.	India
K. Deepa	Assistant Professor / IT, St. Joseph's College of Engineering, OMR, Chennai -119, Chennai, Tamilnadu, India.	India
GBSR Naidu	Sr. Asst. Professor, ECE Dept, GMR Institute of Technology, Rajam, 532127, Andhra Pradesh, India.	India
Dr.P.M.K.Prasad	Associate Professor & HOD, GVP College of Engineering for Women, Visakhapatnam-530048, Andhra Pradesh, India.	India
Dr. Nagsen Samadhan Bansod	Assistant Professor, Dr. G. Y. Pathrikar College of Computer Science and Information Technology, MGM University, Chhatrapati Sambhajinagar, 431002, Maharashtra, India.	India
Arunkumar S	Assistant Professor II, Department of EEE, Kumaraguru College of Technology, Coimbatore 641049, Tamilnadu, India.	India
Chtakunta Praveen Kumar	Assistant Professor, Department of Computer Science and Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Malkangiri, Telangana, Pin500043, India.	India

#### Abstract:

IMPLEMENTATION OF BLOCK CHAIN SECURITY SCHEME TO SUPPORT FOG BASED INTERNET OF THINGS A method in order to coordinate device onboarding between Internet of Things (IoT) Fog users, a 3-way authorization protocol is utilized. For instance, distinct Fog "owners" like specific users and clients may be assigned to unde onboarding procedures. A service coordinating entity device consists of processing circuitry, a memory device, and communications circuitry for interacting with a first network. The processing circuitry will carry out operations to retrieve a first Trusted Level Agreement (TLA) including trust attributes related to the first access network to a request for connecting with a user equipment (UE) in a second access network. The processing circuitry will carry out actions to keep track of the several NFV inst recorded performance metrics. A corresponding scheduler from a group of schedulers on the virtualization infrastructure of the service coordinating entity creates ex NFV instances. The system is executing field updates of a connected component, like a battery, while also doing authenticated firmware updates on a fog or IoT device

#### Complete Specification

Description:IMPLEMENTATION OF BLOCK CHAIN SECURITY SCHEME TO SUPPORT FOG BASED INTERNET OF THINGS

#### BACKGROUND

##### Technical Field

[0001] The embodiments herein generally relate to an implementation of block chain security scheme to support fog-based internet of things.

##### Description of the Related Art

[0002] A method IoT devices are real-world or virtualized items that may interact over a network and contain sensors, actuators, and other input/output devices to data or carry out tasks. MEC is designed to assist in the development of mobile edge computing use cases, enabling IT service providers and application developers access computing resources in real-time at the network's edge. In order to reduce application latency, enhance service capabilities, and better comply with security privacy regulations, edge computing, on a more general level, refers to the movement of compute and storage resources closer to, or into, smart endpoint devices. are now a very big number of connected resources, however they are not available to the general public. For anonymity, peer-to-peer relays are frequently used in corporate networks, private organizational control networks, and global monitoring networks. To connect and run IoT devices and network use cases more effective number of standards have been proposed. In light of this, it is necessary to consistently update and reinvent the combat data security protection system as information technology changes. The hashed master key value to generate the unique private key once more, hashes the private key to produce the public key, and then does the with the public key to produce the unique wallet address.

[View Application Status](#)



**Department of Industrial  
Policy and Promotion**  
Government of India

Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019