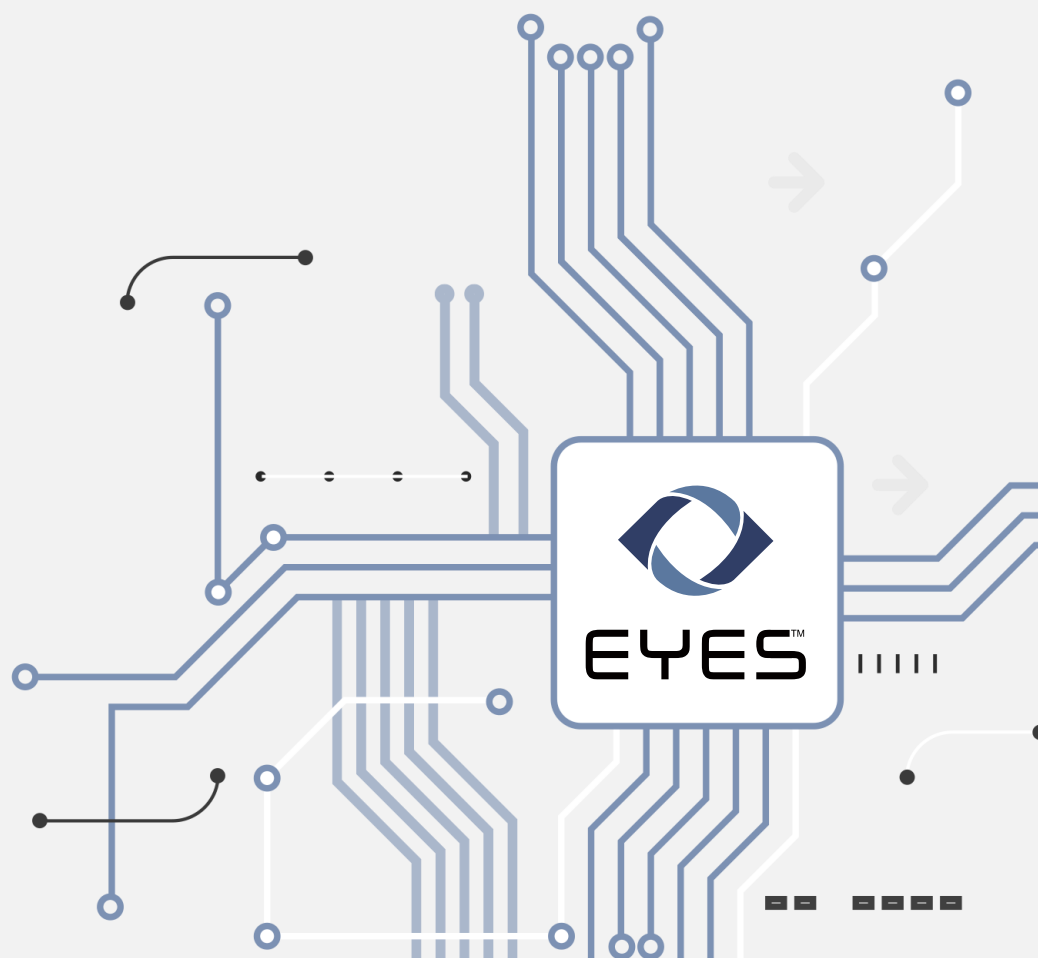# EYES™

WHITEPAPER

EYES™PROTOCOL
Born to open source

EYES™ LTD

Creating an Open Source Ecosystem that is safe and free.

In the era of the fourth industrial revolution, market competition becomes increasingly informationized, and enterprises focus on more software competition in order to occupy a place in the new era.

Recently, AI, Cloud Computing, Big Data, IoT, and Blockchain have been rapidly growing as leading technologies for the 4th industrial revolution. As these technologies are all based on Open Source software, its importance is actively discussed as a solution to have a competitiveness in software industry.

Nowadays, over 90% of commercial software or SW development projects use Open Source. The reasons for this increased use of open Source are as follows: reduced development period, improved performance of a software by applying advanced technology, and acquisition of development efficiency for the developer.

However, in order to exercise one's rights to freely use, modify, and distribute the Open Source, the one must follow the open Source license conditions according to the request of the original developer. There are increased number of cases for the legal disputes because some source codes have been used purposely or accidently without following these license conditions.

Also, as Open Source has been spotlighted in the Software Ecosystem, a threat on security vulnerability is also highly increasing. The security vulnerability discovered in early 2018 was 3,157, whereas the total numbers discovered were 4,800 in 2017, and 3623 in 2016, increasing at the rate of 130% annually. (during 2017 was around 4,800 and 3,623 up to 2016.) Considering these numbers, a fast solution is urgent for the security vulnerability.

EYES Protocol is based on FOSSGuard - the self solution of LSware (the SOLE company in Korea performing Open Source SW License Inspection and Verification Consulting). EYES Protocol manages the Open Source within the software produced by a company or individual through the FOSSGuard.com service of cloud environment and FOSSGuard, the open license verification and vulnerability management solution. Each Open Source information is applied to Blockchain to provide reliable information such as Open Source license, modification of source code, (or regarding) security vulnerability, and etc.

Creating an Open Source Ecosystem that is safe and free.

Eyes Protocol support to expand open source ecosystem by helping to utilize open source safe and freely and remoing trouble issues when using open source.

Unlike previous systems, the EYES protocol develops open source resources from an open, shared, decentralized, transparent, and impartial point of view, giving preferential treatment to developers. At the same time, many enterprises and ordinary people will also share and develop open source resource information through the EYES CHAIN, making the open source ecosystem more active. Part of the revenue generated through the EYES Protocol will be used to maintain and develop this open-source ecosystem, eventually completing the open-source virtuous cycle.

EYES will also set up a decentralized code rating system based on the codes on the market at the present stage and those submitted to the agreement, taking advantage of its own code advantages and AI capabilities. At the same time, EYES CHIAN, built on the basis of EYE protocol, can activate the ecosystem and form a virtuous cycle, and activate the use of EYES through relevant services, so as to build a compliant and safe application Ecosystem while providing open source authorization and vulnerability verification services for the vast market.

EYES Protocol will provide support for various open-source communities and consulting on open-source projects, while leading the distributed open-source Rating platform combined with AI technologies. We will lead the revolution in the software market by focusing on the qualitative assessment of open source code, and by providing a new level of scientific and efficient code rating with grafted community governance and AI technologies. It is totally different from traditional Rating assessments.

Main Terminology of EYES Project

EYES PROTOCOL

The Blockchain system transparently managing the details of verifications of security vulnerability and Open Source license based on FOSSGuard

EYES Token (ERC-20)

ERC-20 Token that can be used in EYES Protocol

EYES COIN

EYES Token will be called EYES Coin after Mainnet

INDIVIDUAL CONTRACT

Has information regarding Open Source in each block as a method to store technology and system of EYES Protocol in the token

FOSSGUARD

Package product of LSware that verifies security vulnerability and Open Source license compliance

OPEN SOURCE (OPEN SOURCE SOFTWARE)

Type of software that copyright owner provides authority to change and distribute software to other people for various purposes. Representative Open Source projects include Linux Kernel, Apache httpd web server, OpenSSL and etc.

OPEN SOURCE LICENSE

Type of software license that allows the use, modification, and redistribution of source code according to the conditions as defined by the Open Source developer. User shall follow the license rules prescribed by the developer. If not, it may result in license violations and copyright infringement, and may result in liability.

Main Terminology of EYES Project

OPEN SOURCE LICENSE VERIFICATION

An operation to confirm whether the software complies to the serial Open Source license rules.

OPEN SOURCE LICENSE COMPATIBILITY

A legal framework to distribute software with difference Open Source licenses. A software cannot be distributed if compatibility collisions occur.

SPDX(SOFTWARE PACKAGE DATA EXCHANGE)

A standard file format, produced by SPDX Working Group of Linux Foundation, for documenting various information such as a license included in distributed software.

SECURITY VULNERABILITY

Source code injected in the software to perform unauthorized work. It is a weakness that can be exploited by an attacker, such as a hacker.

MARKET PLACE

Refers to service sites where various trades occur. Such as electronic commerce sites, online education sites, online shopping malls, etc.

DECENTRAZLIED RATING PLATFORM

Rating system that provides easy recognition of software quality by using powerful code audit technology of EYES Protocol service. It provides reliable scientific and technical reviews by evaluating open source projects and source codes based on community governance and AI technology.

EYES Zone

Refers to a collection of external services that accompany the ecosystem of EYES Protocol, and a variety of market place services can be 'EYES Zone certified' which will naturally become a channel for EYES distribution. With the EYES Protocol service, EYES Zone will be formed to secure the safety of open source licenses and vulnerabilities at a small cost and to facilitate EYES distribution.

Contents

1-
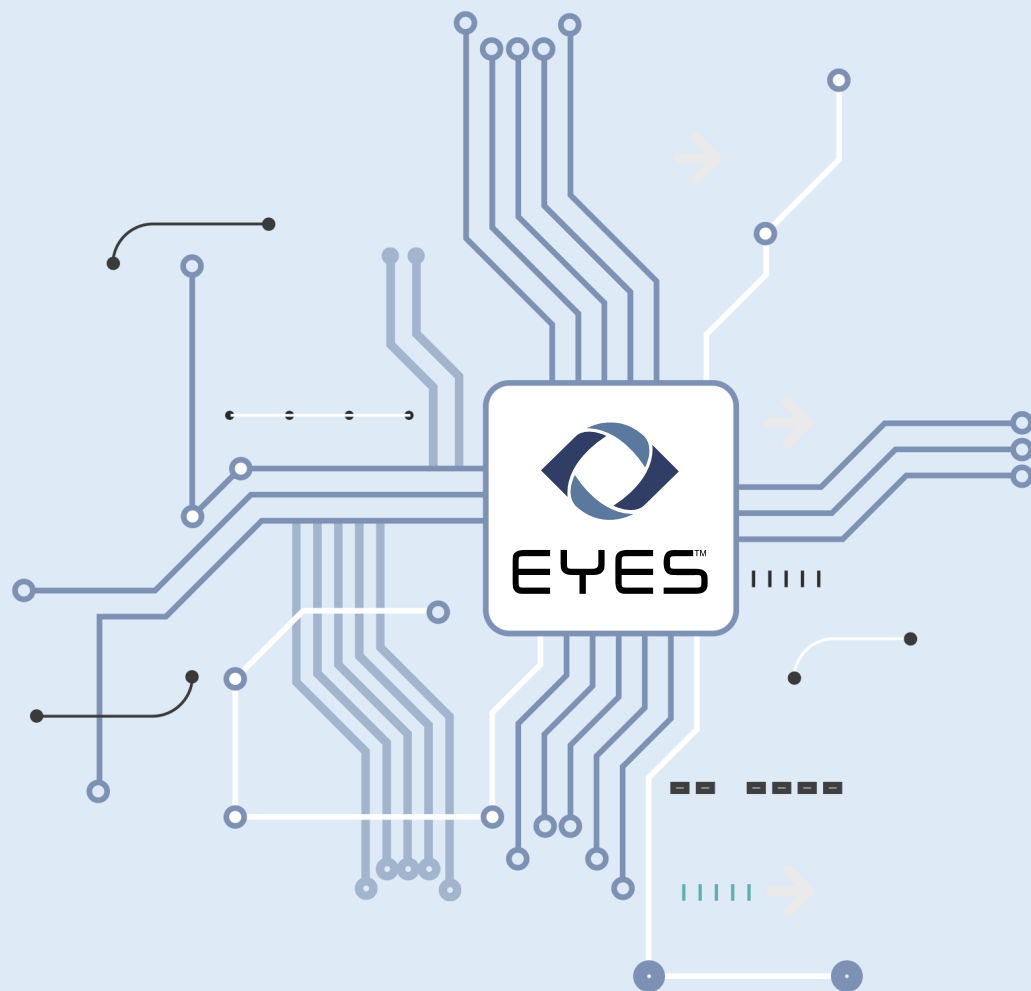# About the Industry

Just Moving, but with Infinite Possibilities

1-1

Significance of the Open Source Market

Significance of the Open Source Market

As the 4th Industrial Revolution approached rapidly, Blockchain has risen as the core of change. In order to get along with this trend, many companies are discussing about the integration of Blockchain to the existing software, and many of them have already attempted to change. Currently over 96% of commercial software use open Source, and 57% of codes used within software are open Source codes. According to a report (CORSI, Synopsys, 2018), 78% of open Source have more than at least one security vulnerability. As such, majority of the software overwhelmingly relies on Open Source, which is the same case for the development of cryptocurrencies.
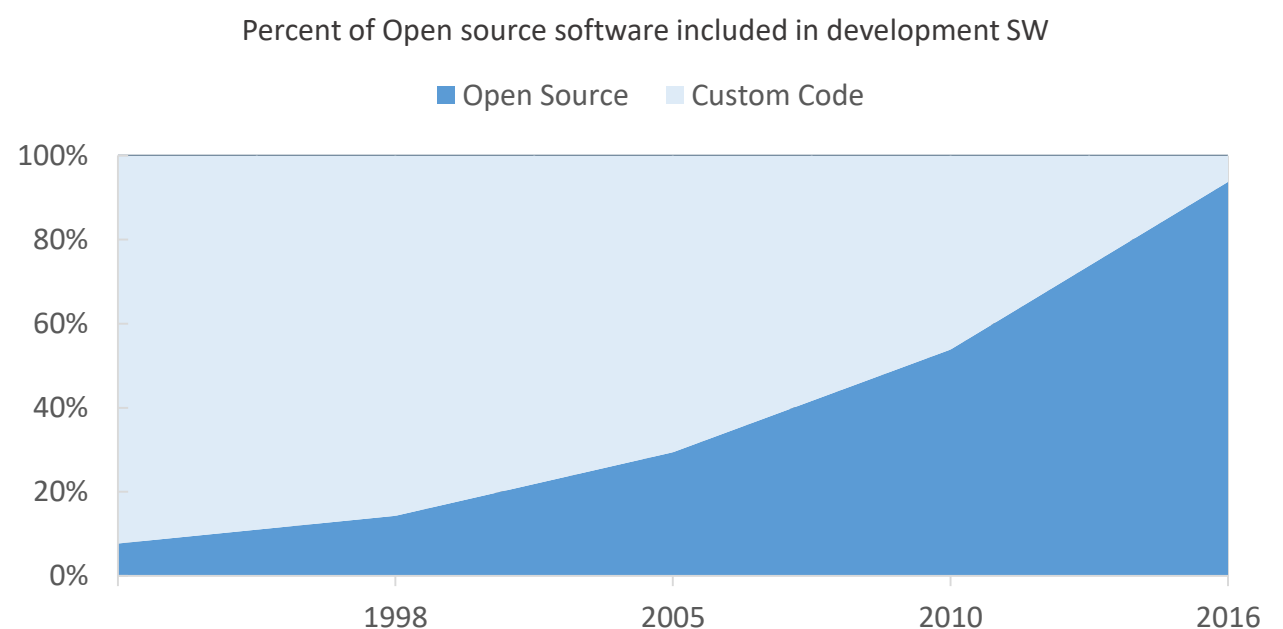
1-2

Trend of the Open Source Market

Trend of the Open Source Market

Companies that lead the Open Source market are one of the biggest companies in the world. The representative companies that make the Open Source market include IBM and Google. IBM is currently the largest sponsor of open source project and took over Red Hat, an open source giant company, for $ 34 billion (\ 40 billion) in 2018. and Google opened 'Google Open Source' website to share all their source codes through Open Source. The most conservative and monopolistic MicroSoft also took over Open Source code storage 'GitHub' for 75 billion dollars and jumped into the Open Source market. Like this, the Open Source market is growing tremendously.

1-3

Open Source Market Size

Open Source Market Size

Percent of Open source software included in development SW

■ Open Source ■ Custom Code

(Source:Internet Data Center, Gartner)

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Open Source Market Size
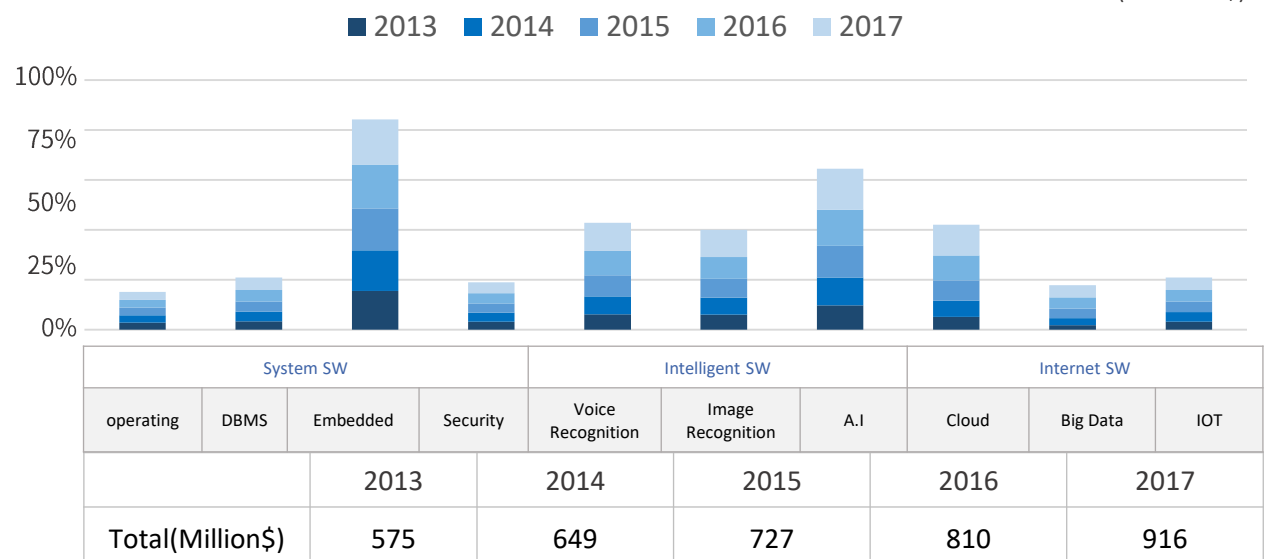
2016~2017 World IT & OSS Market Size (unit:Billion $)
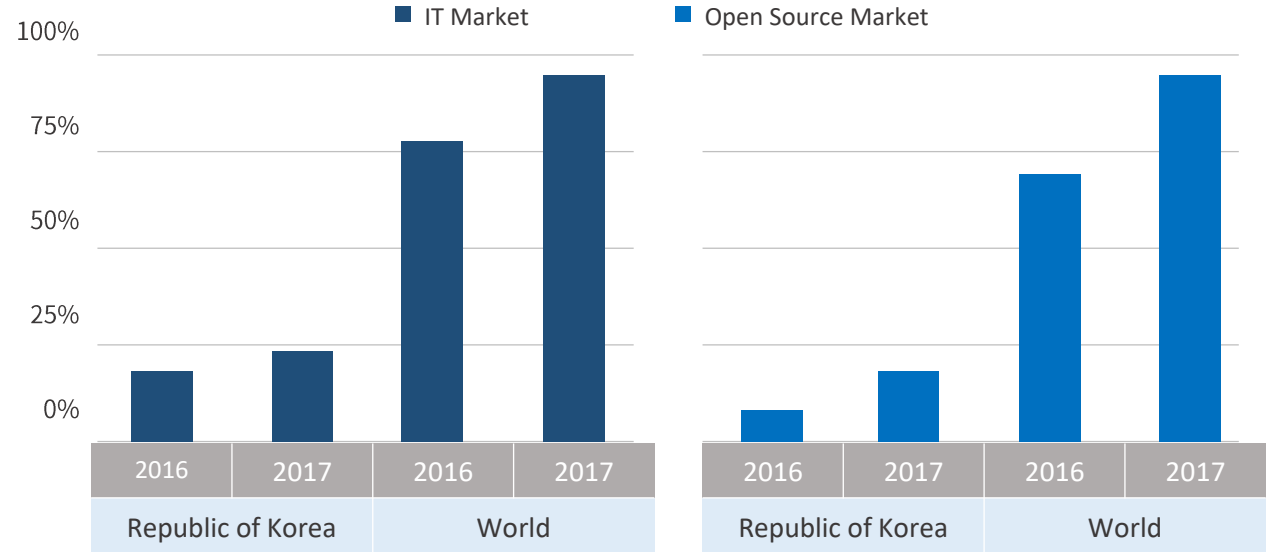
	IT Market		Open Source Market	
	2016	2017	2016	2017
World (Billion$)	3,400	3,500	67.4	75
ROK	67.8	70	0.14	0.16

(Source:Internet Data Center, Gartner)

According to IDC and Gartner in 2018, the world's Open Source market was 90 trillion KRW (78 billion dollars) as of 2017 and the Korean market was reported to be 180 billion KRW (163 million dollars). Especially, the Korean market shows 15.2% higher annual average growth. Also, the global size of IT market, including the open Source market, has reached 3.889 quadrillion KRW (3,477 billion dollars), and this size is 9 times greater than the semiconductor market and 8 times greater than the mobile phone market. The companies that presently lead the IT&SW market include Google, Apple, MicroSoft, IBM, and Oracle. These companies all use Open Source to produce software and they are leaders in composing the open Source market as well.

Industry-specific market size changes related to the fourth industry (unit:0.1M $)

System SW				Intelligent SW			Internet SW		
operating	DBMS	Embedded	Security	Voice Recognition	Image Recognition	A.I	Cloud	Big Data	IOT

	2013	2014	2015	2016	2017
Total(Million$)	575	649	727	810	916

(Source:Internet Data Center, Gartner)

1-4

Issue of the Open Source Ecosystem

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If the core of the 4th industrial revolution include AI technology and Blockchain, the foundation of the 4th industrial revolution is Open Source. The market size regarding the 4th industrial revolution has shown annual growth rate of over 10%, and open source market is showing rapidly growth rate of 15.2%. The open Source market is expected to grow at faster rate as products related to Blockchain, artificial intelligence, big data, Cloud, and IoT are commercialized for practical use in life.

Issue of the Open Source Ecosystem

- Developers usually utilze from thousands to millions of lines of source code to develop a software. There is a case that is a simple repetitive work and high difficulty to take a lot of time to development software. Also, it takes long time if there are too many bugs to modify. Fortunately, developers can download necessary source codes form online instead of creation and utilize as components of in softwares since 1980s free SW and open source SW received attention. However, open Source must follow each license that producer configure range. So, using open source, user must announce it sage according to license. Some license require to make the public whole source codes. In this way, users can inviolate license without recognition and some users used to hide about using open source. Finally, there is now way to recognize that violation fact for sellers and buyers of SW and then they can take disadvantages.

- License issue: anyone can utilize open source freely, but it has the limitation. All creations Just like all creations have copyrights, Open Source also has copyrights. So, open source license institutions hand out to protect license for Open Source copyright holder. Like this, users have obligation to notify usages when they distribute SW utilizing open source and then they must comply with license. There are a lot of sold SW without fullfinment open source license because, there is insufficient recognition that is occur problems not followed license. It is high risk of taking legal responsibility in the future. If open source is used without complying to its license, the developer who used it can be ordered to take actions on license violation from license violation surveillance organization. Additional civil procedure may follow if no actions has been taken after the warning, and the sales of SW could be prohibited. In fact, a global company 'A' violated GPL license and was ordered to prohibit sales, share profit, compensate for damages and etc with 14 companies. Also, 'B' coporation violated GPL license and paid $2 million as settlement cost, and 'C' limited was sued for he same reason in Germany Like this, not following open source license can damage company image, delay business plan, create money loss and even withdrawal from business.

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1-4

Issue of the Open Source Ecosystem

- License collisions occur frequently. According to a report, 96% of SW have open source components, and 74% of them have license collisions (2018, COSRI, Synopsys). Also, 53% of SW have unknown license, and this means that there is no information about permission from copyright owner to use, modify and distribute SW, and has potential lawsuit risks.

- Vulnerability Issue: As Open Source ecosystem develop, Open Source security vulnerabilities such as HeartBleed, ShellShock and Venom have been found and threats from hackers are increasing. In 2017, U.S. Credit Reporting Agency, Equifax, suffered from data breach through Open Source security vulnerability which resulted in the hacking of 150 million client information. From a hacker point of view, the Open Source is open for various analysis and it becomes an easy victim. As many companies use the open Source, there are also many cases where it is exposed to hacking due to careless handling of its security. Therefore, it is important to quickly discover security vulnerability of the Open Source and take appropriate actions to remove it.

- The discovery rate of security vulnerability in applications that use Open Source is more than 78%. In many cases, the related security vulnerability was exposed for more than an average of 4 years and have become the target of hackers. The average number of security vulnerability discovered in each application was 27, and 52.6% of the discovered security vulnerability was classified as high-risk vulnerabilities according to National Institute for Standards and Technology (NIST). Thus, the protection for security vulnerabilities are not well-prepared in commercial applications.

- According to the market investigation institute Gartner, it has been investigated that 75% of all cyber-attacks are due to security vulnerability of the SW. From December, 2017, more than 76,000 security vulnerabilities of Open Source has been revealed by NVD (National Vulnerability Database), and among 7,341 of them discovered in first half of 2018, 43% (3,157) is open Source vulnerability. The numbers have increased over 130% from 2017, and over 54% of them are classified as high-risks (COSRI, Synopsys, 2018)

Just Moving, but with Infinite Possibilities

1-5

Solution

Solution

- As the 4th Industrial Revolution approached rapidly, Blockchain has risen as the core of change. In order to get along with this trend, many companies are discussing about the integration of Blockchain to the existing software, and many of them have already attempted to change. Currently over 96% of commercial software use open Source, and 57% of codes used within software are open Source codes. According to a report (CORSI, Synopsys, 2018), 78% of open Source have more than at least one security vulnerability. As such, majority of the software overwhelmingly relies on Open Source, which is the same case for the development of cryptocurrencies.

- As the ratio of developing software by using open Source has increased rapidly, the demand for reliable and high-quality Open Source has also increased. In order to meet this demand, the open source license and security vulnerabilities need to be managed from the development stage. Managing after the completion of software costs more money and have a risk of disposing all of developed source codes. Thus, the necessity for open Source license compliance has increased in order to manage open Source license throughout a software's LifeCycle.

- For this reason, the necessity for SCA (Software Composition Analysis), an open Source vulnerability and license compliance analysis platform, has also increased in order to manage open Source security vulnerabilities of source codes from the introduction stage. EYES Protocol uses open source to verify, and consult software throughout its lifecycle, prevent license violations, and support modifications to free developers from legal risks.

- Although EYES Protocol builds large DBs through crawling-based data collection, it is impossible to collect all open sources because open sources are created continuously at this moment. To resolve this, we will reward numerous users when they contribute in EYES through this, we will create a block-chain ecosystem that allows more open source to be shared.

1-6

Necessity of EYES Protocol

Necessity of EYES Protocol

- As the use of Open Source increases, the number and size of lawsuits related to Open Source license also increase along with diverse attacks from hackers. EYES Protocol prevents these risks ahead of time and consult users from production stage at a very reasonable price for them to easily develop high-quality software. In addition, the software can earn its trust in the market through verification of license regulation compliance, and new updates and detected vulnerabilities of used open source are informed through blockchain without maintenance professionals, thus providing continuous and efficient management.
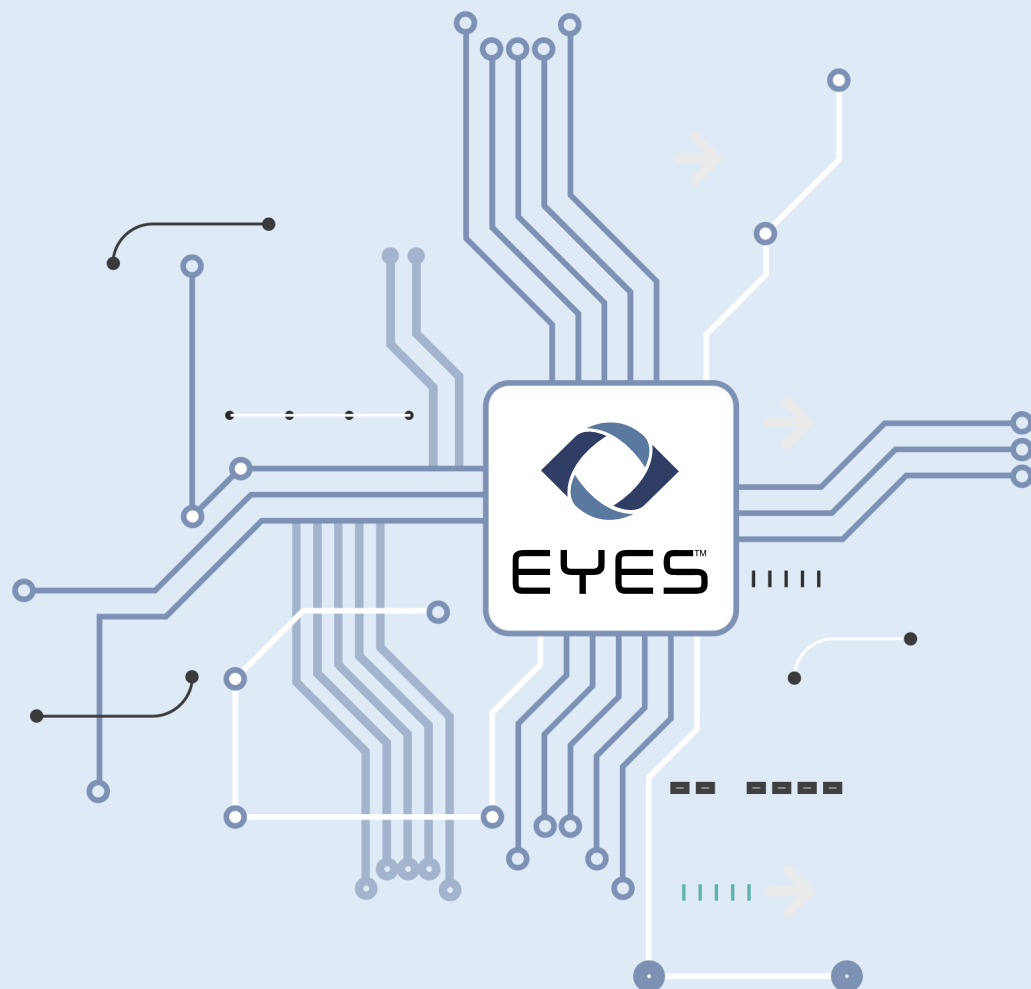
2-
About EYES Protocol

2 About EYES Protocol

Safe Companion of Open Source Software

Vision and Goal of EYES Protocol

- Currently, most of the software is developed by using Open Source. EYES will build a structure where both user and manufacturer do not take any financial damage through fair and transparent open Source license ecosystem according to the change of the environment.

- Many commercial software used by companies are made from Open Source. By providing the EYES Protocol service to the software to companies, it is possible to reduce cost.

- EYES protocol will help our users to understand the Copyrights and suggest new standards for activating open-source-based ICT market through easy management of open source license.

- By using the Blockchain technology and enhanced search methods based on AI, we will provide a trustworthy development environment which allows total management of license verification, consulting, vulnerability inspection and modification, etc., from the early stage of development.

- Thus, Every open source is totally disclosed and possible to be used use freely and safely on they EYES Protocol ecosystem.

2-1

Vision and Goal of EYES Protocol

Aspect on Investment of EYES Protocol

- Expansion of the Open Source Market

Software market using Open Source is continuously expanding and spreading to be used easly for developers to the World. Therefore, the increasing open source consulting demand for replaceing expensive commercial software to open Source, growing demand of EYES Protocol. EYES Protocol is expected to become increasingly necessary due to the nature of the open source market, which expands more and more as open source software develops.

- Issue on Copyrights

Blockchain technology is advancing rapidly, and its vision and value is incomparable to other industries. As the Blockchain technology which is based on open source, is expanding as the 2nd internet, and using the open source for development is becoming daily routine, open source license and copyrights disputes will also increase. Thus, the demand of EYES Protocol Service will increase more and more to verify the open Source license and copyrights issue.

2-2

Aspect on Investment of EYES Protocol

2-2

Aspect on Investment of EYES Protocol

2-3

Value of EYES Protocol

Safe Companion of Open Source Software

- Improving objectivity of software quality through decentralized rating

The certification mark and rating of EYES Protocol will be the objective and scientific standard of the software quality. More companies will use EYES service to get a higher rating and will prefer to enter the EYES Zone. Consumers may experience anxiety and avoidance when using products that do not have EYES certification marks and ratings. Eventually, in the future, all software will be required to acquire EYES certification mark.

Value of EYES Protocol

- Trust: Providing the trust in crypto assets market.

EYES Protocol provides reliable index to prove values of crypto market. Currently, the market is not institutionalized and there are no regulations, because, people can only invest their money through reading whitepapers, taking information, and this lowers the success rate of investment remarkably. EYES Protocol provides the basis for investment decisions based on technologies and services that investors can trust. Furthermore, it can make trustworthy basis for crypto market.

- Safety: Providing a safe environment for developing software.

EYES Protocol provides a safe environment for developers to use open Source more freely. The EYES Protocol is not limited to verifying the open Source license used by developers. Using the open Source of developed software, it can also build a safe open Source ecosystem by providing a comprehensive consulting for license compliance, vulnerabilities, and code modification. The 4th Industrial Revolution will accelerate on top of the EYES Protocol and people can enjoy the use of safer software.

- Sharing: Providing a free open Source ecosystem.

EYES Protocol provides community ecosystem for transparent and free development based on open source. A community will be formed to facilitate communication between developers and users. In addition, we will establish a self-sustaining community ecosystem where people can easily share and study knowledge of open source, coding and blockchain.

- Intuitive and Objective : Users can see high-quality software at a glance.

It is difficult for an average person to distinguish between high-quality and low-quality software. As they simply trust and use, they are suffering from too much damage such as personal information theft and hacking. EYES Protocol will combine a strong technical background with decentralized governance code rating to build a systematic code audit platform and then move to an objective and valid rating platform using AI. Once the EYES Rating Platform is established, consumers can see at a glance whether the software they need to use is secure.

Safe Companion of Open Source Software

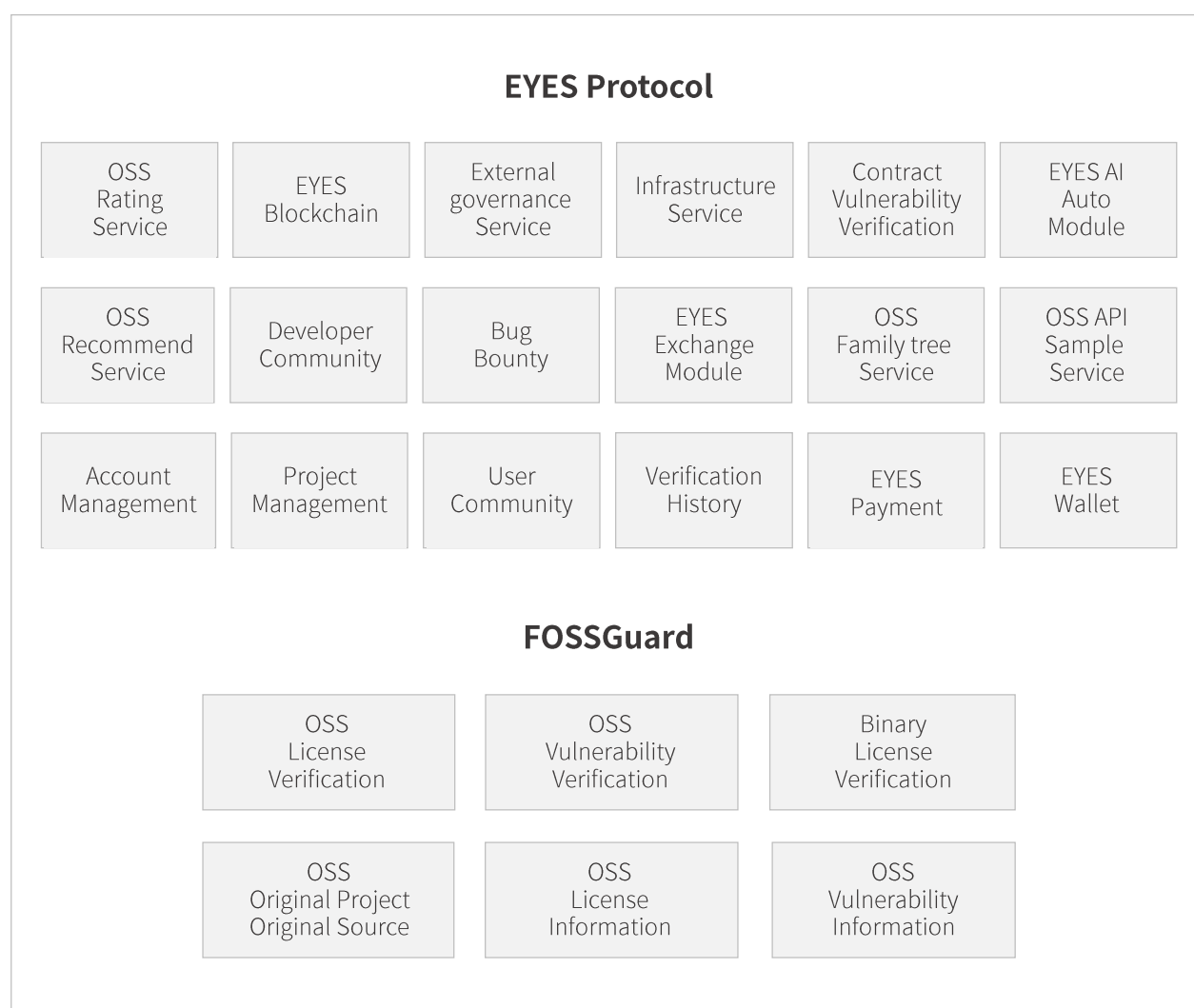### 2-3 Value of EYES Protocol

- Virtuous Cycle Orientation

Based on self-produced free open Source ecosystem of the EYES Protocol, the expensive commercial software can be replaced by open Source software, and this gives cost reduction for companies and provides high-quality software at reasonable price to consumers. In addition, EYES Protocol will activate open Source ecosystem by expanding its service to small companies and individual developers. The open Source data(SPDX, etc.) created in this process will be recorded in the database(Wisdombase) of the EYES Protocol and utilized to build a virtuous cycle.

- Service Organization of EYES Protocol

2-4 Service Organization of EYES Protocol

EYES Protocol is complete by combining FOSSGuard product that provides the basic functionality with the EYES Protocol's extensible service. In addition to the FOSSGuard product, which inspects open source licenses and vulnerability as a core function, the functions such as project management, project inspection history, EYES payment, developer community and bug bounty for contribution and sharing, open source recommendation services, and infrastructure architecture services are provided. These functions are embodied in EYES Protocol services using Blockchain, SPDX, and Smart contact technologies.

EYES Protocol

OSS Rating Service	EYES Blockchain	External governance Service	Infrastructure Service	Contract Vulnerability Verification	EYES AI Auto Module
OSS Recommend Service	Developer Community	Bug Bounty	EYES Exchange Module	OSS Family tree Service	OSS API Sample Service
Account Management	Project Management	User Community	Verification History	EYES Payment	EYES Wallet

FOSSGuard

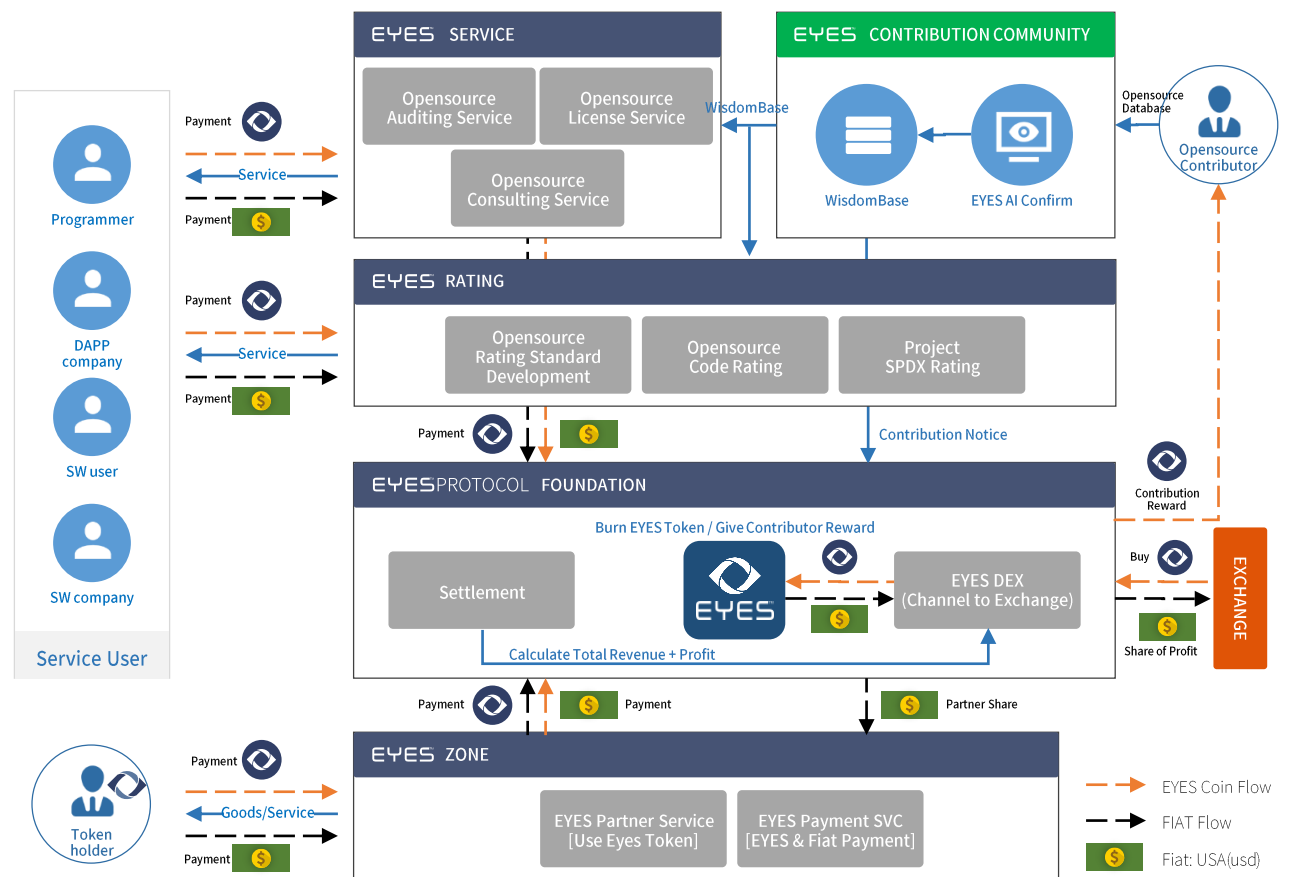|		
OSS License Verification	OSS Vulnerability Verification	Binary License Verification
OSS Original Project Original Source	OSS License Information	OSS Vulnerability Information

3-
EYES Protocol Token Economy & Business Model

EYES Protocol Token Economy & Business Model

3-1

EYES Economy

EYES Economy

- The EYES economy consists of the EYES CHAIN and the EYES PROTOCOL SERVICE. The value in the main network of EYES is transferred by EYES COIN.
- EYES PROTOCOL SERVICE is an open source code auditing platform. Users pledge a certain amount of Coin and can use this platform for auditing. The corresponding Token can be obtained by the experts participating in the audit according to the setting of Smart Contract. At the same time, the open source data of enterprise, personal software, open source software and other software stored in WisdomBase will be stored in each block one by one, and the developers will upload codes, and after EYES audit, EYES COIN will be distributed as a reward. As WisdomBase grows, we will accumulate large amounts of highly trusted open source data. The more people involved in an ecosystem, the better the performance, and that is the value of EYES.
- EYES Zone is the connection point between the EYES Token and the product of user who received EYES Protocol Service. Consumers who use the product can make payments with EYES Token, receive EYES Token with points, mileage, and so on.

- Burning

Each quarter, EYES Protocol uses 20% of its net income to buyback and burn EYES. It will be continued until 50% of total number of issued EYES are burned, and 10% of burned amount is rewarded to contributors of ecosystem.

Main network revenue: service cost of EYES PROTOCAL and GAS will be the consumption of the EYES CHAIN.

EYES Protocol Token Economy & Business Model

3-1

EYES Economy

- EYES DEX

EYES DEX is a decentralized token swap system. It is a system that can convert the EYES Token received in the form of mileage, cash back, points, etc. while using the services of EYES Zone to the EYES internal stable token or it can also be swapped with agreed external stable coin such as Maker DAI.

- Token Reward for Contributing to Maintenance of the Ecosystem

To maintain the Open Source Ecosystem, 50% of total issued amount will be rewarded to contributors. Maintenance tokens can be received by contributing to the ecosystem maintenance as follows.

For the EYES Protocol System to be activated and improved for verification of all open Source licenses, it needs as many open Source data as possible. To encourage this, we will provide EYES as compensation to 'Information Provider' who provides open Source data, and 'Information Verifier' who verifies the open Source data in EYES Protocol.

1) WisdomBase DB Provider

This is the method of creating an ecosystem by providing license information and open Source software to the WisdomBase, the open Source database of EYES Protocol. This is processed by using self-developed service from EYES Protocol, and provided open source or license information is verified for validity through EYES AI. If the information is valid, EYES Protocol will provide EYES to informants in accordance with the information provided.

2) Error Information Verifier

The hugh open source information is saved in Wisdome Base what is named of data base. Also, it can be saved inaccurate data, because of collection continuously. Thus, when users find out and report error contents of the registered open source information, after validation of EYES AI, EYES will be paid as compensation for contributing to the ecosystem maintenance.
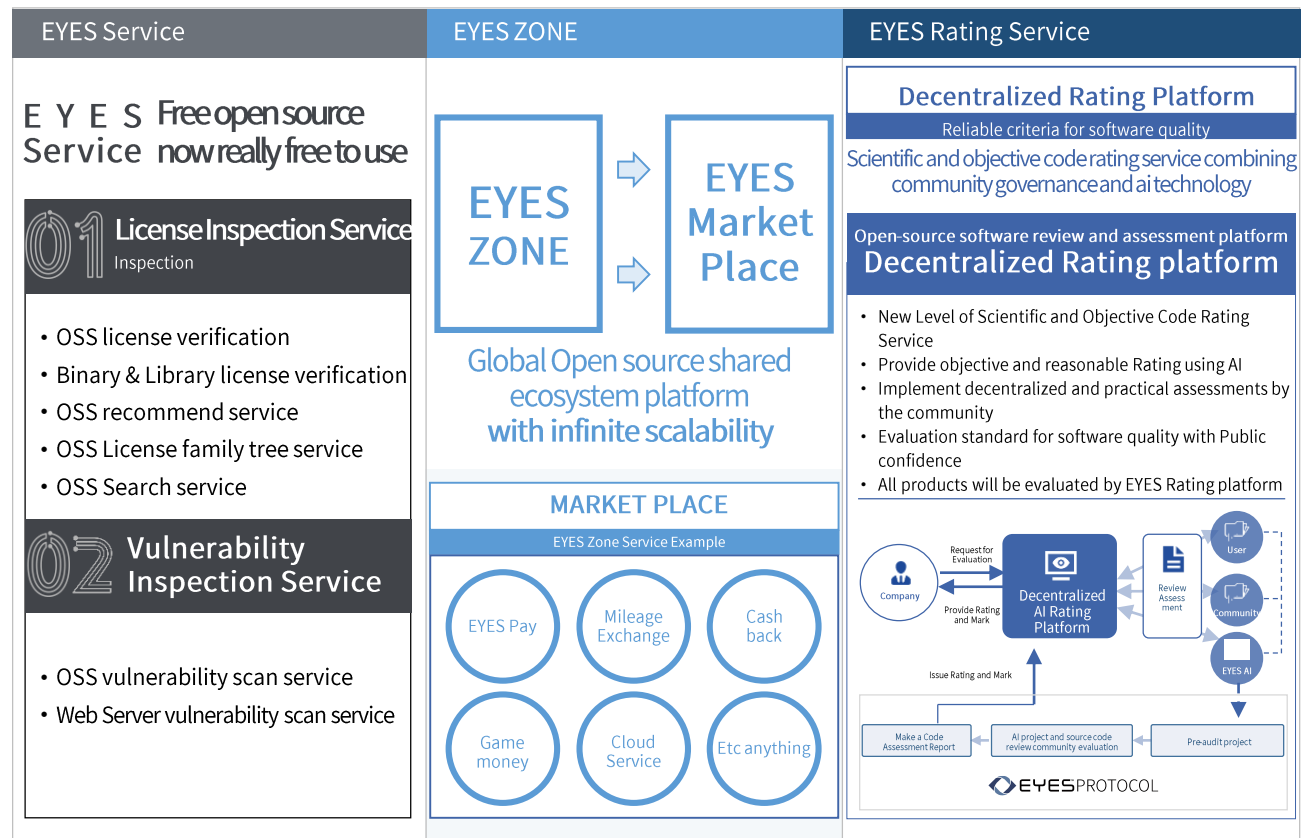
EYES Protocol Token Economy & Business Model

3-2

EYES Business Model

EYES Business Model

We define Business Model of EYES Protocol as the following.

- EYES Protocol Ecosystem. Every form of open-source-based service.

EYES Service	EYES ZONE	EYES Rating Service
E Y E S Free open source Service now really free to use		**Decentralized Rating Platform**
	EYES ZONE ⇒ EYES Market Place ⇒	Reliable criteria for software quality
01 License Inspection Service Inspection		Scientific and objective code rating service combining community governance and ai technology
• OSS license verification • Binary & Library license verification • OSS recommend service • OSS License family tree service • OSS Search service	Global Open source shared ecosystem platform with infinite scalability	Open-source software review and assessment platform **Decentralized Rating platform** • New Level of Scientific and Objective Code Rating Service • Provide objective and reasonable Rating using AI • Implement decentralized and practical assessments by the community • Evaluation standard for software quality with Public confidence • All products will be evaluated by EYES Rating platform
02 Vulnerability Inspection Service	**MARKET PLACE** EYES Zone Service Example	
• OSS vulnerability scan service • Web Server vulnerability scan service	EYES Pay Mileage Exchange Cash back Game money Cloud Service Etc anything	

The basic business model of EYES Protocol is a service to vitalize open-source ecosystems ecosystem. Through the EYES Zone model, an expanded business model, EYES Protocol service is shared with Market Place to expand EYES distribution, securing continuous distribution value.

- Business Model is classified in 2 forms.

1) Open source license verification and vulnerability checking services

The basic services supported by EYES Protocol include open source license checking, open source vulnerability checking, source code vulnerability checking, and Bin / Lib license checking.

2) EYES Zone Service

EYES Zone means Market Place that is certified through the service provided by EYES Protocol. In this market, EYES is adopted as a payment method or offered in points and miles, thereby expanding the distribution of EYES. EYES Zone has unlimited scalability. All the industries and product groups of the world can be our customers.

3-2

EYES Business Model

EYES Protocol Token Economy & Business Model

For example about EYES Zone is below:

- EYES Pay

  It is an automatic payment solution using market place, such as S Pay and W Pay. The problem with slow transfer speeds can be solved by paying in advance, and then submit full payment in token on the desired payment date, such as a credit card.

- Mileage Exchange

  Mileage accumulated by purchasing and using various goods and services such as airline, shopping can be exchanged for EYES Token and encashed. Most services offering mileage use open source, so they can be our customers. Bidding Stay is first EYES Zone in the EYES Protocol, which provides a free comparative estimate of hotel rooms, banquet halls, airline tickets and chartered buses for group customers. When using the service of bidding stay, you can use EYES token as your payment method or receive mileage as EYES Token.

- Cashback

  Shopping malls such as eBay are websites that contain critical customer information. It is one of the MarketPlace that is expected to have a high demand for EYES Protocol because it needs to pay particular attention to personal information and payment information security. Users can use the EYES Token at the EYES Zone shopping mall to make a payment at a discounted price, or earn miles and points as tokens.

- Game money

  Game is one of the SW that hacking damage can be most sensitive and lethal to users. EYES Protocol prevents damage caused by game hacks. Game companies can use EYES coins for goods that are available in the game, and let game users make payments using EYES Token.

- Cloud service

  We will save almost data like business data, photos, videos, and books in the cloud server. When cloud servers are hacked, we face a terrible situation where our efforts and memories are lost. EYES Protocol keeps your data safe and can be paid with EYES Token.

- Etc Marketplaces

  Open source is used in almost all products and has the infinite potential to grow in the future. The scalability of the EYES Zone can also grow in proportion. We are dreaming that someday, all SWs in the world will become EYES Zone.
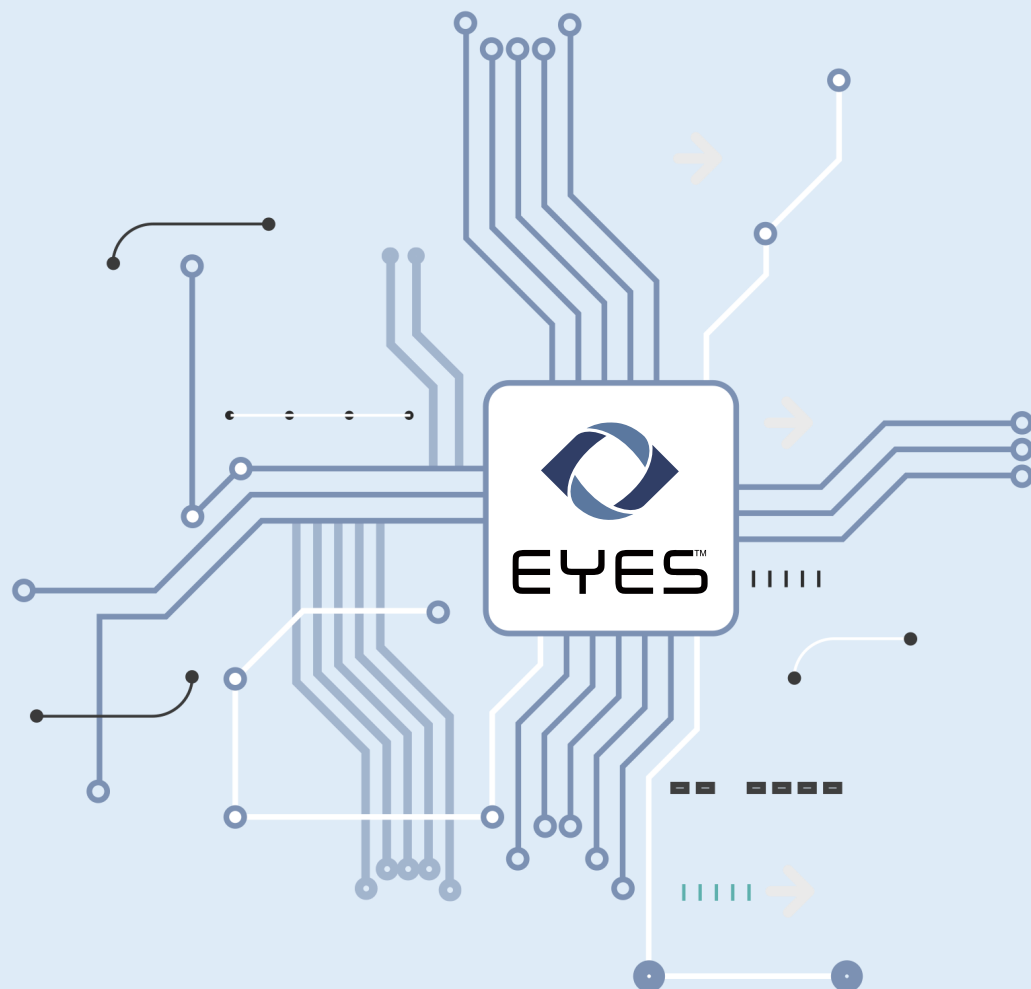
4-
Foundation of EYES Protocol, the FOSSGuard

Foundation of EYES Protocol, the FOSSGuard

4-1

About FOSSGuard

FOSSGUARD is an integrated Open Source Software Total Management Solution. It comprehensively validates and manages licensing and security vulnerabilities that can arise when creating SW using open source.
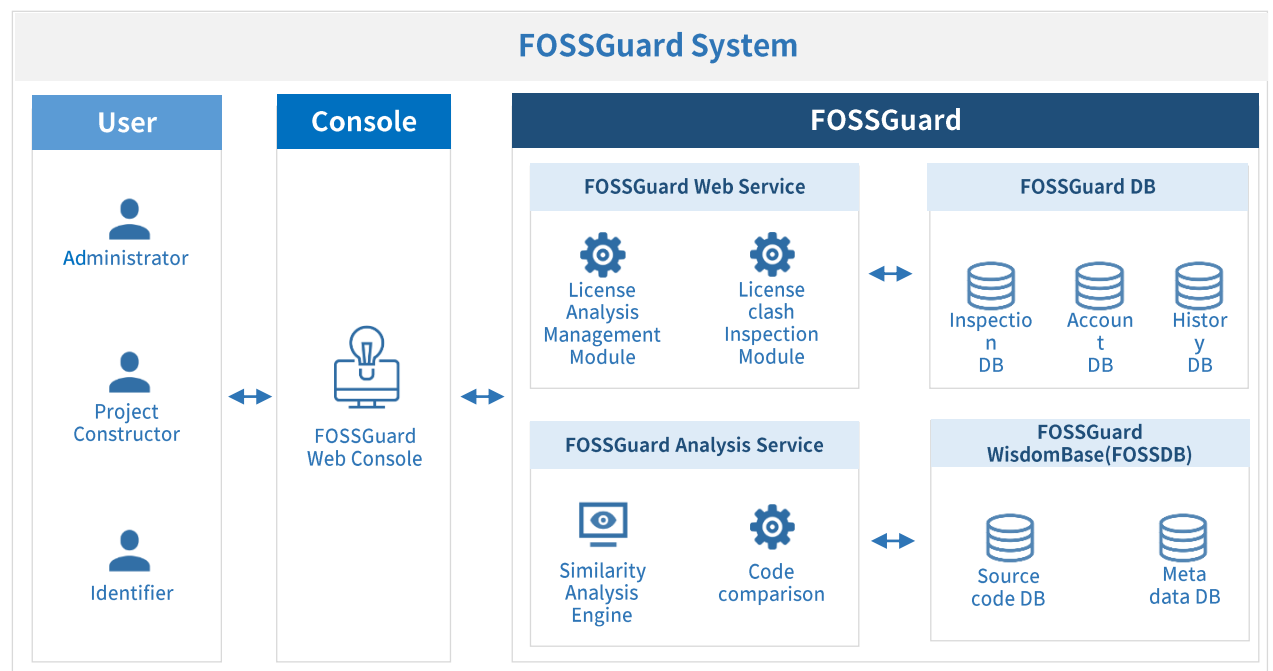
About FOSSGuard
- FOSSGuard analyzes the source code of the developed software and detects the used open Source and license. By providing software developers with information about open source licensing compliance of developed software, we create a more efficient and free development environment.
- FOSSGuard prevents legal disputes, dispositions, and recurrences that may arise in the event of non-compliance with open source licenses, resulting in financial and image loss.
- From the open source license verification stage, FOSSGuard provides function of searching and recommending open sources with the desired functions to developers. It also provides comprehensive consulting on code modification using open source and compatibility, vulnerability testing of completed software.

4-2

FOSSGuard System

FOSSGuard System
- FOSSGuard consists largely of User part, FOSSGuard Web Console, and FOSSGuard Engine. WisdomBase, which manages open source information, and FOSSGuard Engine, which handles analysis, are the main components.

FOSSGuard System

User	Console	FOSSGuard

User: Administrator, Project Constructor, Identifier

Console: FOSSGuard Web Console

FOSSGuard

FOSSGuard Web Service: License Analysis Management Module, License clash Inspection Module

FOSSGuard DB: Inspection DB, Account DB, History DB

FOSSGuard Analysis Service: Similarity Analysis Engine, Code comparison

FOSSGuard WisdomBase(FOSSDB): Source code DB, Meta data DB

Foundation of EYES Protocol, the FOSSGuard

4-2

FOSSGuard System

- FOSSGuard license verification is processed by extracting, encrypting, and analyzing source code from a user's project, and then detecting used open source and license from them. This information is compared and analyzed with the information held in WisdomBase. It reports whether any license violation or conflict exists. Finally, the extracted user project source code is deleted.
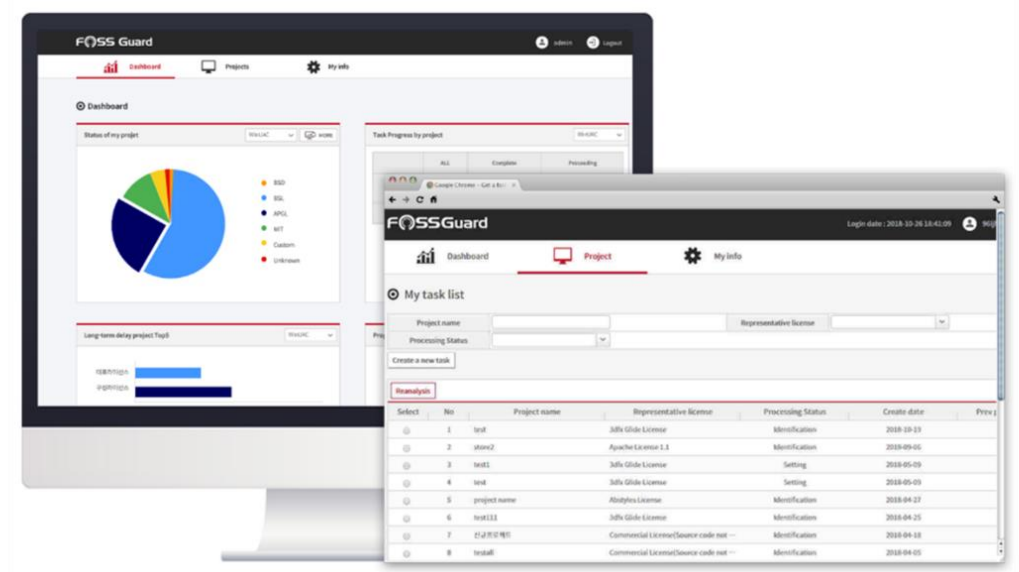

FOSSGuard System Process

4-3
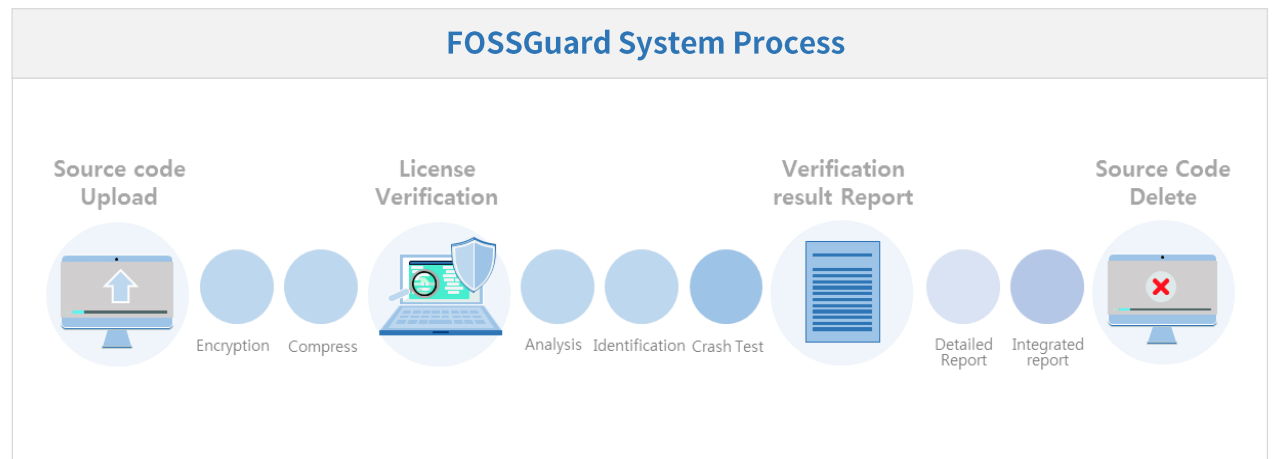
Main Function and Differentiation of FOSSGuard System

Main Function and Differentiation of FOSSGuard System

- FOSSGuard provides consulting service regarding automatic analysis of similarity in source codes, identification of original open Source, automatic test of license collision, automatic creation of verification result report, and legal actions with open Source license. Also, FOSSGuard is the first and sole product in Korea, which can verify Open Source license and vulnerabilities, and efficiently manage open source SW through flexible customizing policies.

- Open Source License Verification

Main function of FOSSGuard which provides automatic analysis of similarity in source codes, identification of original open Source, automatic test of license collision, automatic creation of verification result report, etc.

4-3

Main Function and Differentiation of FOSSGuard System

Easy management by Process-based removal of Compliance Risks

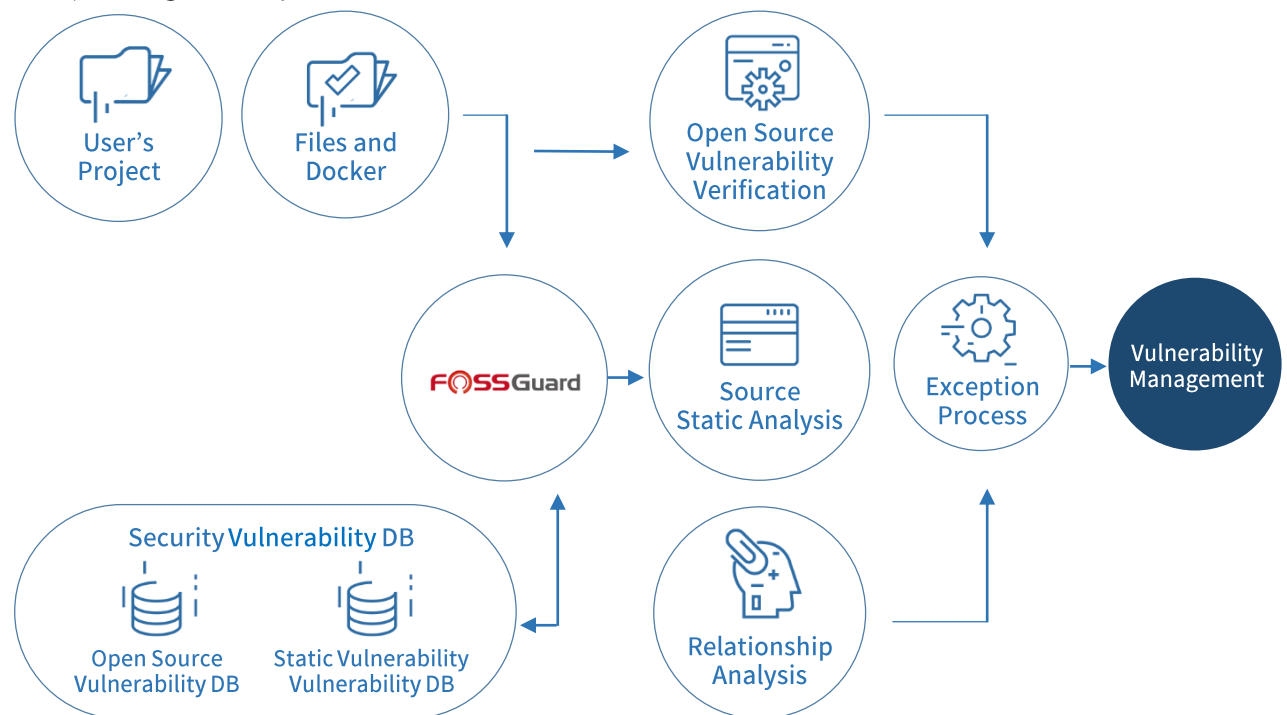Maximize management efficiency through useful real-time statistics

Minimize human mistakes Through various identification grounds and automatic judgement of collision conditions

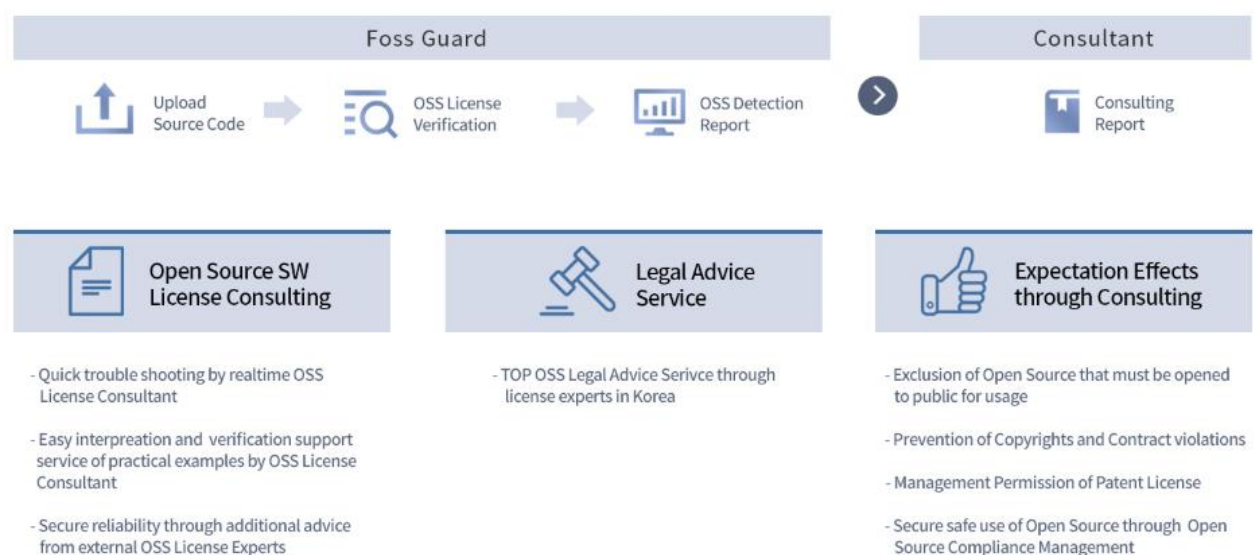Presentation of Source Code Comparison and Similarity Identification

- Open Source Vulnerability Verification

Provide pre-examination of vulnerability in open source project and original source. It enhances security reliability for development SW by using alternative sources and improving security vulnerabilities.

User's Project — Files and Docker — Open Source Vulnerability Verification

FOSSGuard — Source Static Analysis — Exception Process — Vulnerability Management

Security Vulnerability DB
Open Source Vulnerability DB — Static Vulnerability Vulnerability DB

Relationship Analysis

- Open Source Consulting

To resolve difficulties of managing open source licenses, provide easy report for legal terms and accurate management of open source license by suggesting related laws and examples.

Foss Guard

Upload Source Code ➡ OSS License Verification ➡ OSS Detection Report

Consultant

Consulting Report

Open Source SW License Consulting

- Quick trouble shooting by realtime OSS License Consultant
- Easy interperation and verification support service of practical examples by OSS License Consultant
- Secure reliability through additional advice from external OSS License Experts

Legal Advice Service

- TOP OSS Legal Advice Serivce through license experts in Korea

Expectation Effects through Consulting

- Exclusion of Open Source that must be opened to public for usage
- Prevention of Copyrights and Contract violations
- Management Permission of Patent License
- Secure safe use of Open Source through Open Source Compliance Management

Foundation of EYES Protocol, the FOSSGuard

4-3

Main Function and Differentiation of FOSSGuard System

- Open Source Education

Extend the base of open source through prevention education about open source license dispute and security vulnerability, and provide accurate consulting. By cultivating industry experts, open source reliability is enhanced, which leads to education repeatedly and creates a virtuous cycle structure.

OSS Vulnerability
Education

OSS License
Education

OSS Consulting
Education

**Virtuous Circle of
Education**

OSS Usage
Increase

OSS License
Education
Course Open

Consultant
Training
Education

Consulting
Education

Consultant
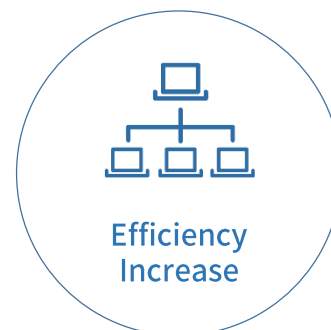Recruitment

Foundation of EYES Protocol, the FOSSGuard

4-4

Effect of using FOSSGuard

Effect of using FOSSGuard

By replacing manual Eye Checking process, license analysis time is reduced and more accurate licensing decisions are possible without human mistake. In addition, without the help of a legal expert, conflict conditions can be automatically determined and the SW can be deployed in compliance with the license's obligations in reduced workloads.

Effect of using FOSSGuard

Risk reduction

Management Work Reduction

Management Cost Reduction

Activeness Increase

Efficiency Increase

Acquisition of Trust

4-5

WisdomBase, the Open Source DB of FOSSGuard

WisdomBase, the Open Source DB of FOSSGuard

FOSSGuard regularly updates DB to possess all the recent open Source and provides detailed metadata of projects in file unit. It provides explicit information such as similarity percentage, similar codes and lines, etc., in source codes. By collecting open Source that is active and needs to be verified, the quality of the DB is improved. As the DB is accumulated with data, FOSSGuard becomes stronger and its accuracy is improved.

5-
EYES
Protocol.ORG

Open Source, becoming transparent on Blockchain.
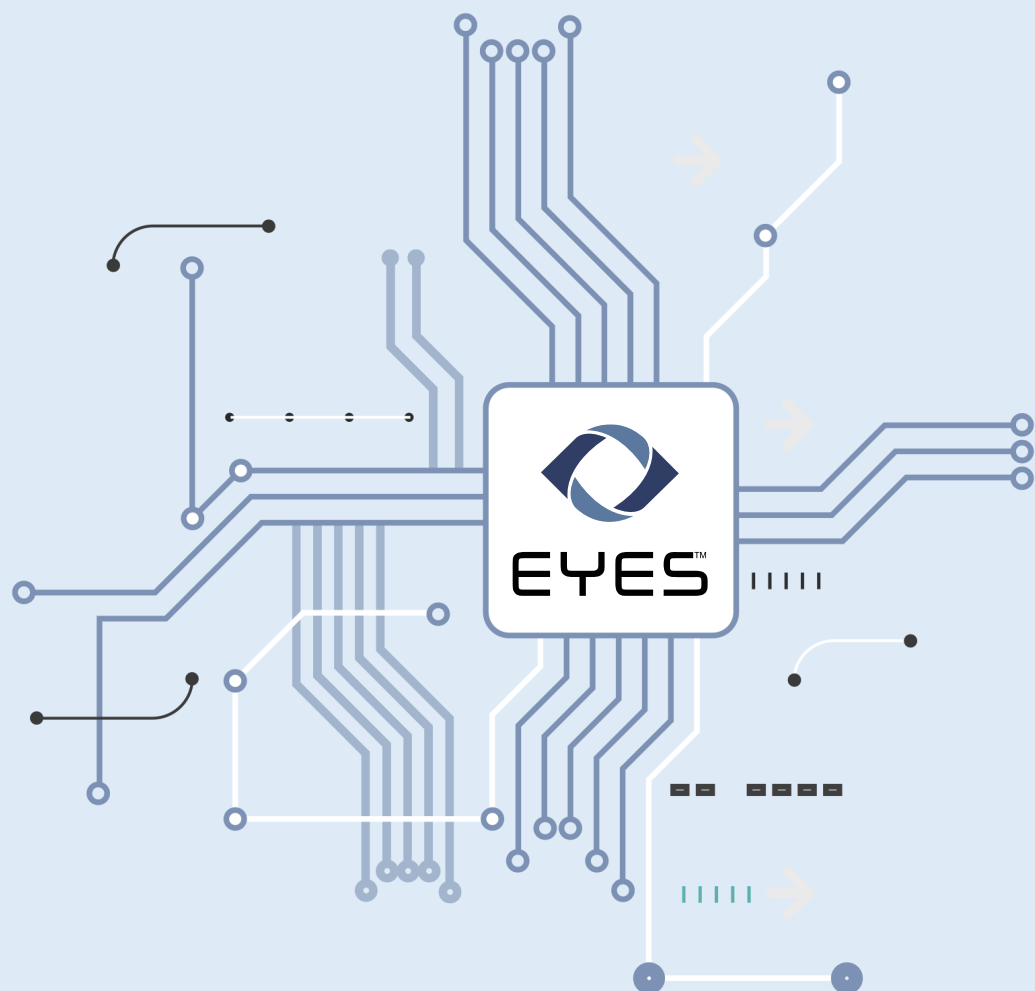
Reasons for applying Individual Contract to EYES Protocol.

Reasons for applying Individual Contract to EYES Protocol.

- Increase of Product's Reliability

EYES Protocol applies functions of FOSSGuard, which is a open Source license verification software used by public institutions in Korea, into Blockchain. Therefore, risks of taking damage from issues that may occur after developing software with open Source, such as deliberate verification of license without license information, damage from wrong information about verified open Source license, etc., can be prevented.

- Continuous Management on Changes

EYES Protocol applies open Source data of software to Blockchain and continuously record and verify changes in source codes whenever there are updates and patches. Through this service, new modifications can be informed and consulted to prevent damages from corresponding information.

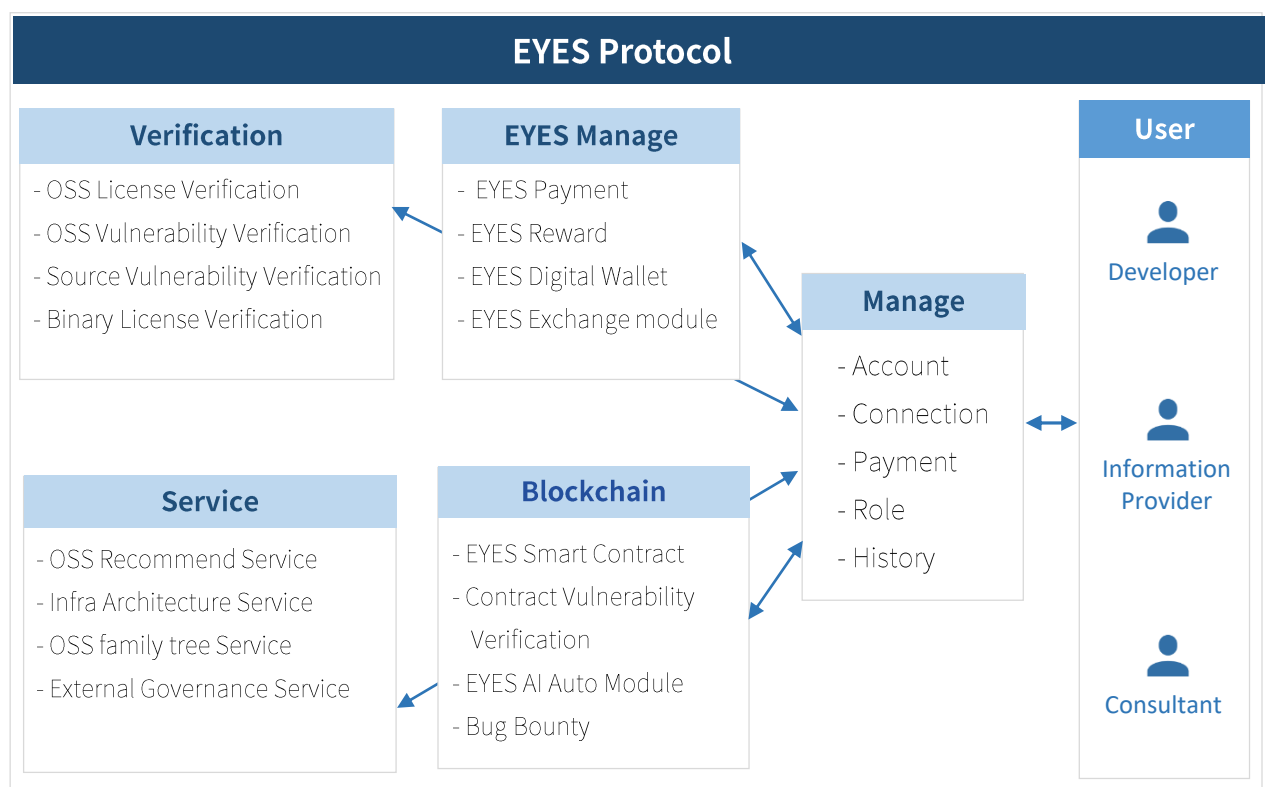**- Protection on all Open Source SW-based Property Rights**

EYES Protocol comprehensively manages not only the source codes of software that is developed with open Source, but also digital creations made from the software such as trademark rights and design rights, etc., on Blockchain.

Main Functions of EYES Protocol

Main Functions of EYES Protocol

EYES Protocol is a global service that diverse services for development, contribution and sharing based on FOSSGuard, blockchainalize open source information to establish an open source ecosystem based on blockchain, and provides stability of Smart Contract.

EYES Protocol			
Verification	**EYES Manage**		**User**
- OSS License Verification - OSS Vulnerability Verification - Source Vulnerability Verification - Binary License Verification	- EYES Payment - EYES Reward - EYES Digital Wallet - EYES Exchange module	**Manage** - Account - Connection - Payment - Role - History	Developer Information Provider Consultant
Service	**Blockchain**		
- OSS Recommend Service - Infra Architecture Service - OSS family tree Service - External Governance Service	- EYES Smart Contract - Contract Vulnerability Verification - EYES AI Auto Module - Bug Bounty		

Open Source, becoming transparent on Blockchain.

5-2

Main Functions of EYES Protocol

- Recommendation Service

Recommends different source code to replace an open source if license violation/collision is detected. The recommendation can be filtered with various conditions such as number of users, evaluation rank, number of project participants etc.

- Composition of Infra Architecture and Filtering Service

Provides filtering architecture service for preventing license violation when one develops a new software with existing software.
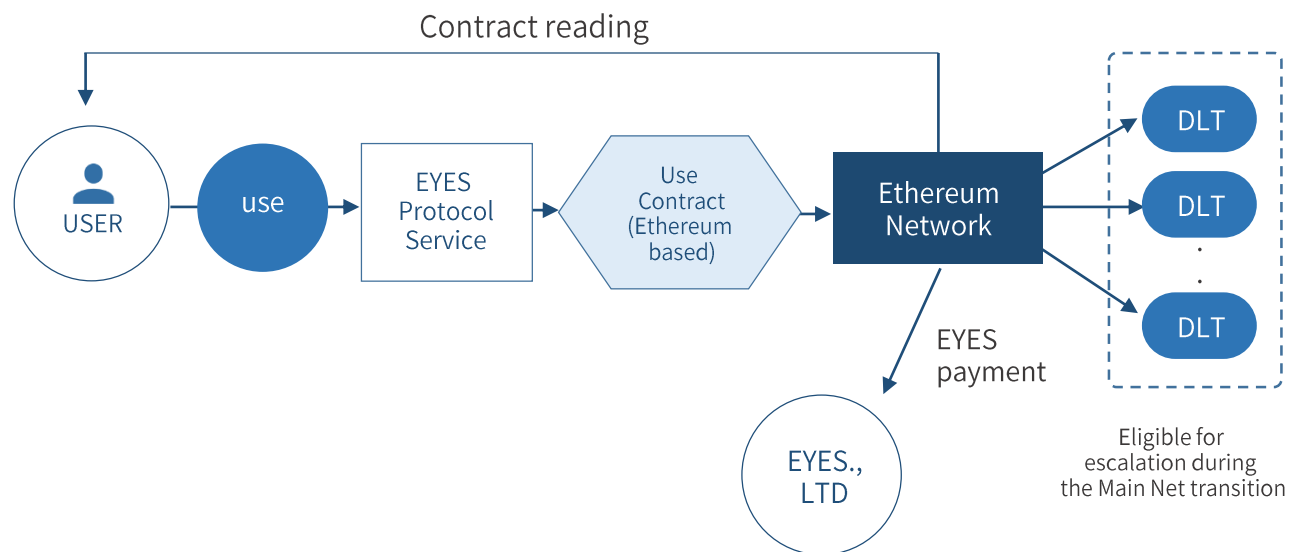
Open Source, becoming transparent on Blockchain.

5-2
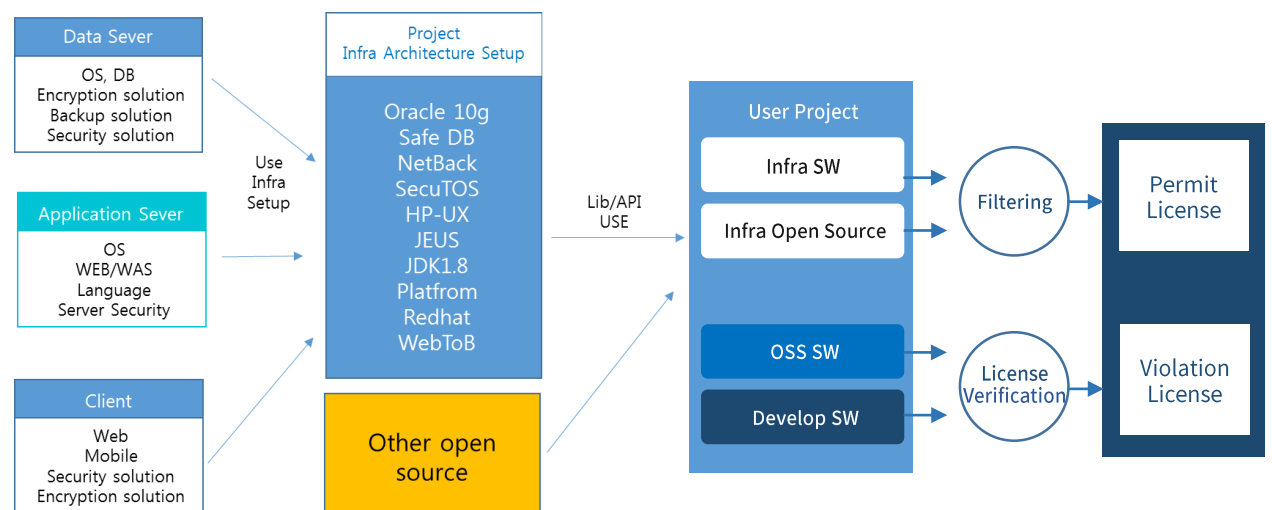
Main Functions of EYES Protocol

- EYES Smart Contract (Step 1 Ethereum Based)

To use main functions of EYES Protocol, one must create an Ethereum-based contract (At Mainnet, the old transaction records will not be transferred) to pay for its service fee.

- EYES Smart Contract (Step 2 HyperLedger-based Mainnet)

After Mainnet, in step 2, provision of open source information and its usage is concluded with Smart Contract accurately, and rewards are managed with HyperLedger Platform.
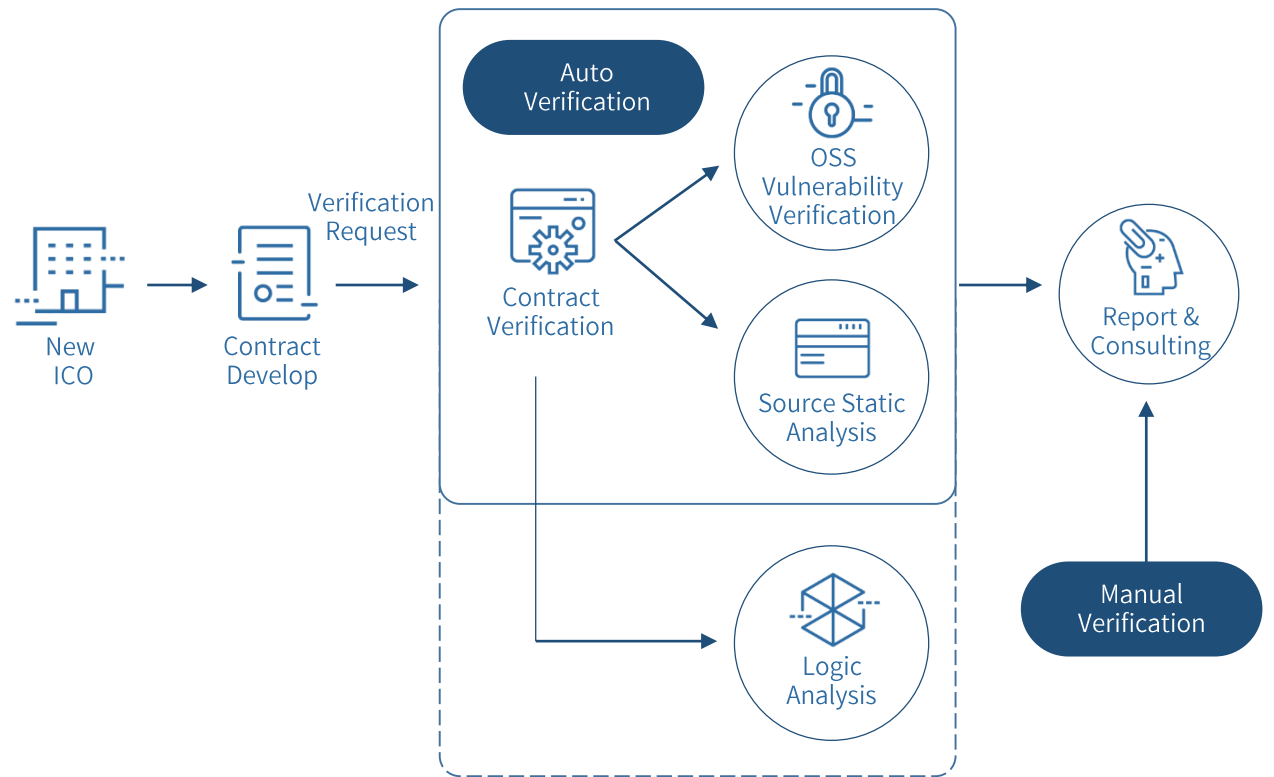
Open Source, becoming transparent on Blockchain.

5-2
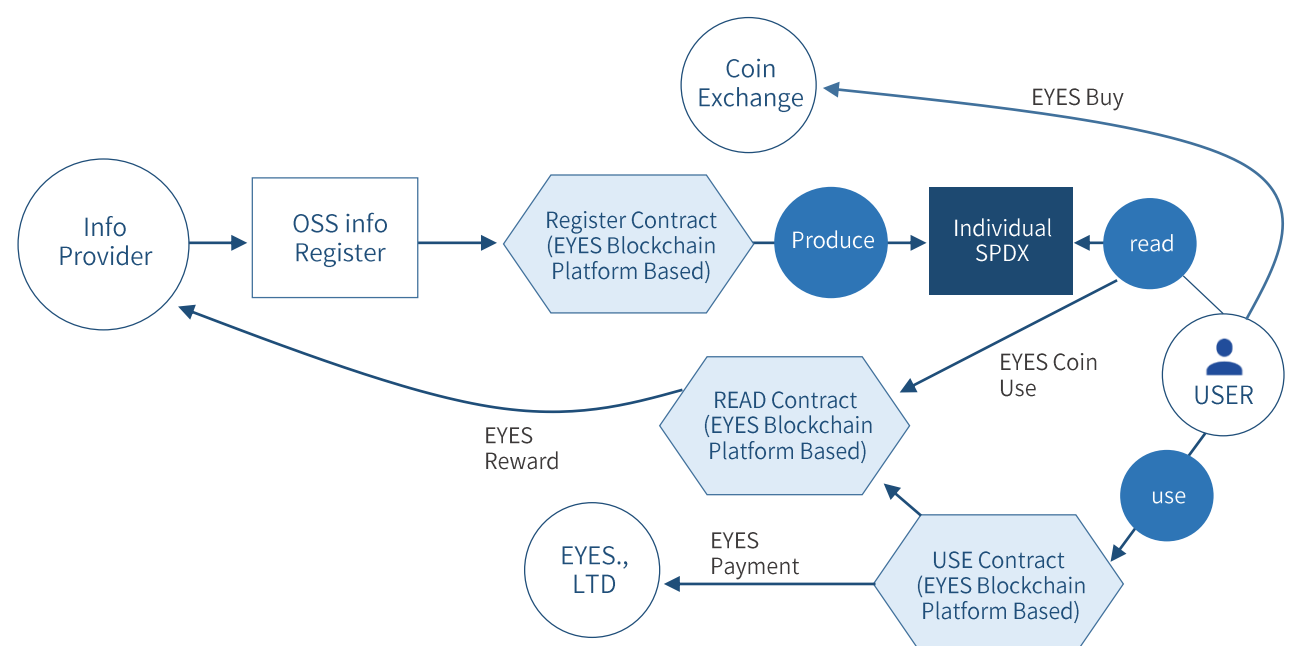
Main Functions of EYES Protocol

- Smart Contract Vulnerability Verification

Provides vulnerability verification service for various open-source-based smart contracts to prevent damage in service and trust in ICO projects.

- Development Support for OSS

Provides total development platform and support service for managing SW development from the project planning stage to development and distribution stages.
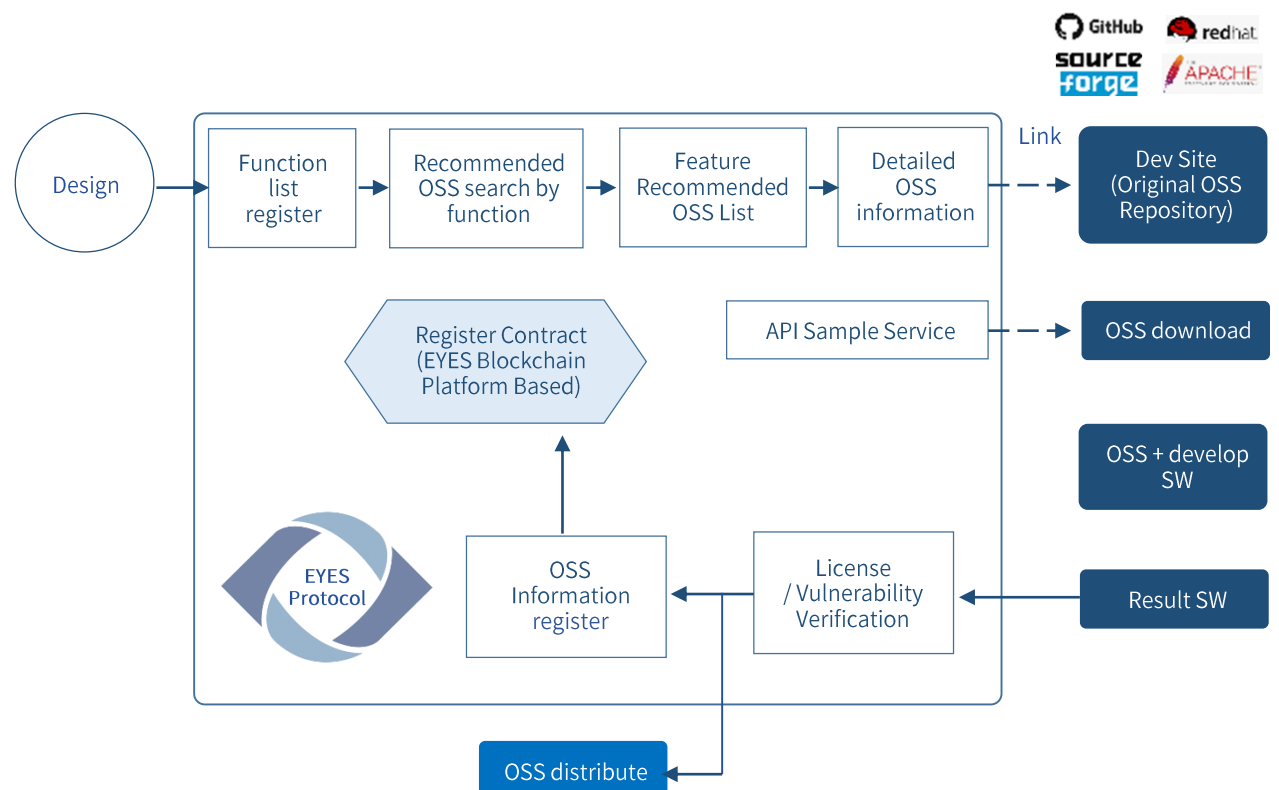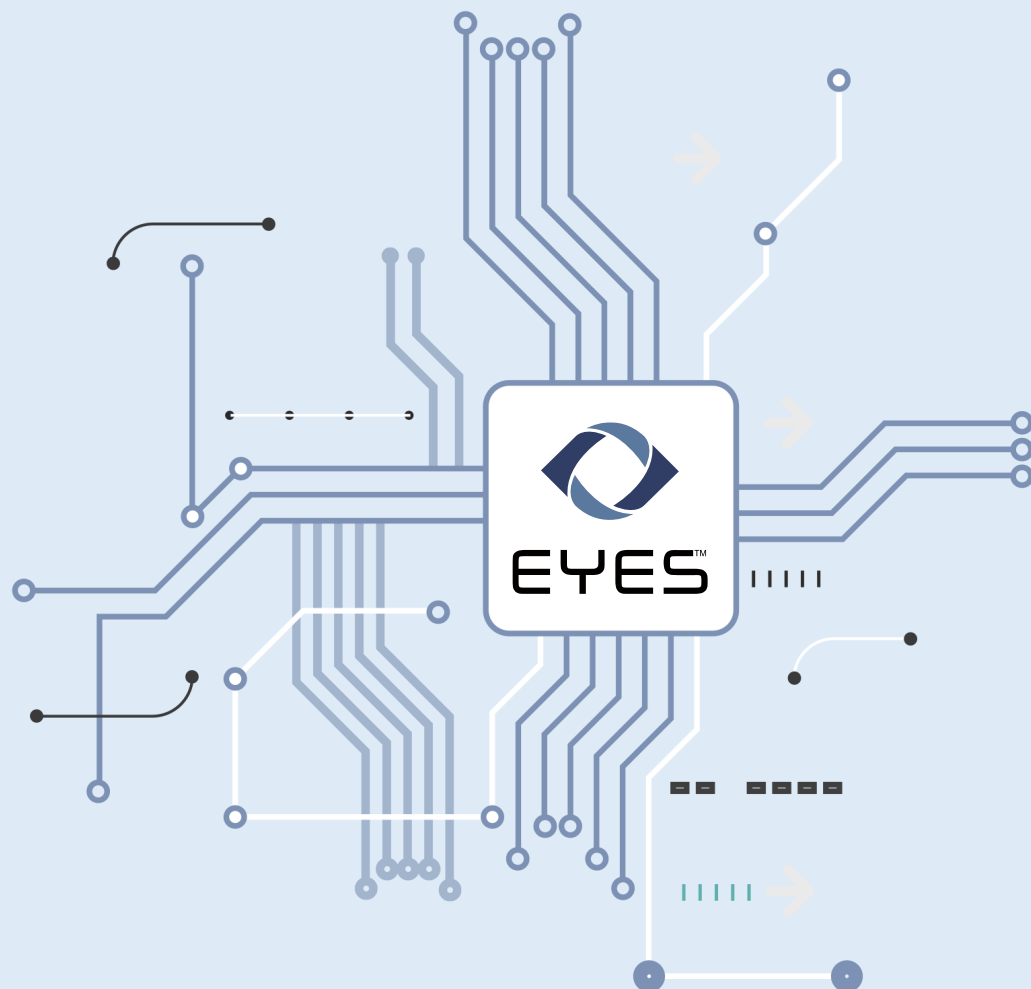
6-
Mainnet
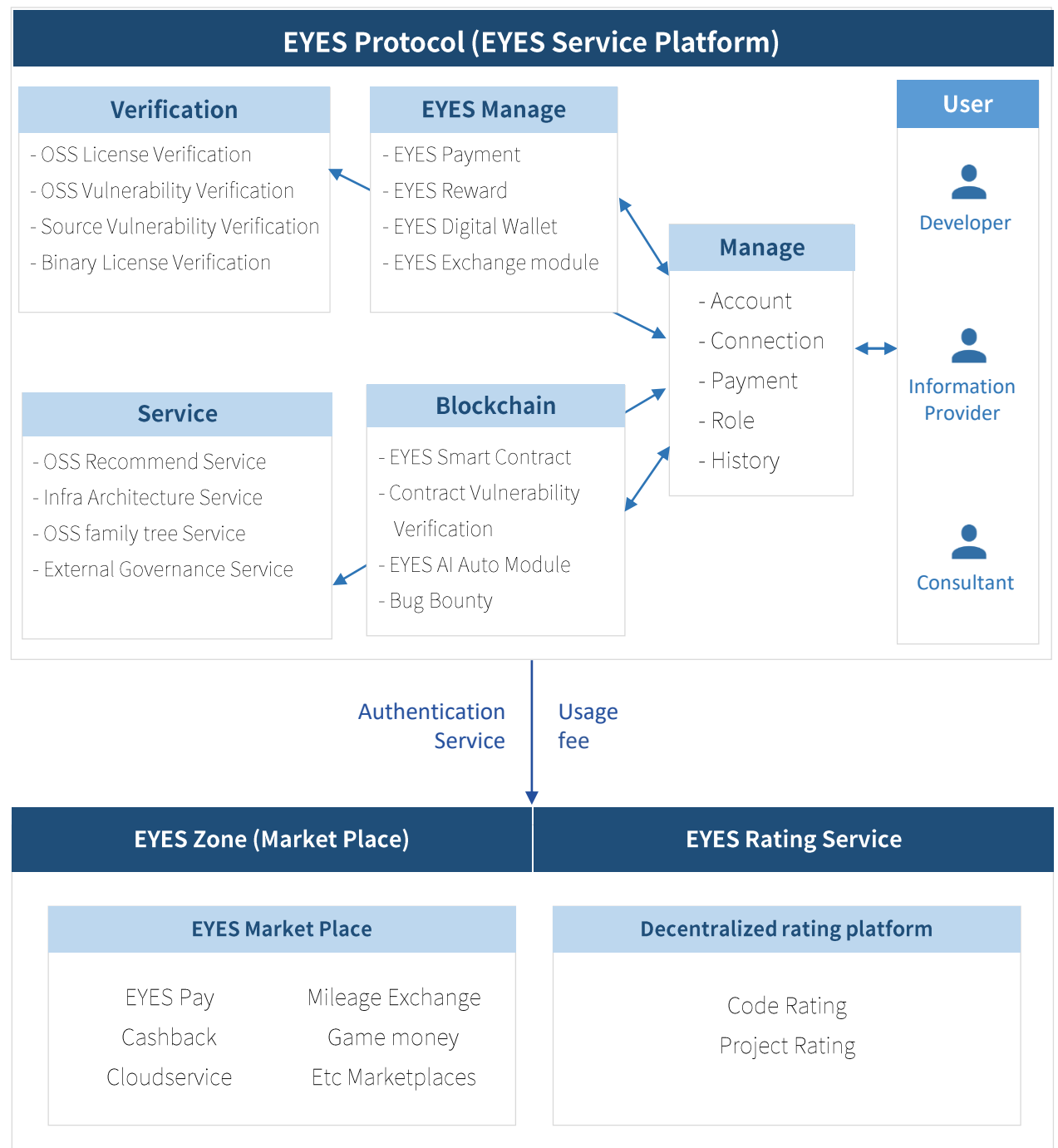# – Decentralized Rating Platform

Free open source, now really free to use

6-1

Overview of Mainnet

Overview of Mainnet

- In the EYES Protocol, Mainnet encompasses EYES Blockchain Platform, EYES Protocol Service, EYES ZONE Expansion, and EYES Rating Platform.

- EYES Protocol has the strong function of supporting developers to develop high-quality software at a reasonable price. These services are available to all users who have more than certain number of EYES tokens through the online platform of EYES Protocol. The software is validated its value through the objective and scientific EYES Rating Platform, and can reach more consumers in the EYES Zone.

- Each software upgraded through the EYES Protocol Service will join the EYES Zone and increase the value of EYES. As a result, more software will desire to be certified by EYES Rating Platform, and ultimately, all software will consider it essential to receive EYES certification marks and ratings and to join the EYES Zone.

EYES Protocol (EYES Service Platform)

Verification
- OSS License Verification
- OSS Vulnerability Verification
- Source Vulnerability Verification
- Binary License Verification

EYES Manage
- EYES Payment
- EYES Reward
- EYES Digital Wallet
- EYES Exchange module

Manage
- Account
- Connection
- Payment
- Role
- History

User
Developer

Information Provider

Consultant

Service
- OSS Recommend Service
- Infra Architecture Service
- OSS family tree Service
- External Governance Service

Blockchain
- EYES Smart Contract
- Contract Vulnerability Verification
- EYES AI Auto Module
- Bug Bounty

Authentication Service | Usage fee

EYES Zone (Market Place) | EYES Rating Service

EYES Market Place

EYES Pay	Mileage Exchange
Cashback	Game money
Cloudservice	Etc Marketplaces

Decentralized rating platform

Code Rating
Project Rating

<Business Model of EYES Protocol>

Free open source, now really free to use.

6-1

Overview of Mainnet

Expansion of EYES Zone

- EYES Zone has infinite scalability. The open-source SW market is expected to grow steeply as its utility in cloud, big data, Internet of Things(IOT), Artificial Intelligence(AI) and other new industries grow rapidly. Currently, Open source SW utilization rate of market-leading companies is over 80%.

- Development and use of open source software is essential in all industries, which will necessarily increase the use of EYES Zone services. Eventually, all the industries will be covered by EYES Zone.

SW service of all industries becomes the service target of EYES Zone.

6-2

Efficient Code rating platform

combined with AI technology to achieve efficient code rating

After establishing a systematic code audit platform, EYES will take advantage of its powerful system advantages to establish a pioneering set of decentralized code rating platform -- Evaluate. Unlike traditional rating system, EYES Protocol focuses on analyzing the quality of open source code through the implementation of Evaluate technology, and grafts community governance and AI technology to elevate the scientific and efficiency of code rating to a new level.

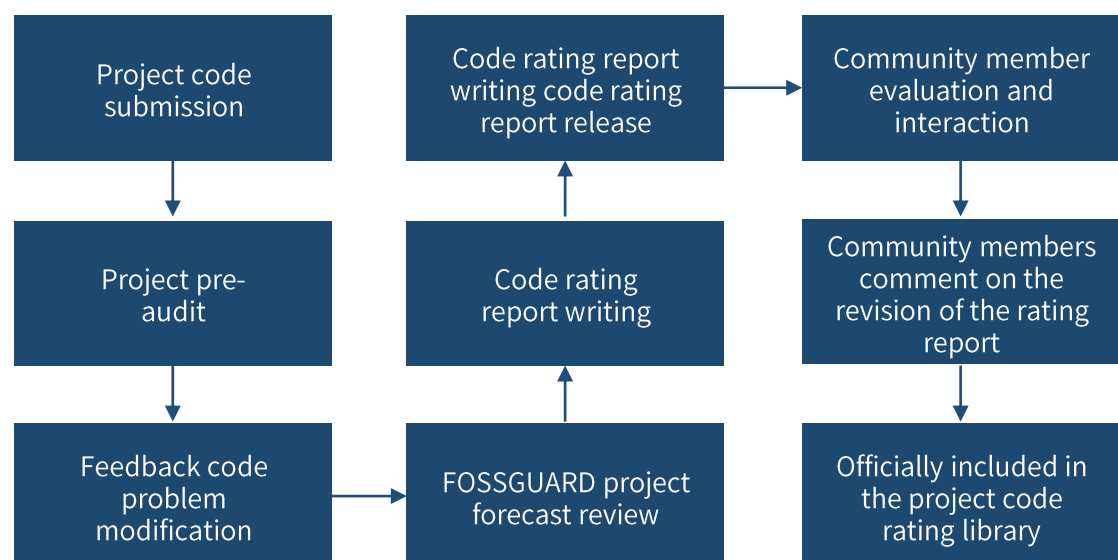### - Strong technical background ensures the scientific of code rating

EVALUATE will build on the EYE protocol's three-tier service and build code auditing technology into the rating platform based on the powerful code auditing technology background. For different types of code in the market, the code is first entered into the EYE protocol for review. At the same time, the AI technology included in the EYES protocol further accelerates the efficiency of code rating, and can audit new type of source code.

- Decentralized governance

The EYES protocol combines decentralized community governance with code rating to create a systematic community rating system. In this system, after EYES first reviews and rates the code, community members will also conduct a series of ratings based on the relevant characteristics reflected in the code. In the platform, the rating content of different community users will be listed as comments and articles. Users can conduct "thumb up", "comment" and other operations for different ratings. High quality rating content will be added to the evaluation of code rating, and the content with objections will be modified according to the requirements of the community to truly achieve the decentralization of code rating.

6-3

EVALUATE Rating procedure

Project code submission		Code rating report writing code rating report release		Community member evaluation and interaction
Project pre-audit		Code rating report writing		Community members comment on the revision of the rating report
Feedback code problem modification		FOSSGUARD project forecast review		Officially included in the project code rating library

6 Mainnet-Decentralized rating platform

Distributed system code and project one-stop rating

6-4

**EVALUATE
Service**

- Platform function

EYES rating platform is divided into two sections: project and code evaluation. The rating platform will cover investors and the geek community, providing scientific reviews of source codes and projects.

- Main process

EVALUATE will provide an open community for all investors and geeks to communicate and share in a timely and convenient manner, and for users to EVALUATE projects and code based on their ratings.

Geeks and investors can interact in online communities, sharing the strengths and weaknesses of code and projects, and running a series of reviews. EYES Rating platform will also adjust the rating according to the content of the community, and put a certain number of tokens to the community.

In addition, token holders can also organize various offline activities, including code sharing, open source community discussion, etc. The whole process is guaranteed to be implemented through intelligent contract.

Activity apply: any token holder can apply for the activity, including the theme, time, place, scale, per capita fee standard, etc.

Activity voting: within the set time, all coin holders can participate in the voting. If the number of supporters does not reach the lower limit before the voting deadline, the activity will be cancelled and the tokens will be returned to the members. If the minimum number of supporters reaches before the voting deadline, the activity will start as planned.

Activity implementation: the activities with sufficient support shall be implemented by the organizer in accordance with the submitted activity plan, involving the use of activity funds, change of activity plan and other issues, and the application shall be submitted and voted by all participants.

End of the activity: there are two situations to trigger the end of the activity, one is the completion of the activity according to the original plan, and the other is the consent of all participants to the end of the activity. Upon completion of the activity, any remaining tokens in the contract pool will be distributed to all participants in proportion.

7-
About LSware Co., Ltd.
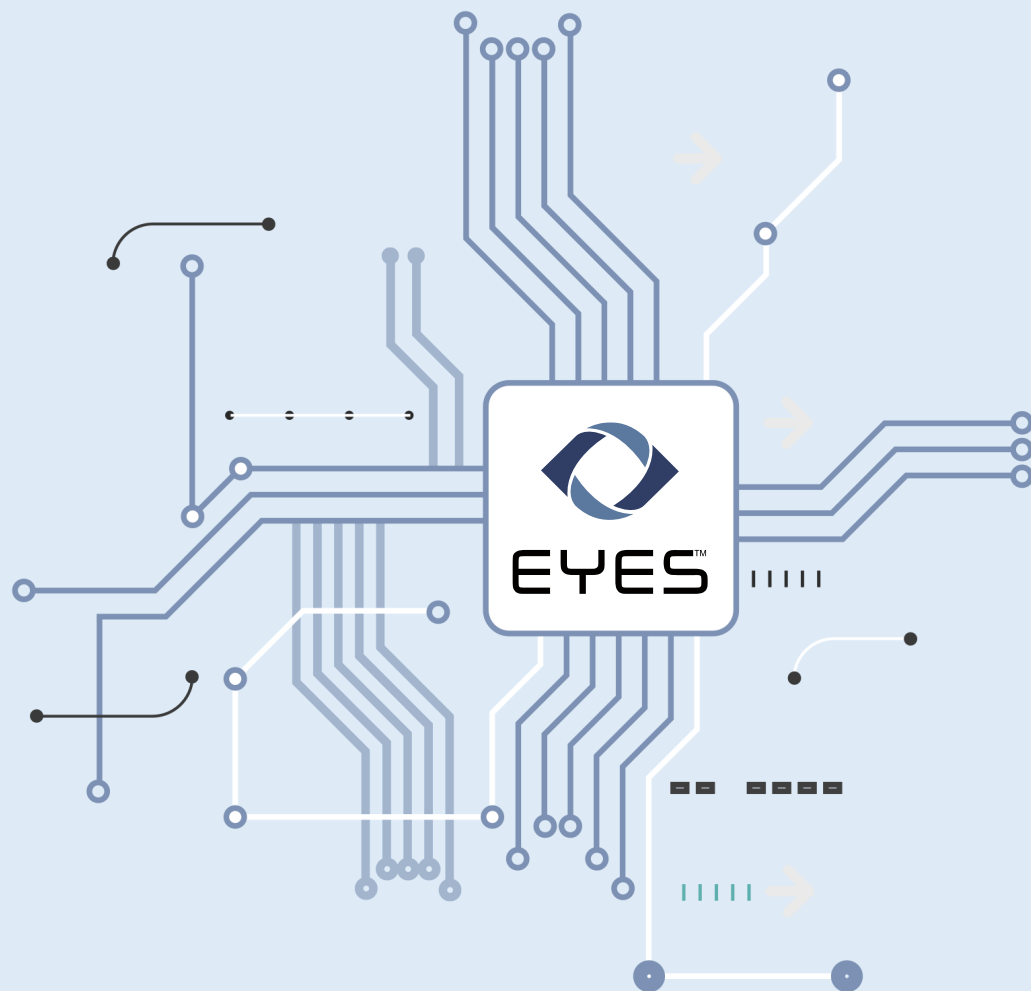
About LSware Co., Ltd.

7-1

About the Company

LSware Inc.

Business Area

- Research and
  Development (R&D),
- information solution
  business
- IT Convergence
  Business
- Open Source SW
  Business

Certifications
(14 types)

- Knowledge Property
  Management
  Certification
- Small Hidden Company
  Certification by Ministry
  of Employment and
  Labor
- HI-Seoul Brand Business,
  MAIN-BIZ
- NIS CC Certification (2
  types)
- Software Quality
  Certification (GS
  Certification) 5 types
- Software Process Quality
  Certification (1 type)

Awards

- Tower Industry
  Medal
- New SW Product
  Subject
  (FOSSGuard)
- Corporation
  Competition
  Grand price (2
  times), and others

About LSware Co., Ltd.

7-2

Main History of Company

Main History of Company

● **2018**
- Registered LSware Co., Ltd., Product to the Public Procurement Service

● **2017**
- Acquired Rising Company Certification by Ministry of Employment and Labor and selected as Cloud Interoperability Consulting
- Selected as Small and Medium Company IP Management Company by Korea Intellectual Property Office
- Acquired Knowledge and Property Management Certification

● **2016**
- Merit Award for 'Children Education Development Area' by Ministry of Education
- Selected as Rising Company of Seoul selected by Seoul Knowledge and Finance Center IP Start Company
- **Acquired GS Certification for OSS License Compliance Management Solution (FOSSGuard)**
- Acquired Rising Company Certification for Job Opportunity in Seoul City
- **Awarded Grand Prize for K-ICT New Software Product (FOSSGuard) by Ministry of Science, ICT, and Future Planning**
- Acquired 'Software Process Quality (SP)' Certification (Level 2) by National IT Industry Promotion Agency

● **2015**
- Selected as HI-SEOUL 'Information Communication Field'
- Excellence Award for 'IT Solution Part' by Korea SW Company Competition Awards

● **2014**
- Awarded Excellent Award for 'Information Protection SW Field' at South Korea Software Company Competition Awards
- Awarded Small and Medium Business Director's Award in 'Technology Innovation Field' at small and Medium Business Technology and Innovation Contest
- **Awarded Director's Award in 'Copyrights Technology Field' by Korea Copyrights Organization Alliance**
- **Released Open Source SW License Compliance Test System (License Guard)**

● **2013**
- Excellent Company Certification for Creating Jobs in Seoul City
- Job Opportunity Company, Selected as Excellent Family-Friendly Company by Ministry of Gender Equality and Family

● **2012**
- Selected as Job Opportunity Company
- OmniGuard (UPV, UAC, UCC)
- Received CC Certification for Security Vulnerability Diagnosis Solution (SecuMS)

7 About LSware Co., Ltd.

About LSware Co., Ltd.

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Main History of Company

Main History of Company

- **2009**
  - Released Security Vulnerability Diagnosis Solution (SecuMS)

- **2008**
  - Acquired MAIN-BIZ, INNO-BIZ Certifications
  - Acquired Quality Management System (ISO9001) Certification

- **2006**
  - Established security research center
  - Acquired Research and Development Venture Company Certification

- **2005**
  - Founded LSware Co., Ltd.

About LSware Co., Ltd.

7-3

R&D Business Performance

R&D Business Performance

Blockchain based Monitoring Technology development for Webtoon contents Adjustment '19~'20

- Development of monitoring module for purchasing contents of webtoon
- Development of pre-inspection technology for purchasing evidence of buying of webtoon contents based on deep learning
- Development of a system to prevent forgery and falsification of the purchase of webtoon contents based on Blockchain
- Development of Blockchain based settlement monitoring system for proof of purchase of webtoon Contents

Intelligent Honeypot based Ransomware block and recovery technology '18~'20

- Machine leaning based abnormal user behavior detection technology (log data based learning)
- Ransomware infection response technology by Cyber killchain based on user account management/access control/session logging/privilege management
- Intelligent honeypot based ransomware detection and control technology

Development of anonymous network deanonymous technology for copyright protection '18~'20

- Build dark web, Dark internet, tor network packet analysis test-bed
- Development of technology for tracking PC and server connected to Tor network

Development of diagnostic and analytical techniques for preservation, certification and identification of modern paintings '18~'20

- Development of analytical techniques such as DB construction and feature point/relationship diagram of modern paintings using multi-dimensional scanning technology such as terahertz
- Development of metadata management technology and encrypted content archiving technology based on blockchain based modern paintings

Developing Simple Password Authentication being Compatible with PKI '18~'19

- Development and optimization technology of password and authentication protocol that can be installed in a smart power meter
- Implement PKI-based secure channel configuration technology with IOT and smart power meter devices

Development of QA systems for Video Story Understanding to pass the Video Turing Test '17~'21

- Open source and licensing verification management for AI projects
- Developed a copyright guide for AI learning data and artifacts
- Development of learning data collection and management technology

About LSware Co., Ltd.

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R&D Business Performance

R&D Business Performance

Real-time service system development of Jeju tourist AR contents using drones	**'17~18**

- Real-time service system development of Jeju tourist AR content that combines drone technology and AR technology
- Developed as a platform-type system for easy reusable system

The development &Demonstration of Energy Prosumer platform based on Network Security optimized for Industries	**'16~19**

- Development of anomaly detection technology for deep running based power data
- Development of OpenAPI technology providing password service and application technology of a power trading system
- Development of personal information protection technology using a cryptographic algorithm in the power trading system

Technical development of invigorating the legal Open Source Software distribution on the protecting license environment of Open Source Software	**'16~'18**

- Development of open source license conflict and verification automation technology
- Development of blockchain-based SPDX distribution technology
- Development of search technology on OSS and license recommendation based on reinforcement learning

A Developments of Blockchain technology for exchanging microgrid renewable energy	**'17~'17**

- Multi-Directional auction algorithm research
- Development of electric energy trading technology based on Ethereum blockchain

The Study on Copyright New Service Model Using Block Chain Technology	**'17~'17**

- Development issues of blockchain technology in copyright field and countermeasures research
- Developed new service model based on blockchain (3 kinds)

About LSware Co., Ltd.

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Recent Research Performance

Recent Research Performance

- Domestic and Overseas Paper

Name of Paper	Date
Study of Open source Classification Model based on Machine Learning	2018
Study on Prediction Method of Power Demand Data Using Bi-directional LSTM	2018
Keyword extraction of Open source software using text mining on machine learning	2018
SPDX Document Generation Visual Studio Plug-in development for Invigorating Blockchain based Software Distribution Platform	2017
SPDX Parser and Validator for Software Compliance	2017
Software Similarity Measurement based on Dependency Graph using Harmony Search	2016
Measurement for License Identification of Open Source Software	2016

- Domestic and Overseas Conferences

Name of Presentation	Date
A Blockchain based method inspecting integrity of painting analysis information for identifying original paintings	2019
Blockchain Information Change methods Comparison and Considerations	2019
Design and Implementation of Tor Traffic Collection System Using Multiple Virtual Machines	2019
Study of open source software category classification model based on TF-IDF technique	2018
Comparison of machine learning models' performance for open source software keywords classification	2018
Open Source Software Classification Model Using K-Nearnest Neighbor with Text Elements	2018
The Blockchain Platform Strategies To Enter Open Source Market Considering Characteristics of Open Source	2018
Android Open Source License Detection Using Static Code Analysis	2018
Comparison of machine learning models for open source software keyword classification	2018
Electronic Data Prediction Method Using Long-Short Term Memory Networks	2017
Method for License Compliance of Open Source Software Governance	2017
Integrated Development Environment Plug-In for SPDX Document Generation	2017
Development of SPDX Parser & Validator	2017
Method for License Compliance of Open Source Software	2017
A TF-IDF Similarity Measurement for License Identification of Source Code Files	2016
Solving the Subgraph Isomorphism Problem using Harmony Search	2016
Method for FOSS license compatibility verification using feature point comparison	2016

About LSware Co., Ltd.

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Recent Research Performance

Recent Research Performance

- Patent

Name of Invention	Date
ARTIFICIAL INTELLIGENCE BASED TARGET ACCOUNT RECONNAISSANCE BEHAVIOR DETECTION APPARATUS	2019
USER BEHAVIOR ANALYSIS BASED TARGET ACCOUNT EXPLOIT DETECTION APPARATUS	2019
Systems and methods for providing metadata for open source projects	2018
Systems and methods for managing software vulnerabilities using SPDX technology	2018
Systems and methods for providing metadata for open source projects	2018
Systems and methods for managing software vulnerabilities using SPDX technology	2018
Block-Chain Platform for Fraud Protection of Open Source Licenses and Copyright Information in SPDX Documents	2018
Open source SW recommendation technology using personal profiling	2018
Secure Power Trading System and Method Using Cyber Kill Chain Technique	2018
Authentication method of Remote meter reading system and smart meter	2018
Group communication method and system	2018
Analysis of paintings based on block chaining Analysis of information on paintings that detect forgery and alteration of information	2018
Tor network traffic collection system and method	2018
A method and system for Decentralized autonomous organization-based bidding that records energy trading in block-chain and recommends energy trading using reinforcement learning	2017
Blockchain Data analyzing Method based on Neural Network for Electric Power Trading	2017
System for managing vulnerability of software using SPDX technology and method thereof	2017
System for management database and method thereof	2016
System for controlling access of database using a user terminal	2016
System for constructing software project relationship and method thereof	2016
System for providing metadata of open source project and method thereof	2016
Method for checking incompatibilities between open source licenses based on feature points	2016

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**Recent
Research
Performance**

About LSware Co., Ltd.

Recent Research Performance

- Software Copyright

Name of Copyright	Date
Cryptographic Open API Module v2.0	2019
Generating Open Source Software Classification Criteria	2018
Open Source Software Category Keyword Extraction Program	2018
Text preprocessing program for software package	2018
Network traffic information extraction and database input program	2018
Tor network traffic collection program using virtual machine	2018
TA (Trusted Authority) Server V1.0 for secure modem authentication of smart meter devices	2018
DCU (Data Concentration Unit) Client V1.0 for secure modem authentication of smart meter	2018
Key generation program using Elliptic-curve Diffie-Hellman (ECDH) V1.0	2018
Cryptographic Open API module v1.0	2018
Anomaly Detection v2.0	2018
Contract program of blockchain-based power auction system	2017
BlockChain Based Power Auction System Buying Program	2017
Anomaly Detection v1.0	2017
BlockChain Program to Enable Open Source Copyright Distribution	2017
Software Package Data Specification (SPDX) Tracker	2017
FOSSChecker	2017
Software Package Data Specification (SPDX) Document Generation Plugin	2017
Software package data specification (SPDX) Web server for standard interface and open application programming interface (API) technology	2017
Software Package Data Specification (SPDX) Error Verification Program	2017
Software Package Data Specification (SPDX) Structure Analysis Program	2017
Source code similarity analysis tool	2016
FOSS License Analyzer	2016
Open Source Licensing Feature Point Identification Enhanced Learning Program	2016
OSS License Analysis Web Viewer	2016

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Recent Research Performance

About LSware Co., Ltd.
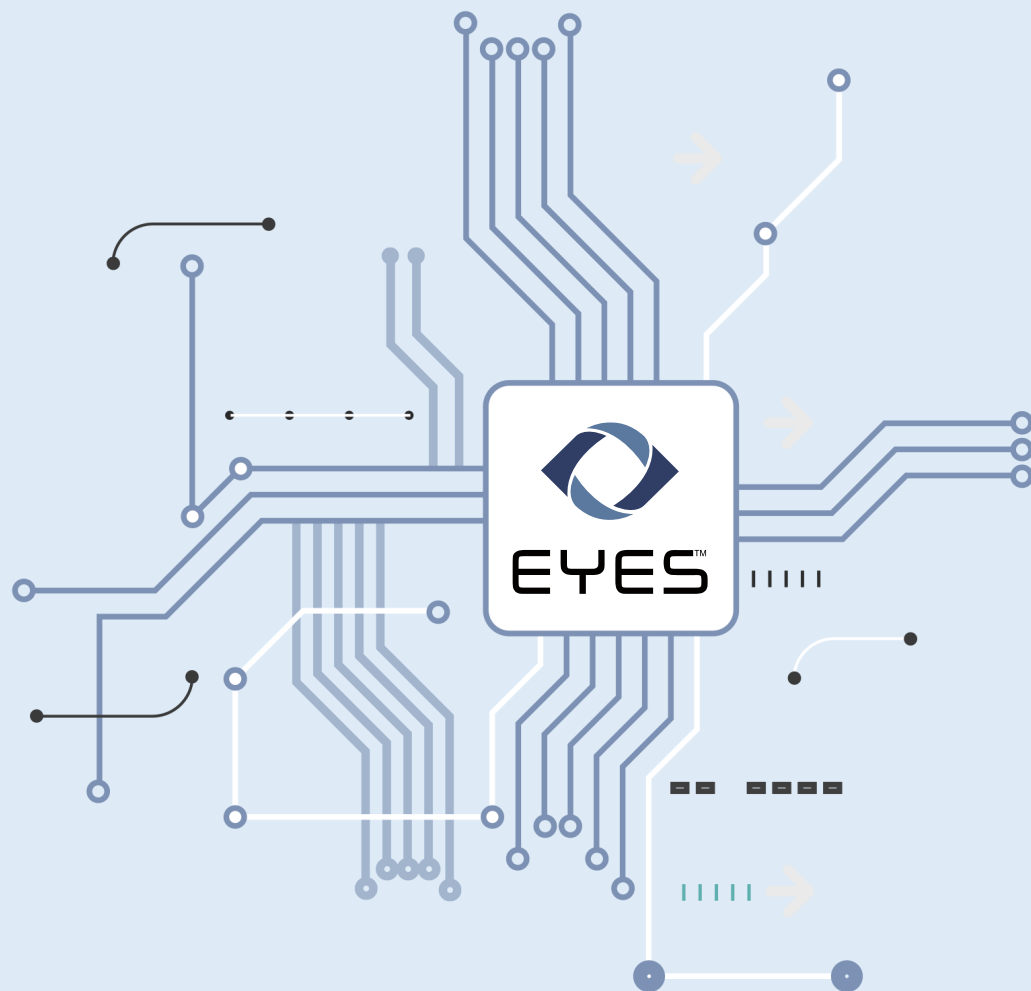
Recent Research Performance

- Standardization at domestic and overseas

Name of Presentation and Contribution	Date
The security guideline about Open Source Software (ASTAP-31)	2019
Status of Developing Simple Password authentication technologies and Standardization being compatible with PKI on Smart meter (ASTAP-31)	2019
OPEN SOURCE SOFTWARE LICENSE AND VULNERABILITY CHECKING ON SOFTWARE DEVELOPMENT LIFECYCLE (ASTAP-30)	2018
KNOWN VULNERABILITY CHECK MODEL BASED ON SOFTWARE RESOURCE INDETIFIER FOR OPEN SOURCE SOFTWARE (ASTAP-30)	2018
Known Vulnerability Check Model based on SPDX Metadata for Open Source Software (INP-50)	2017
Vulnerability of Blockchain based Open Source Information Sharing Model and its Response Guide (INP-47)	2017
Known Vulnerability Check Model based on SPDX Metadata for Open Source Software (INP-46)	2017
Vulnerability of Blockchain based Open Source Information Sharing Model and its Response Guide (INP-47)	2017
Vulnerability and Response Guide of Open Source Information Sharing Model based on Block Chain (TTA proposal)	2017
SPDX-based vulnerability checking model for open software (TTA proposal)	2017
Vulnerability and Response Guide of Open Source Information Sharing Model based on Block Chain (TTA proposal)	2017
SPDX-based vulnerability checking model for open software (TTA proposal)	2017
Categorization criteria of Open Source License (TTA standard)	2016

8-
Roadmap

Roadmap

Roadmap

- Year 2020

	DATA CENTER	FOSSGuard	EYES Protocol	BIZ
1Q	- Collect Open Source DB	- User interface Improve - Source code similarity verification - Binary file inspection - Off line Beta service		- Community Building - OSS License Issue Report(B.C. project) - Make Partnership
2Q	- Open the continuous collection system	- File license refine - License conflict resolve module	- QA for EYES Service - EYES Service Open(like as Google Interface) - Binary Exact Matching - Source code similarity service	- Second listing
3Q	- Management consol for refining	- Component consistency check - Keyward Search Module	- Contribute/reward Service - EYES Wallet	
4Q		- Vulnerability Verification Module - Governance Process Module	- Open source recommend service - App Store version - Payment module	- EYES ZONE(10 ea) - Third Listing

- Year 2021

|	DATA CENTER	FOSSGuard	EYES Protocol	BIZ
1Q	- Discover new OS site	- DevOps Interface	- EYES External Interface - Open source Family tree service - Bug Bounty	- OS License Issue Report
2Q			- Contract Vulnerability service - EYES AI Auto Module - SPDX support	- 4th Listing - Break the BEP
3Q			- Developer Community Service - Open source Governance Service - Verification History service	- China version open
4Q			- EYES ZONE 500 ea	

- Year 2022

	DATA CENTER	FOSSGuard	EYES Protocol	BIZ
1Q			- Code Rating Service	- OS License Issue Report
2Q			- Web vulnerability scan service	- Global service Open(EU, JP)
3Q				
4Q			- EYES ZONE 5,000 ea	

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Token Matrix
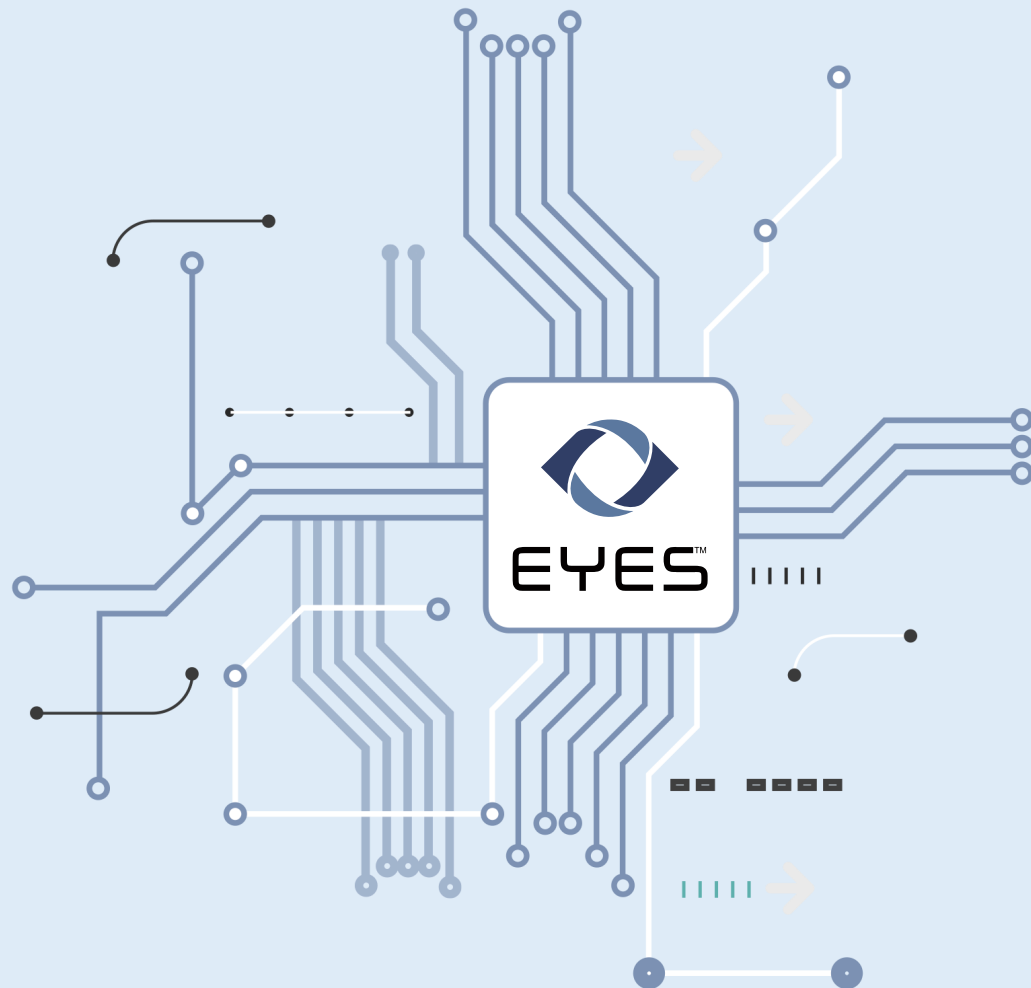
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Token Matrix

Token Matrix

Token Matrix

- Raising Amount

Total Token Issued	Public Sale
10,000,000,000	5%

- Token Allocation
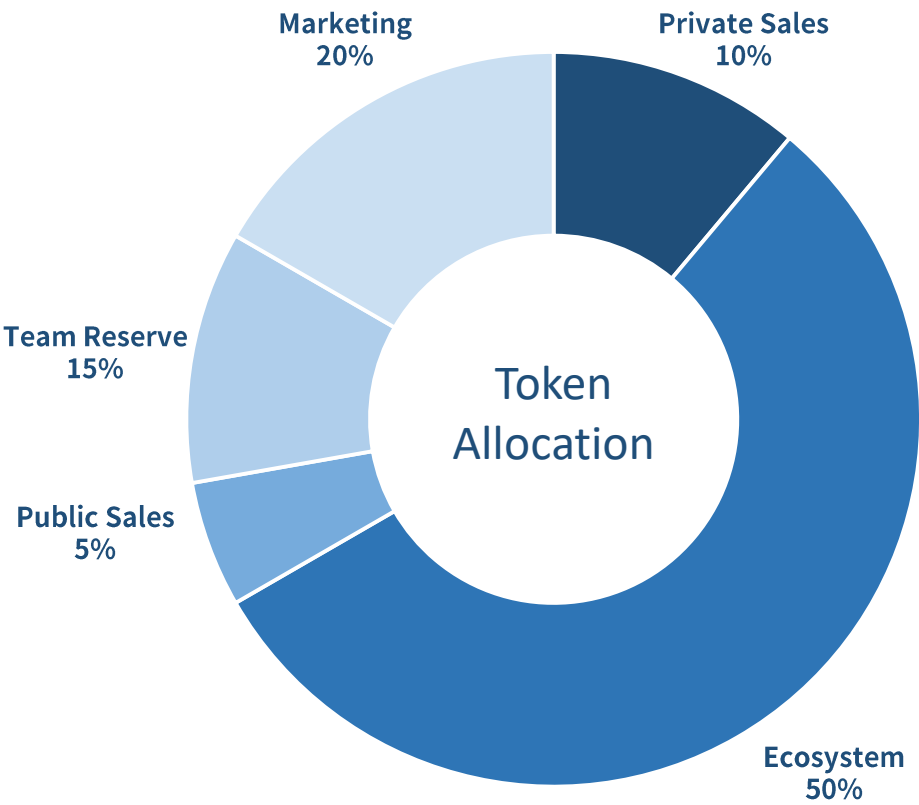
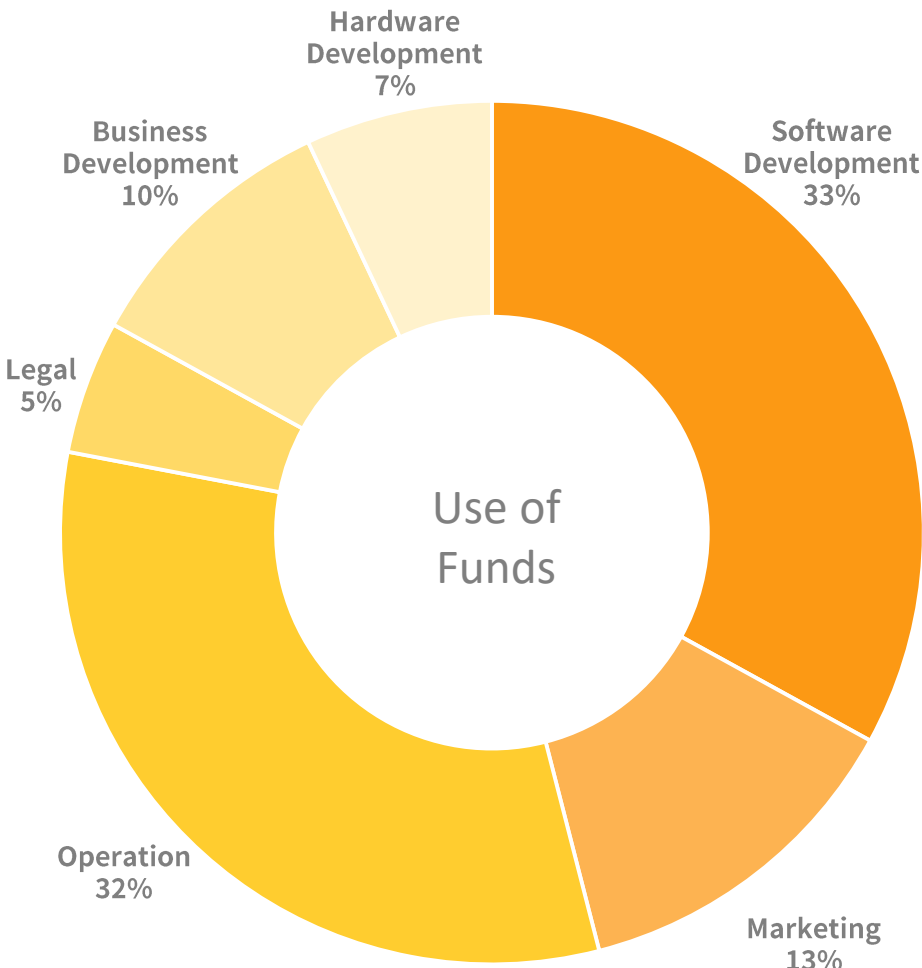|	Volume
Private Sales	1,000,000,000
Ecosystem	5,000,000,000
Public Sales	500,000,000
Team Reserve	1,500,000,000
Marketing	2,000,000,000
TOTAL	10,000,000,000

Token Matrix

Token Matrix

Token Matrix

- Use of Token

Software Development	Business Development	Hardware Development	Operation	Marketing	Legal
33%	10%	7%	32%	13%	5%

TOTAL
100%
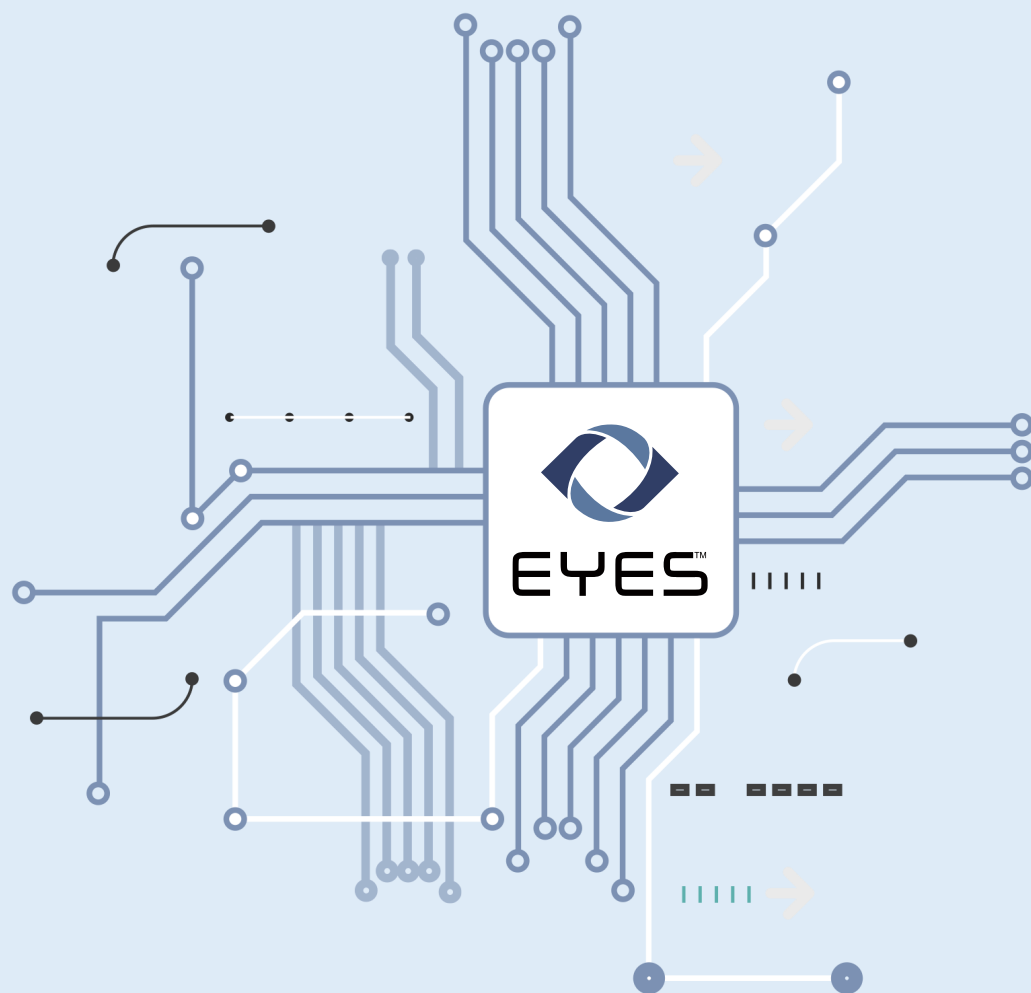
10-
Legal Considerations

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Legal Considerations

Legal Considerations

Legal Considerations

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Thank you

EYES™ LTD

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