



Korea Association of Regional Public Hospital (2021) – Public Infrastructure

2021 Provincial Medical Center Informatization Support Project
(Unified Log Management System Implementation)

Client Overview

The National Association of Provincial Medical Centers is an incorporated association representing provincial medical centers, the backbone of public healthcare. It is dedicated to improving public health through hospital operational support. To strengthen information security in compliance with the Personal Information Protection Act and related guidelines, unified log management systems were deployed across 32 medical centers in 12 regions nationwide, including Incheon, Gyeonggi, Gangwon, Daegu, Gyeongbuk, Chungbuk, Chungnam, Jeonbuk, Jeonnam, Gyeongnam, and Jeju.

Deployed Products & Services

eyeCloudSIM v3.1 – LMS
(Integrated Log Management Solution)

The National Association of Provincial Medical Centers introduced a unified log management system to comply with the Personal Information Protection Act and information security guidelines and strengthen its medical information protection frameworks. The need arose to integrate log management systems previously operated independently by the 32 provincial medical centers nationwide, enabling them to systematically collect and store security logs and more effectively manage medical information access records.

Accordingly, the association deployed the LMS across all 32 medical centers nationwide, standardizing its medical information security frameworks and establishing a unified log management environment. This initiative strengthened security operations across each center and secured a foundation for efficiently operating compliance systems for personal information protection and security regulatory compliance.

Aug 2021 – Sep 2021

Project Period

Concept map

Deployed to 32 Regional Medical Centers
(Zone 1: Seoul, Zone 2: Daejeon, Zone 3: Gwangju)

Unified Log Management System (SIEM)	Region	No. of Centers
<p>eyeCloudSIM</p> <p>Monitor Detect</p> <p>Analyze Report</p> <p>Faster Response & Troubleshooting</p> <p>Enhanced Security & Privacy</p> <p>Improved Ops Efficiency & Mgmt</p>	Incheon	1
	Gyeonggi	6
	Gangwon	5
	Daegu	1
	Gyeongbuk	4
	Gyeongnam	1
	Chungbuk	2
	Chungnam	4
	Jeonbuk	3
	Jeonnam	3
	Jeju	2
	Total	32



Solution

Building a Unified Security Framework for Medical Information Protection and Operational Efficiency

The National Association of Provincial Medical Centers deployed an eyeCloudSIM-based unified log management system to strengthen medical data protection and security operations. Previously, the lack of a centralized framework made integrated management across the 32 provincial medical centers difficult, resulting in insufficient consistency in security log analysis and storage.

Through this deployment, the association centralized management of all security logs from individual medical centers and improved security event response capabilities by enhancing real-time search and analysis functions. Specifically, leveraging eyeCloudSIM's high-capacity log processing capabilities enabled efficient storage and analysis of the diverse logs generated within medical systems.

To maximize log storage and analytical performance, a distributed processing architecture was applied to ensure stable management of large-scale data.

A customized dashboard was developed to allow security personnel to centrally query and manage log data from all centers, while the reporting system was optimized for systematic security audits and regulatory compliance.

Benefit

Strengthening Medical Data Protection and Management Efficiency through a Unified Security Operations Framework

The association established a unified log management system to connect the 32 medical centers nationwide and reinforce medical data protection. As medical institutions handle sensitive personal information, security incidents directly impact public trust, making robust security frameworks essential to guarantee stable medical services.

This deployment secured a foundation for centralized management of security logs across all provincial medical centers, significantly elevating medical data protection levels. While fragmented IT infrastructure previously made proactive threat detection and response difficult, the interconnected security framework now enables consistent security policies and fosters a collaborative environment among hospitals.

Through this project, the association protected patient medical data safely and ensured the reliability and integrity of medical information by establishing a nationwide interconnected security system for healthcare institutions.



Summary

1. Strengthening medical data protection through a unified security operations framework across nationwide healthcare institutions
2. Ensuring medical service continuity through centralized security log management and long-term retention
3. Enhancing security operational efficiency across healthcare institutions through optimized audit and regulatory compliance frameworks