References

Integrated Cloud Migration Project for Information Systems in Public and Administrative Institutions	➡ Establishing Stable Open Source Middleware Services in Public and Administrative Institutions
Education System Migration for Public Education Centers	➡ Resolving Persistent System Overload & Maximizing System Flexibility and Efficiency
Establishment of an Integrated Workforce Training Platform for Art Council Korea	➡ Implementing an Open Source-based Training Platform and Securing Operational Stability
Establishment of a Loss Compensation System for Public Institutions	➡ Increasing Simultaneous Accesses, Ensuring Rapid Responses, Swift Service Establishment and Operation

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OpenSource Middleware Platform

HyperFrame

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HyperFrame

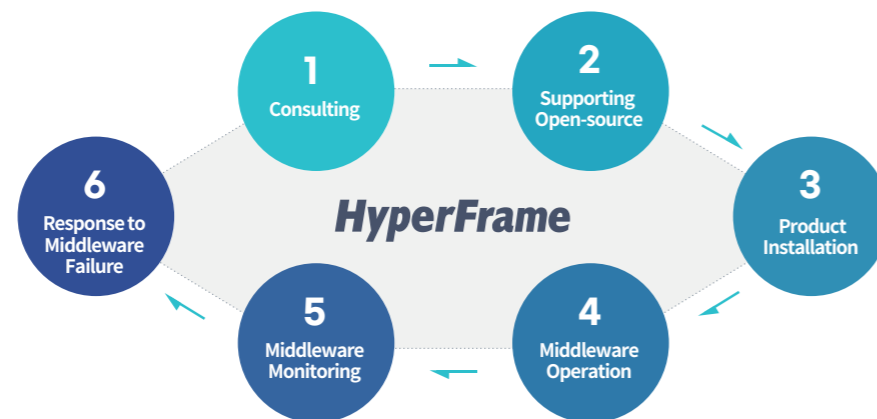Open Source Middleware Platform

Overview

HyperFrame is an open-source middleware platform built on the TmaxSoft's proprietary open-source technologies and extensive experiences. The product provides end-to-end services, including customized consultation to system set-up, operation, maintenance, and technical support.

By providing a cloud-optimized open-source solution and supporting the system adoption with the expertise of proven professionals, we deliver a stable open-source technical support service at a commercial software level.
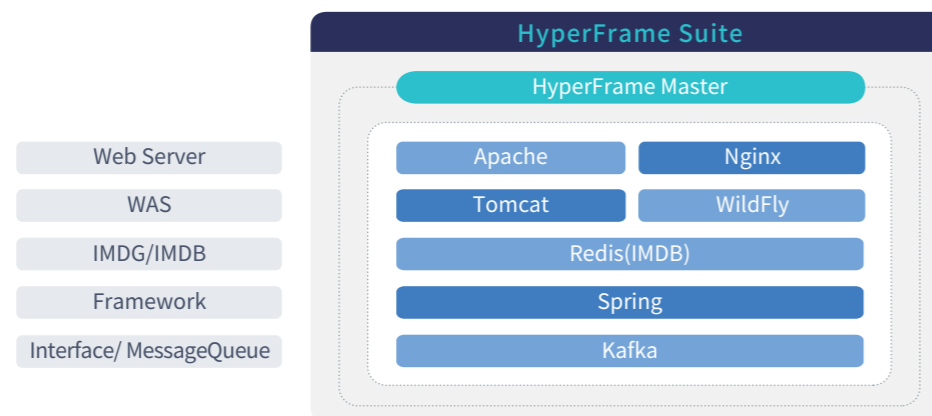
Strengths

1. Integrated Middleware Service

• Provides integrated open-source solution services, including consulting, operation, and technical support for both on-premise and cloud middleware.
• Supports cloud-optimized services through system advancement and re-architecting, supported by professional consultants.

HyperFrame

1 Consulting
2 Supporting Open-source
3 Product Installation
4 Middleware Operation
5 Middleware Monitoring
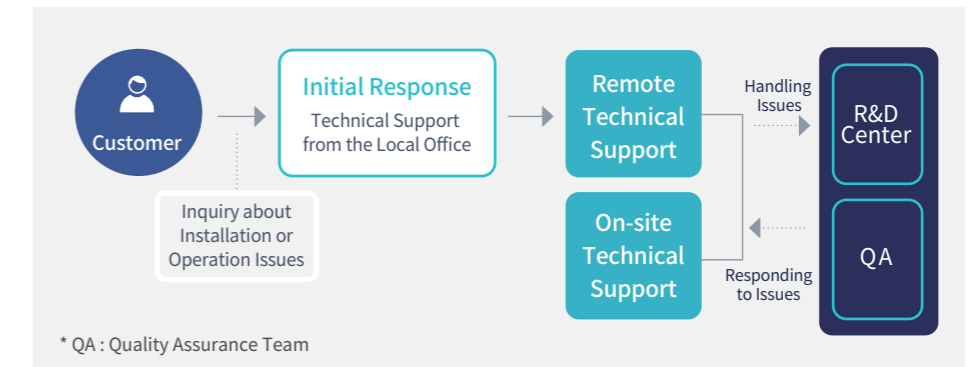6 Response to Middleware Failure

2. Proven Open-Source and Monitoring

• Provides open-source solutions proven by the middleware R&D center.
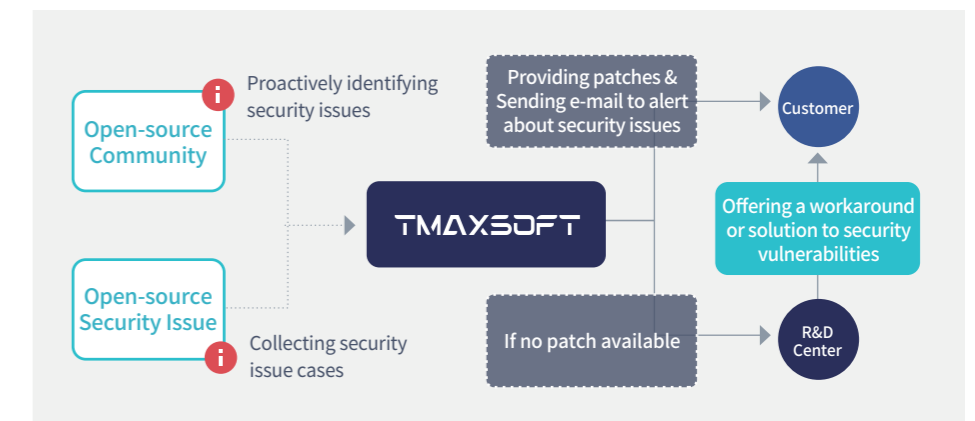• Offers middleware failure monitoring software.

HyperFrame Suite

HyperFrame Master

Web Server	Apache	Nginx
WAS	Tomcat	WildFly
IMDG/IMDB	Redis(IMDB)	
Framework	Spring	
Interface/ MessageQueue	Kafka	

Services

1. Operating Technical Support Center

• Commercial-level 24x365 technical support
• Professional middleware workforce

Customer → Initial Response Technical Support from the Local Office → Remote Technical Support → Handling Issues → R&D Center

Inquiry about Installation or Operation Issues

On-site Technical Support ← Responding to Issues ← QA

* QA : Quality Assurance Team

2. Supporting Open-Source Security

Open-source Community → Proactively identifying security issues

Providing patches & Sending e-mail to alert about security issues → Customer

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Open-source Security Issue → Collecting security issue cases

Offering a workaround or solution to security vulnerabilities

If no patch available → R&D Center

Benefits

Reducing Migration and Issue Resolution Time

• Provides stable migration through the systematic technical support process.
• Reduces issue resolution time by quickly analyzing the cause and responding promptly.

Saving Total Cost of Ownership (TCO)

• Saves development and maintenance cost.
• Improves IT cost efficiency by adopting the right solution that meets customer requirements.

Improving Operation and Manageability

• Provides an integrated monitoring environment for managing various open-sources in a consolidated way.
• Applies common UI across different areas to enhance user convenience.