



Nationally Accredited Software Testing
& Certification Body

WISESTONE

 WISESTONE



APAC
ASIA PACIFIC
ACCREDITATION COOPERATION



WISESTONE

All about Software Quality

About WISESTONE •

WISESTONE is a nationally accredited software testing and certification body.

In April 2018, WISESTONE gained recognition under the Korea Laboratory Accreditation Scheme(KOLAS) as both an internationally accredited testing laboratory and a nationally designated certification body. Today, WISESTONE serves as **Korea's leading company in software testing and certification.**



Korea's first laboratory
accredited by KOLAS
for software quality testing



Korea's first laboratory
accredited by KOLAS
for data quality testing



World's first
AI⁺ certification
testing laboratory



Certification body accredited
by the Ministry of the Interior
and Safety for civil defense
alert terminal equipment

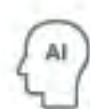


Certification body accredited
by the Ministry of Science
and ICT for data quality



A software and ICT quality
specialist with
18 years of experience

Areas of Expertise



AI



DATA



SAFETY



CYBER
SECURITY

WISESTONE delivers industry-leading testing and certification services for software and ICT products across a diverse range of specialized domains, including AI, data, functional safety, and cybersecurity.

About WISESTONE •

KOLAS Accredited Fields and Scope



-General Software (Quality Evaluation of Commercial Off-the-Shelf Software, COTS)

Field of accreditation	International Accreditation Standards
SW	ISO/IEC 25023:2016 - Measurement of system and software product quality
	KS X ISO/IEC 25051:2014 - Quality requirements and testing guidance for commercial software
	Ministry of Science and ICT Notification No. 2024-41 (Oct 29, 2024) : Software Quality Certification

-Data Quality / AI Quality (Evaluation of Data Quality, and Testing of AI System Quality, Performance, and Trustworthiness)

Field of accreditation	International Accreditation Standards
Data	ISO/IEC 25024:2015 - Measurement of data quality
	Ministry of Science and ICT Announcement No. 2023-0457: Data Quality Certification
	Big Data Platform and Center Data Quality Management Guide, 2021 (Big Data Quality Assessment)
	Guidelines for Quality Management of AI Training Data v3.1 (AI Training Data Quality Assessment)
AI	ISO/IEC TS 25058:2024 - Guidance for the Evaluation of AI System Quality
	ISO/IEC 25059:2023 - Quality Model for AI Systems
	ISO/IEC TR 24028:2020 - Overview of Trustworthiness in AI
	ISO/IEC TR 24027:2021 - Bias in AI Systems and AI-Aided Decision Making
	ISO/IEC TS 4213:2022 - Assessment of Machine Learning Classification Performance

-Functional Safety (Safety-Critical Systems) - Software Functional Safety Testing for Safety-Critical Systems in Industrial Control, Railway, Automotive, and Aviation Sectors

Field of accreditation	International Accreditation Standards
Functional Safety	IEC 61508-3:2010 - Functional safety for electrical, electronic, and programmable electronic safety-related systems - Software requirements
	MISRA C:2012 - Guidelines for the use of the C language in critical system
	IEC 62279:2015 - Railway applications - Communication, signaling, and processing systems - Software for railway control and protection systems
	ISO 26262-6:2018 - Road vehicles - Functional safety - Part 6: Product development at the software level

-Cybersecurity (Software Security Testing for Consumer IoT, Wireless Devices, and Financial-Related Equipment)

Field of accreditation	International Accreditation Standards
Cyber security	ETSI EN 303 645 V3.1.3: Cybersecurity standard for consumer IoT devices
	EN 18031-1:2024 - Internet-connected radio equipment
	EN 18031-2:2024 - Data processing radio equipment, namely Internet-connected radio equipment, childcare radio equipment, toy radio equipment, and wearable radio equipment
	EN 18031-3:2024 - Internet-connected radio equipment handling virtual currency or monetary value

-Secure Coding for Software (Testing and Evaluation of Security Vulnerabilities in Software Source Code)

Field of accreditation	International Accreditation Standards
SecureCoding	Ministry of the Interior and Safety Notification No. 2023-27 : Software Security Vulnerability Diagnosis Standards

Personnel Overview

89% of the workforce dedicated to testing and research	+7.8년 of average research experience	75% KOLAS-certified test engineers	100% Licensed in software and data testing
--	--	--	--

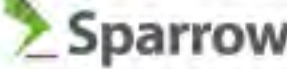
Key Strengths of WISESTONE

 Industry-leading volume of issued test reports	 Dedicated testing and certification research lab with expert personnel	 50% of the test reports issued by WISESTONE are KOLAS accredited test reports	 Broad KOLAS accreditation scope encompassing both emerging and advanced technologies
---	---	--	---

Related Organizations

 산업통상자원부	 과학기술정보통신부	 행정안전부	 중소벤처기업부	 국가기술표준원	 한국인정기구 KOLAS
 NIPA 정보통신산업진흥원 National IT Industry Promotion Agency	 NIA 한국지능정보사회진흥원	 TIPA 중소기업기술정보진흥원	 Kdata 한국데이터산업진흥원	 서울테크노파크 SEOUL TECHNOPARK	 TTA 한국정보통신기술협회 Telecommunications Technology Association
 AICA 인공자능산업융합사업단	 GICON 광주정보문화산업진흥원				

Corporate and Industry Partners

 한국상용SW협회 Korea Commercial Software Association	 KICTA 한국정보통신기술산업협회 Korea Information & Communication Technology Industry Association	 KOSA 한국소프트웨어산업협회	 한국전자문서산업협회 Korea Digital Content Association	 KSTA 한국 SW 테스트 협회 Korea Software Testing Association	 Kibwa (사)IT매장기업인협회
 SDCC 소프트웨어인증센터 Software Certification Center	 한국지능형사물인터넷협회 Korea Intelligent Things IoT Association	 KSA 한국표준협회 Korean Standards Association	 KOIIA 한국산업지능화협회	 FRIENDS 플러빌인 프렌즈	 TRINITY 트윈소프트
 Sparrow	 eggplant	 IWS INNO WATER SOLUTION	 STIC STIC VENTURES	 Apptest.ai	 eurofins KCTL
 b2en 주 비투엔	 JDS (주) 정데이타시스템	 NICE dun & bradstreet	 HCT HCT CO., LTD	 PCS	 ICR
					 EST ESTech Co., Ltd.

HISTORY

WISESTONE is emerging as a global authority in testing and certification, powered by advanced testing technologies.

2009~2016

- 2009** Established an in-house corporate research center and certified as a venture business
- 2011** Certified as an INNOBIZ enterprise
 - Signed an MOU with the Telecommunications Technology Association (TTA), Software Testing & Certification Division
 - Selected by the Seoul Metropolitan Government as an Excellent Job-Creation Company
- 2012** Selected as a Vision Club member by the Korea Technology Finance Corporation (KIBO)
- 2013** Selected again by the Seoul Metropolitan Government as an Excellent Job-Creation Company
- 2014** Obtained ISO 9001 Quality Management System certification
- 2015** Obtained GS (Good Software) certification for the OWL ITS 3.0 issue-tracking system
- 2016** Opened the Dalian OTC in China and signed an MOU with Mio Co., Ltd.
 - Signed an MOU with CMC Software in Vietnam
 - Awarded the Minister of Employment and Labor Commendation for Excellence in Job Creation

2007

Founded on June 20

2019

Became Korea's first KOLAS-accredited testing laboratory in data quality (ISO/IEC 25024)

Established WISESTONE-T and THETEST as spin-off corporations

Awarded the Prime Minister's Commendation on Software Industry Day

Awarded the Excellence Prize at the 18th Korea Software Business Competitiveness Awards (Embedded & Mobile Category)



2018

Achieved accreditation as a KOLAS international testing laboratory (Accreditation No. KT793)

2017

Established the ICT Testing & Certification Research Center

Designated as a Talent-Nurturing SME by the Ministry of SMEs and Startups

2022

Won a project by the Ministry of Science and ICT for the "Private Sector AI Trustworthiness Pilot Certification"

Issued Korea's first AI Trustworthiness Certificate in collaboration with KSA

2021

Acquired ISO/IEC 27001 Information Security Management System (ISMS) certification

Accredited as a KOLAS International Testing Laboratory in the field of software functional safety (IEC 61508)

Accredited by the Ministry of the Interior and Safety as a certification body for civil defense alert terminal equipment



2020

Launched the world's first AI⁺ Certification (AI Product Quality Certification) in collaboration with the Korean Standards Association (KSA)

Launched IDQ Certification (Industrial Data Quality Certification) in partnership with the Korea Industry Intelligentization Association (KOIIA)

Established the AI Quality Research Forum

Received the Minister of Science and ICT Award at the Korea Software Business Competitiveness Awards

2025

Established WISESTONEU, a local corporation in Uzbekistan

Signed an MOU with PCN to collaborate on AI and data-driven technologies

Signed an MOU with Estech and ICR to establish a Cybersecurity testing & certification system and promote industry growth

2024

Issued Korea's first DQ certificate for unstructured data
Signed an MOU with MAAB Innovation to establish a local corporation in Uzbekistan

Expanded KOLAS accreditation scope to include IoT cybersecurity testing and AI training data quality

Awarded a project by the National Information Society Agency (NIA) for quality validation of large-scale AI training data

Signed an MOU with NICE D&B to promote data quality certification and value assessment services

Signed an MOU with HCT for collaboration in cybersecurity and the advancement of ICT testing & certification

2023

Designated by the Ministry of Science and ICT as a nationally accredited data quality certification body

Received a Commendation from the Minister of Trade, Industry and Energy in the organizational category of KOLAS at its 30th anniversary, hosted by the Korean Agency for Technology and Standards

Advanced the AI⁺ Certification program in collaboration with KSA

Issued Korea's first DQ (Data Quality) Certificate
Relocated and expanded WISESTONE headquarters to a new building in Gwacheon

Signed an MOU with Eurofins KCTL to establish a cybersecurity testing & certification system and promote industry growth

KOLAS–Accredited Test Reports •

WISESTONE issues KOLAS-accredited test reports based on testing conducted in compliance with international standards.

Testing Areas



Purpose of Test Reports

KOLAS-accredited test reports are recognized in contexts requiring quality evaluation of software or ICT products, including:

- 01** Evaluation of outcomes from government-supported R&D projects
- 02** Quality evaluation of packaged and embedded software
- 03** Quality evaluation of software for procurement and bidding
- 04** Quality evaluation of information systems during inspection and acceptance
- 05** Use in promotion and marketing as objective proof of quality
- 06** Quality evaluation for entry into global markets

• KOLAS–Accredited Test Reports

Cybersecurity Testing

Cybersecurity testing is a mandatory conformity assessment conducted in accordance with international standards to comprehensively evaluate the confidentiality, integrity, authentication, and threat mitigation capabilities of security-related functions - such as communication mechanisms and cryptographic algorithms - in internet-connected devices.

Essential Cybersecurity Requirements under the CE RED (Radio Equipment Directive: Article 3.3)

• Network Protection (Article 3.3(d))

• Data & privacy protection (Article 3.3(e))

• Fraud Protection (Article 3.3(f))

Cybersecurity Testing Scope: Internet-connected Devices



Wired and Wireless
Communication
Equipment



Equipment for Processing
Personal and Sensitive
Information



Wearable
Devices



Smart Home
Appliances



IoT Toys and Devices
for Children



Radio Equipment
for Wireless Payment
and Authentication



IoT Hubs and
Gateway Devices

Cybersecurity Testing Standards

Category	EN 18031-1 / EN 18031-2 / EN 18031-3	ETSI EN 303 645										
Mandatory Requirement	Mandatory Implementation for CE RED Certification	Certification Guidelines										
Content	To prevent security incidents in radio equipment exported to Europe and connected to the Internet, additional requirements concerning personal data and financial information are applied based on EU policy-driven technical standards for security and network requirements, depending on product functionality.	Security Function-Centric Requirements for Consumer IoT Products Defines the minimum security requirements and privacy protection principles that must be ensured, providing manufacturers and developers with clear security guidelines for design development, and lifecycle management.										
Test Execution	Testing of All Applicable Requirements within the Relevant Standard for the Product <table><thead><tr><th>Standard</th><th>Target</th></tr></thead><tbody><tr><td>EN 18031-1</td><td>Network</td></tr><tr><td>EN 18031-2</td><td>Security Personal Data</td></tr><tr><td>EN 18031-3</td><td>Financial</td></tr></tbody></table>	Standard	Target	EN 18031-1	Network	EN 18031-2	Security Personal Data	EN 18031-3	Financial	The framework consists of 15 requirements for both documentation and products, comprising mandatory and recommended detailed requirements. Testing is conducted based on the selected requirements according to implemented functionalities and predefined conditions. Selectable Scope of Requirements <table><tbody><tr><td>Testing of Mandatory Requirements Only</td><td>Testing of Mandatory + Recommended Requirements</td></tr></tbody></table>	Testing of Mandatory Requirements Only	Testing of Mandatory + Recommended Requirements
Standard	Target											
EN 18031-1	Network											
EN 18031-2	Security Personal Data											
EN 18031-3	Financial											
Testing of Mandatory Requirements Only	Testing of Mandatory + Recommended Requirements											
Standards by Target Device	EN 18031-3 Internet-connected radio equipment handling virtual currency or monetary value EN 18031-2 Data processing radio equipment, namely Internet-connected radio equipment, childcare radio equipment, toy radio equipment, and wearable radio equipment EN 18031-1 Internet-connected radio equipment	ETSI EN 303 645 Consumer IoT Devices										

Key Strengths of WISESTONE

Over 18 Years of Testing and Certification Experience

- KOLAS Internationally Accredited Testing Laboratory
- Track Record of Over 340 Software Security and Quality Tests
- Issued More Than 4,300 Test Reports and Certificates

Technical Consulting

- Provide product analysis, test strategy development, and technical documentation guidance from the early stages
- Deliver specific improvement measures for identified issues
- Conduct vulnerability analysis through secure coding diagnostics
- Perform multiple iterations of regression testing

Expert Personnel

- Direct support from specialists with hands-on experience in CE RED cybersecurity regulation interpretation and testing

Rapid Response and Schedule Optimization

- Fast and accurate issue resolution
- Optimized testing timeline to shorten overall schedule

Quality Certification •

WISESTONE certifies the quality of software and ICT products through testing conducted in accordance with national laws and international standards.

Artificial Intelligence



AI⁺Certification (Artificial Intelligence Quality Certification)

WISESTONE and KSA jointly developed the world's first AI quality certification. This certification evaluates and certifies the quality of products that incorporate AI technologies, based on international AI quality standards.*

*ISO/IEC 25059, ISO/IEC 25051, ISO/IEC 42001



- Certification levels

AI⁺Certification **PREMIUM**

Evaluation of AI development requirements, quality management systems, and AI trustworthiness, including testing of model performance, reliability, and overall software product quality

AI⁺Certification **STANDARD**

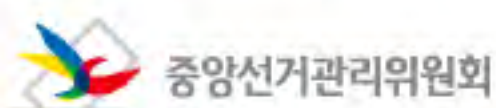
Evaluation of compliance with essential requirements for AI product development, including testing of AI model performance and functionality to verify overall quality

- Certification targets

Certification applies to all AI-powered products and services, including:



- Certified organizations



⋮
+ and more

Data

I DQ Certification (Data Quality Certification)



Certificate of Data Quality



Ministry of Science and ICT

WISESTONE is accredited by the Ministry of Science and ICT as a data quality certification body.

The Data Quality Certification (DQ Certification) is a system established under Article 20, Paragraph 5 (Data Quality Certification Targets and Quality Standards) of the Framework Act on the Promotion of Data Industry and Utilization.

It certifies data quality by diagnosing and evaluating ① content of the data ② the data management system in accordance with international standards and criteria.

- Certification targets



- Data content

■ Structured data evaluation

•Evaluation targets

Structured data refers to information organized and stored according to predefined formats and schemas, such as relational databases (MySQL, Oracle, PostgreSQL), spreadsheets (CSV files, Excel files), and structured text data.

•Evaluation indicators

The criteria assess the inherent quality of structured data based on the Data Quality Certification Guidelines issued by the Ministry of Science and ICT and align with ISO/IEC 25024 data quality measurement standards.

■ Unstructured data evaluation

•Evaluation targets

Unstructured data refers to object data such as images, videos, audio, and text, along with metadata that includes descriptions or annotations such as tagging and labeling.

Semi-structured data refers to data that has a partial organizational structure, typically stored in formats such as text files, XML, or JSON, and consisting of key-value pairs.

•Evaluation indicators

The criteria assess the quality of unstructured data based on the following standards—ISO/IEC 5259-2, the NIA Guidelines for Managing the Quality of AI Training Data, and TTAK.KO-10.1344-Part2—and are aligned with the Data Quality Certification Guidelines established by the Ministry of Science and ICT.

- Certification benefits



Achieving rapid improvements in data quality within a short timeframe



Ensuring data trustworthiness through certification endorsed by a nationally accredited certification body



Utilizing certification in marketing and promotional activity

Quality Certification

WISESTONE certifies the quality of software and ICT products through testing conducted in accordance with national laws and international standards.

| AI Trustworthiness Certification

The AI Trustworthiness Certification evaluates safety, transparency, bias, and explainability in line with international standards,* ensuring that AI systems provide trustworthy performance.

*ISO/IEC TS 25058 (Guidance for the Evaluation of AI System Quality), ISO/IEC 25059 (Quality Model for AI Systems), ISO/IEC TR 24028 (Overview of Trustworthiness in AI), ISO/IEC TR 24027 (Bias in AI Systems and AI-Aided Decision Making), ISO/IEC TS 4213 (Assessment of Machine Learning Classification Performance)



- Certification benefits



- Key certification examples



| Civil Defense Alert Terminal Equipment Certification

WISESTONE is authorized by the Ministry of the Interior and Safety, under Article 33, Paragraph 2 of the Framework Act on Civil Defense, to certify civil defense alert terminal equipment. Certification is granted through rigorous quality testing of the equipment.



- Certification Target

All devices installed in buildings designated for civil defense alert transmission, capable of broadcasting alerts through the building's internal public address (PA) system.



Software Testing Services •

WISESTONE provides software testing services optimized to the specific requirements of various industries, including telecommunications and mobile, e-commerce, finance, public sector, AI and IoT, and embedded systems.

What is Software Testing?

Software testing is a professional verification service designed to ensure that developed software meets the required functions and quality standards, while identifying potential errors or defects in advance to secure product reliability and stability.

Why Software Testing is Essential

**Quality Assurance**
Identify functional errors, usability issues, and security vulnerabilities in advance

**Risk Mitigation**
Prevent critical failures that may occur after product release

Enhanced User Satisfaction
Deliver highly reliable products to reduce customer complaints and improve satisfaction

Cost Reduction
Detect errors in the early stages of development to minimize rework costs

Brand Value Enhancement
Strengthen corporate credibility and brand value by delivering high-quality software

Major Types of Software Testing Services

Functional Testing
Verify that the required functions operate correctly

Performance Testing
Measure system response under heavy user load or stress conditions

Security Testing
Identify risks such as hacking, intrusion, and data leakage

Compatibility Testing
Ensure proper operation across various os, browsers, and device environments

Regression Testing
Verify that existing functions work correctly after modifications

Test Automation
Improve efficiency by automating repetitive test processes with tools

Usability Testing
Assess ease of use and overall user experience from the end-user perspective

Why Choose WISESTONE

**18 years of testing expertise**
Over 300 projects completed for public institutions and large enterprises

**Client-centered service delivery**
Testing optimized to client requirements, including duration and scope

**Expert resource matching by domain**
Qualified specialists assigned by domain, including AI, embedded systems, web, and mobile platforms

**Comprehensive and structured deliverables**
Test results and documentation, including detailed test plans and test cases

Software Testing Solutions •

WISESTONE develops, supplies, and provides diagnostic services for a wide range of software testing solutions.

Test Automation



Project Management



Cloud-based issue tracking system

- Powerful issue tracking capabilities
- Support for diverse workflow types
- Excel import/export functionality and more



All-in-one collaboration tool for development project management

- Kanban board functionality
- Project and schedule management features
- Additional tools including messenger, timeline, and file sharing

Secure coding vulnerability assessment



- High-speed, accurate analysis engine
- Easy installation through a web-based solution
- Support for multiple compliance standards
- Integrated management features



- Powerful source code analysis
- Broad compatibility and integration with various plugins
- Convenient and rapid issue remediation
- Efficient management of analysis results

• Software Testing Solutions

StoneDQ - Data Quality Validation Tool

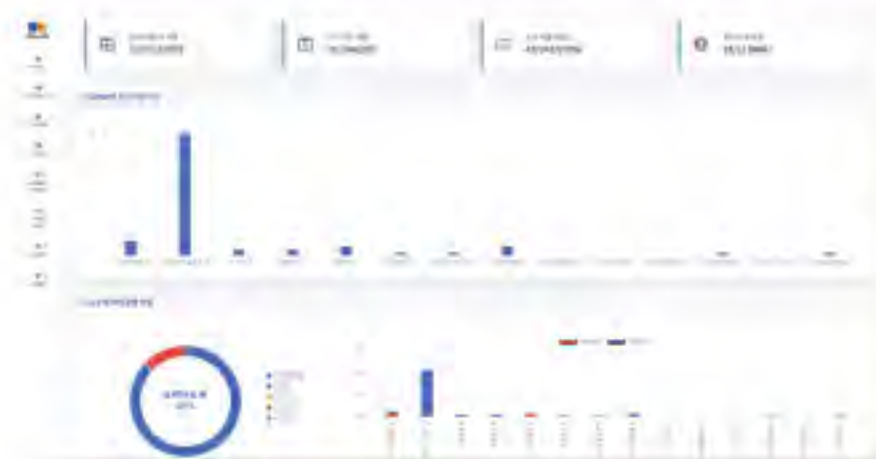


StoneDQ is a data quality validation tool developed by WISESTONE, a data quality certification body designated by the Ministry of Science and ICT.

It is built upon years of expertise in conducting DQ Certification and proprietary technical capabilities. The tool systematically examines accuracy, consistency, integrity, and timeliness within vast datasets to establish a reliable data environment.

It maximizes the speed and precision of data validation tasks while supporting the entire validation process in an efficient and structured manner.

Key Features and Processes of StoneDQ



Projects

Systematic operation by unit and protection of customer information



Databases

Simultaneous assessment of multiple databases within a project, supporting major DBMS platforms



Review Rules

Enhancement of data quality levels through standardized and diverse quality rules



Review settings

Table- and column-level configuration with automated matching to maximize operational efficiency



Review Execution

Supports full or partial assessments with real-time monitoring for easy progress tracking



Review Results

Automatic classification based on criteria, Validation result verification, and Excel report download for extended usability

Expected Benefits of StoneDQ



Enhanced Transparency

Strengthens reliability by ensuring full disclosure of all processes



Error Minimization

Prevents mistakes and omissions through systematic procedures



Assured Trustworthiness

Maintains consistency of results based on objective standards



Improved Quality

Continuously elevates the quality of data and overall business operations



Increased Competitiveness

Enhances corporate value by securing high data quality



wisestone.kr



B-1407, 33 Gwacheon-daero 7-gil, Gwacheon-si,
Gyeonggi-do, Republic of Korea

Tel : +82-2-6257-5958 | E-mail : service@wisestone.kr