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Whitepaper

Apusic Application Server V10

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1 Overview

1.1 Introduction

In the wave of digital transformation, enterprises are facing increasingly complex business needs and a rapidly changing market environment. As the core supporting platform for enterprise - level applications, the Application Server has demonstrated its indispensable importance in this context. It not only provides enterprises with powerful functions and services but also offers a stable, efficient, and secure environment for the operation of various applications, serving as a crucial bridge connecting enterprises' business needs with the realization of information technology.

1.2 From Xinchuang to Domestic Middleware

The Xinchuang industry, namely the Information Technology Application Innovation industry. Over the past many years, most of the domestic IT underlying standards, architectures, and ecosystems have been formulated by foreign IT giants, which brings about many security risks. Therefore, we need to gradually establish our own IT underlying architecture and standards to form an independent and open ecosystem, which is the core of the Xinchuang industry. In simple terms, it means achieving domestic substitution in areas such as core chips, basic hardware, operating systems, middleware, and data servers. The Xinchuang industry is the foundation of data security and network security, an important part of the "New Infrastructure," and will become one of the important drivers for economic development. Middleware is an indispensable and important part of the Xinchuang industry ecosystem.

At present, for domestic middleware, compared with foreign manufacturers, domestic middleware mainly adopts the Java route. Functionally, it supports functions such as Web applications, EJB applications, virtual hosts, application server clusters, identity verification, and log auditing. It provides tools such as class library management, integrated environment management, graphical monitoring, JVM configuration, and garbage collection configuration. It supports instance deployment and database connection services and can provide an operating environment for business systems.

1.3 Apusic ‘s Innovation Path

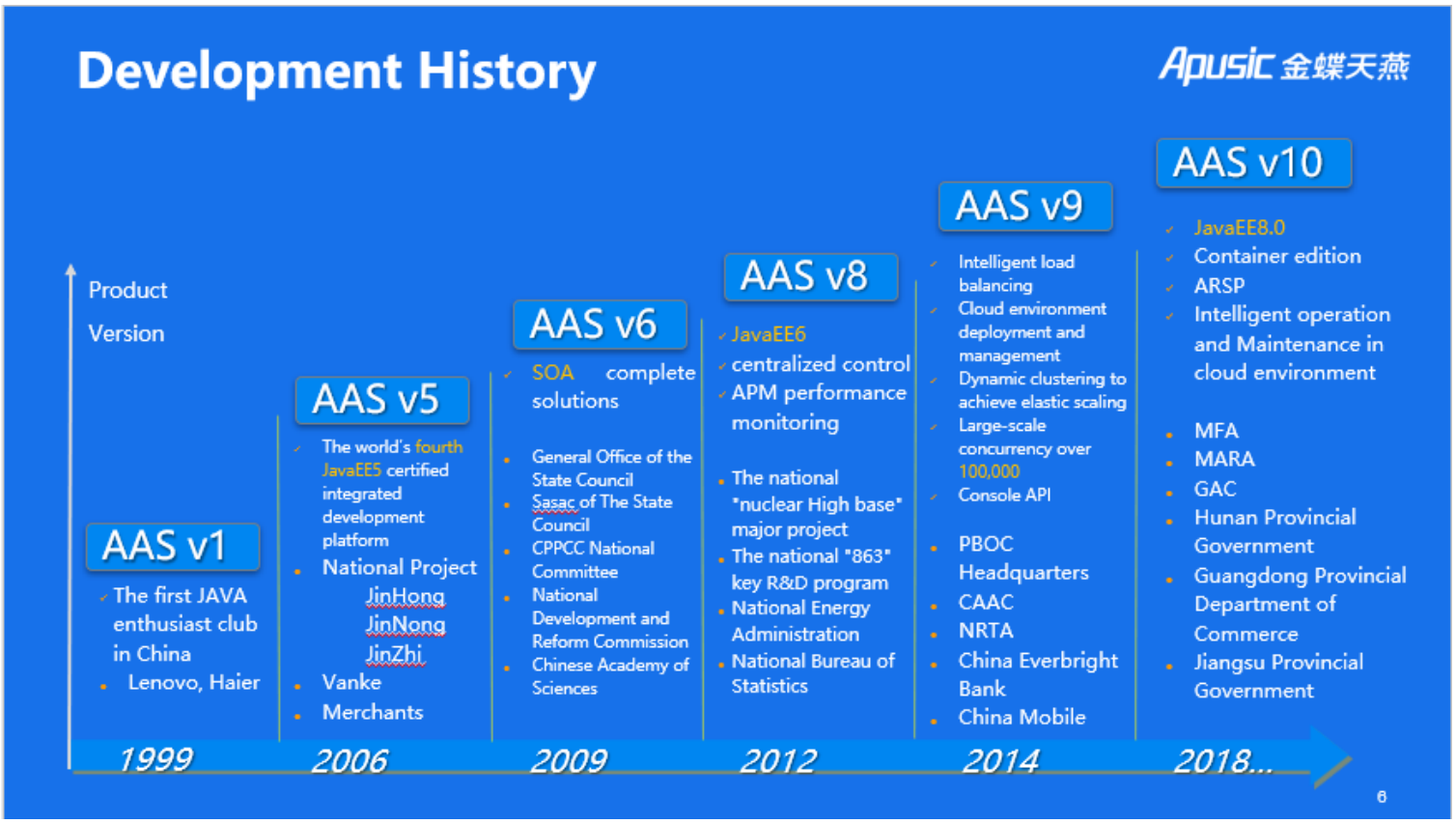
Apusic joined the JCP organization as early as the establishment of the company, becoming one of the earliest middleware manufacturers to participate in international standard - setting work. When Eclipse took over the governance of Java enterprise - level technology, Apusic became the earliest domestic manufacturer to join the Jakarta EE working group, serving as a brand and market committee member of the Jakarta EE working group and taking on the responsibility of technical evangelism. On the one hand, we will lead the development of products and technologies in China. On the other hand, we take it as our responsibility to promote the widespread

application and development of Java enterprise - level technology. Together with domestic and foreign counterparts, we will base ourselves in China and look out to the world, aiming to become a world - leading basic software manufacturer.

Apusic's middleware products are widely used in the fields of the Party, government, military, central enterprises, and state - owned enterprises. Since the "10th Five - Year Plan" period, in the upsurge of the national e - government construction centered around the "two networks, one website, four databases, and twelve golden projects", Apusic has successively provided basic software support platforms for projects such as "Jin Hong", "Jin Zhi", "Jin Bao", "Jin Nong", and the "National Geospatial Information Database". Up to now, Apusic's middleware products have been providing services to more than 50 ministries and commissions, hundreds or even thousands of local governments at the provincial and municipal levels. Counting local government departments and various administrative institutions, the total number of served customers has exceeded 100,000, strongly supporting the cause of national e - government construction.

Since the industrialization of the Core Electronic Devices, High - end General - purpose Chips, and Basic Software Products (referred to as "Nuclear High - Base") project and the pilot project of electronic official documents, Apusic, together with chip manufacturers (including Kunpeng, Loongson, Phytium, Shenwei, Haiguang, Zhaoxin), operating system manufacturers (including Kylin Software, Uniontech Software, CAS Fangde, Primware), database manufacturers (including GaussDB, DM, KingbaseES, Tongtech, Nanda, Youxuan, Highgo), as well as hundreds of domestic software and hardware manufacturers including streaming software, plate - type software, electronic signatures, browsers, and electronic official document applications, has constructed a comprehensive domestic solution. Along with domestic counterparts, Apusic is determined to create a completely independent and self - controlled Xinchuang enterprise capability system in all aspects such as the market, supply chain, product research and development, technological innovation, and application promotion.

1.4 Development History



Kingdee Apusic Application Server is the flagship Java middleware product of Apusic. After 20 years of unremitting efforts, independent innovation, and dedicated research and development, it has now gone through the development of ten major versions and seven in - depth systems. It provides a solid and reliable basic operating platform for critical applications in important industries such as the Party and government, central enterprises, finance, and telecommunications.

Kingdee Apusic Application Server was born in 1999. Currently, it has served more than 10,000 customers in the Party, government, military, industry, and group enterprises. It is the first domestic JAVA middleware in China. It is also the first in China and the fourth in the world to pass the JavaEE 5.0 certification. Moreover, it is the world's first commercial product to pass the new Jakarta EE 9 certification. The long - term technological leadership of Kingdee Apusic Application Server benefits from the strong R & D capabilities of Kingdee Apusic, which took the lead and has accumulated profound strength. Apusic is a member of the national cloud computing standard - setting organization and the leading unit of the national key research and development plan projects. It has taken the lead in formulating 5 national cloud computing standards, participated in formulating 8 national cloud computing standards, 3 national major special projects for core electronic devices, high - end general - purpose chips, and basic software products, and 3 national key research and development plans. It is the first middleware enterprise in China to join the JCP organization and participate in formulating the JavaEE international standards.

2 Product Introduction

2.1 Product Overview

Kingdee Apusic Application Server is an enterprise - level application server that is standardized, secure, efficient, integrated, and rich in functions. It fully supports the Jakarta EE technical specifications, provides Web containers, EJB containers, WebService containers, etc., that meet these specifications, and supports the latest technical specifications such as Websocket, Servlet, and HTTP. As a reliable basic platform for the operation of enterprise - level applications, it provides crucial support for the convenient development, flexible deployment, reliable operation, efficient management and control, and rapid integration of enterprise - level applications.

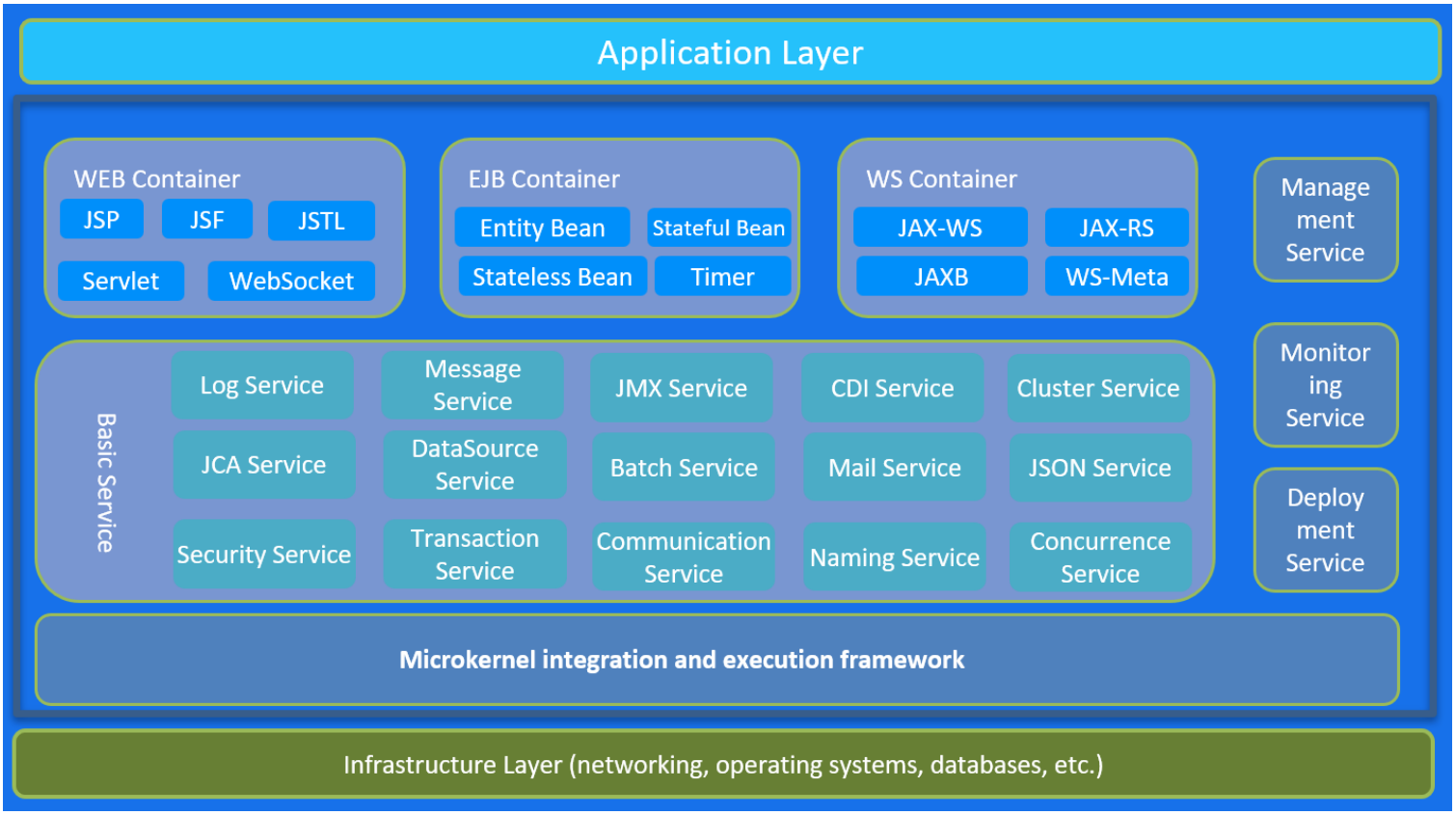
2.2 Target Customers

The product is widely applicable to various enterprise customer groups with Java technology at the core. This includes but is not limited to: Internet technology companies, which use its fast - development and iterative features to launch innovative online services; numerous institutions in the financial industry, which rely on the high reliability and security features of Kingdee Apusic Application Server to handle massive financial transactions; the digital departments of large enterprises, which rely on its strong scalability to integrate complex internal business systems; as well as the informatization teams in the education, medical, and other fields. These teams build stable and efficient industry - specific application platforms through Kingdee Apusic Application Server to meet their specific business needs and promote the digital transformation of their respective industries.

3 Product Architecture

3.1 System Architecture

The product architecture of Kingdee Apusic Application Server is built on top of the micro - kernel framework (OSGi). On the basis of ensuring the stable and efficient operation of the product kernel, it has good scalability and achieves forward and backward compatibility. In addition, Kingdee Apusic Application Server encompasses a wealth of basic services, offering high - performance Web containers, EJB containers, Web Services containers, etc. It also provides a wide range of functions for the product's security and manageability.



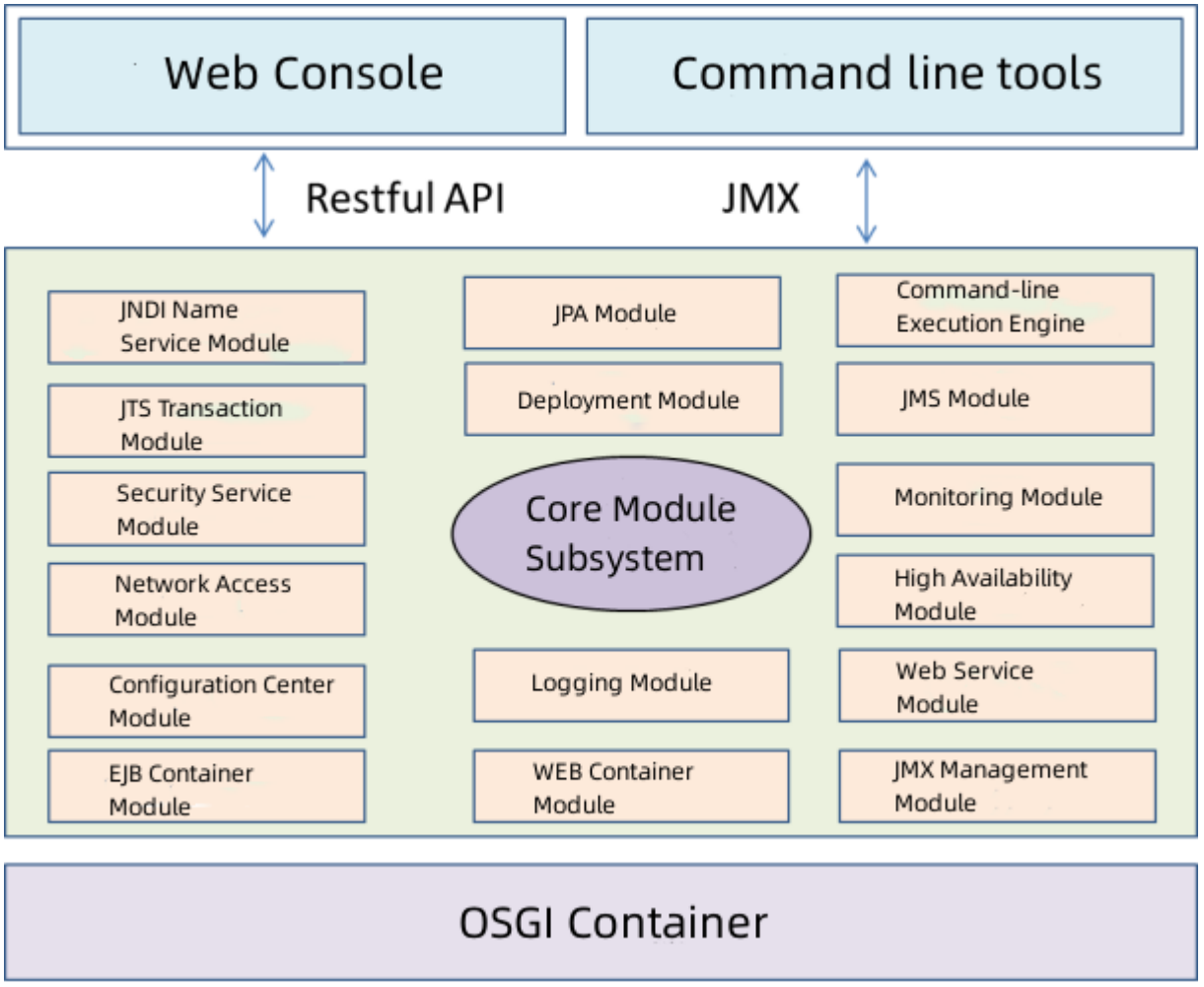
Kingdee Apusic Application Server supports Jakarta EE 8/9/9.1/10 specifications, cloud deployment, rapid development of microservices, high - availability clusters, national cryptographic algorithms, three - role - separated management and control, and low - code development (Kingdee Sky Platform). Its unique embedded security middleware function can provide real - time security protection for the application systems running on it, actively detect application - layer security vulnerabilities, and carry out timely and effective attack defenses to ensure the security of users' application information. As a core Xinchuang middleware product, AAS has been widely used in key industries/fields such as the Party and government, finance, telecommunications, energy, power, military industry, and tobacco. The total number of product installations has steadily ranked first, winning a good reputation among users.

Kingdee Apusic Application Server supports new Web application technologies such as WebSocket and Servlet 4.0. While ensuring its replaceability with foreign competitors, it achieves full compatibility with various mainstream open - source Java development frameworks, helping users and partners to migrate, deploy, and launch application systems with domestic - made alternatives at the fastest speed and lowest cost.

Kingdee Apusic Application Server realizes a micro - kernel architecture based on OSGi, which is stable, efficient, forward and backward compatible, and highly scalable.

3.2 Module Description

Kingdee Apusic Application Server, as a comprehensive implementation of Java Platform, Enterprise Edition (JavaEE), is obligated to fully materialize all the functions defined within the JavaEE framework. Given the extensive and complex nature of the JavaEE architecture, a modular design approach has been adopted in its development. The overall system is structured around several major modules, each of which is further decomposed into a number of smaller sub - modules during implementation. This modular architecture not only enhances the maintainability and scalability of the system but also facilitates more efficient development and customization, enabling the server to better meet the diverse requirements of enterprise - level applications in different scenarios.



4 Core Functions

4.1 Java EE Standard Support

Kingdee Apusic Application Server fully complies with the Java EE specifications, supports Jakarta EE 8/9/9.1/10, and is compatible with various mainstream JavaEE technology frameworks, accelerating the application migration speed. It supports technologies ranging from Web - layer technologies such as Servlet and JSP to enterprise - level technologies like EJB and JMS (Java Message Service). For example, regarding the Servlet 3.0 specification, Kingdee Apusic Application Server has implemented advanced features such as asynchronous processing and non - blocking I/O, enabling developers to build high - performance Web applications. It supports the JPA (Java Persistence API) specification, facilitating developers to perform object - relational mapping and achieve data persistence. For specification information, please refer to the "JakartaEE8 Specification Table" in the text.

4.2 WEB Container

Kingdee Apusic Application Server supports the Servlet container and JSP engine, which are used to handle dynamic resources. It can receive and parse HTTP requests from clients, and distribute them to the corresponding Servlets, JSPs, or static resources according to the request content.

It supports session management, creating sessions for users and tracking user states through session IDs. In terms of resource management, it loads and organizes resources, and also utilizes caching and thread - pool technologies to optimize performance.

The WEB container supports the deployment of applications in the form of WAR files. Moreover, parameters such as the listening port, thread - pool size, and session timeout can be adjusted through configuration files or the management interface. It also has security features such as identity authentication, authorization, and SSL/TLS support.

4.3 EJB Container

Kingdee Apusic Application Server supports the lifecycle management of EJB components and can automatically handle the creation and destruction of EJB components. It supports multiple transaction attributes, which enables developers to flexibly specify the way EJB methods participate in transactions according to business requirements. It supports pooling management, using resource pools to reduce resource overhead and improve concurrent processing capabilities.

4.4 Connection Service

Kingdee Apusic Application Server supports the HTTP (Hypertext Transfer Protocol), provides support for HTTPS based on the Secure Sockets Layer (SSL) protocol, and is compatible with HTTP2 and lower versions. It supports the management and configuration of virtual hosts. The Virtual Host technology allows users to divide a single computer host into multiple "virtual" hosts. Each virtual host has an independent domain name and IP address, and possesses complete Internet server functions. Different virtual hosts can be configured for applications.

4.5 Data Source Connection Service

Kingdee Apusic Application Server enables enterprise applications to access relational databases through the data source connection service. It supports the JNDI (Java Naming and Directory Interface) configuration of databases and the management of multiple data sources. It supports local transactions and XA transactions for database connections and provides a data source connection pool function. It supports the configuration of strategies such as statement leakage recovery and connection leakage recovery. It is compatible with domestic databases, such as Dameng, KingbaseES, GaussDB, and Tongtech.

4.6 Persistence Service

Kingdee Apusic Application Server supports JPA (Java Persistence API), offering functions for entity object/relational mapping, query processing, and caching. It provides a runtime environment for developing scalable and transaction - supported programs, isolating persistent entities from the underlying persistence details. Developers only need to define entity classes without paying attention to specific implementations, which simplifies the development process. It has data storage and retrieval functions, efficiently formatting and organizing data. Meanwhile, it facilitates quick data lookup through means such as indexing. It supports transaction processing to ensure data consistency, for example, guaranteeing that operations either all succeed or all fail in complex business scenarios. It also provides data backup and recovery mechanisms to prevent data loss.

4.7 Message Service

Kingdee Apusic Application Server supports the Java Message Service (JMS), providing an asynchronous communication method that includes two message models: point - to - point and publish/subscribe. In the point - to - point model, message producers send messages to a specific queue, and a single consumer receives them. In the publish/subscribe model, message producers publish messages to a topic, and multiple consumers subscribed to this topic can receive them. It ensures the reliable delivery of messages, avoiding message loss, and supports functions such as persistent message storage and transaction processing, providing strong communication support for building complex distributed systems.

4.8 Mail Service

Kingdee Apusic Application Server supports JavaMail, enabling operations such as sending, receiving, storing, and managing emails. It supports the POP3, SMTP, and IMAP4 protocols and provides the ability to access mail sessions via JNDI. The mail service is used for personal communication and office collaboration. It facilitates communication and cooperation among employees within an enterprise and is also used for enterprise marketing and promotion.

4.9 Security Service

Kingdee Apusic Application Server has a dynamically extensible security architecture and supports authentication and authorization through JAAS (Java Authentication and Authorization Service). It provides functions for defining and managing security domains and supports various types of security domains, including JDBC security domains, file security domains, LDAP security domains, certificate security domains, and custom security domains. It supports transport - layer security protocols such as SSL and TLS. It supports national cryptographic algorithms. It supports the separation of three roles, namely the system administrator, the security and confidentiality administrator, and the security auditor. These three roles restrict and supervise each other to ensure the security and compliance of the information system. It supports the JACC (Java Authorization Contract for Containers) specification and allows the definition of JACC providers. It supports real - time security protection, promptly detecting application - layer security vulnerabilities and defending against attacks.

4.10 High - Availability Cluster

Kingdee Apusic Application Server supports high - availability cluster functions, offering features such as load balancing, failover, and session replication. These ensure uninterrupted service and effectively handle various unexpected situations. It provides elastic scaling capabilities, allowing the cluster size to be adjusted as needed to flexibly adapt to business changes.

4.11 Log Service

Kingdee Apusic Application Server supports server operation logs and service logs. Attributes such as log levels and log formats can be configured.

4.12 Transaction Service

Kingdee Apusic Application Server fully complies with the JTA (Java Transaction API) specification. It supports both local and distributed transactions, coordinating transaction operations among multiple resource managers (such as databases and message queues) to ensure their consistency and atomicity. It supports monitoring transaction information and performing rollback operations on running transactions.

4.13 Monitoring Service

Kingdee Apusic Application Server offers a rich set of monitoring functions. It monitors the running status of containers, components, or services within server instances, helping users promptly detect potential problems or anomalies and ensuring the normal and stable operation of the system. It monitors the session information of applications deployed in instances. It monitors the usage of various resources such as connection pools in instances. It supports graphical monitoring and monitoring playback. It supports monitoring the duration, cause, and detailed memory changes before and after each Full GC. It supports monitoring alerts and diverse alert methods, including JMS, email, snapshots, SNMP, and alert platforms.

5 Key Technical Features

5.1 Simple and Efficient Development and Deployment

Kingdee Apusic Application Server provides a wealth of development tools and APIs, enabling developers to easily implement various business logics. It can be seamlessly integrated with common basic development environments (IDEs) such as Eclipse or IntelliJ IDEA. Developers can conveniently create, develop, and debug applications and deploy them to the application server, enhancing development efficiency. It supports multiple deployment methods, including command - line - based deployment, Web - console - based deployment, and automatic deployment. It supports various application types, such as Web applications, enterprise applications, EBA applications, and connector modules. It provides resource configurations such as data source management and JMS resources, simplifying the application development and deployment process. It supports application class library management and enables uninterrupted upgrades of application versions.

5.2 Compatibility with Multiple Development Frameworks

Kingdee Apusic Application Server is compatible with a variety of popular development frameworks, such as Spring, Struts2, Hibernate, MyBatis, and Spring Boot, enabling it to handle the development of various enterprise - level applications. It has built - in components like JPA, JSF, CDI, RESTful, and Web Service, providing strong support for application development and deployment. It supports the configuration of class - loading strategies. When there are class - conflict issues between applications and the application server, the class - loading order can be set as needed.

5.3 Comprehensive Support for Microservice Development

Kingdee Apusic Application Server integrates a large number of high - quality microservice development templates and components, allowing developers to quickly build architectures and save initial development time. It has powerful automated deployment capabilities and can easily switch between multiple environments. It realizes unified configuration, centralized logging, unified caching, and unified monitoring and management.

5.4 Integrated Management and Control Platform

Kingdee Apusic Application Server provides a visual management and monitoring platform, facilitating administrators to perform various operations. It supports the three - role - separated management and control, with separated role permissions to ensure information security. Administrators can use the management and control platform to deploy and manage applications or components, create and manage resources, and configure JVM parameters. It supports visual patch management, including patch upgrades and rollbacks.

5.5 Efficient Collaborative Cluster Configuration

Kingdee Apusic Application Server offers high - availability cluster functions. It supports the one - click installation of multiple nodes through the management and control platform, and enables unified management and configuration of cluster node instances and cluster applications. It supports the one - click installation of load - balancing servers, such as ALB (Kingdee Apusic Load Balancer), Apache, and Nginx, and allows the configuration of load - balancer clusters to achieve high availability. It supports the configuration of distributed session caches for data storage and sharing.

5.6 Multi - Dimensional Monitoring Capabilities

Kingdee Apusic Application Server provides comprehensive monitoring and diagnostic capabilities, supporting the monitoring of applications, servers, and resources to obtain running - state information. It supports setting SQL - tracing events for SQL tracing. It offers graphical monitoring and monitoring playback functions. It can monitor busy threads, blocked threads, and extremely long - running threads during operation and allows manual termination of specified threads. It provides a snapshot function, generating snapshots based on dimensions such as threads, heap memory, JVM, GC, and logs. It offers monitoring and alerting functions for running threads, memory, CPU, Full GC, and database connection pools. Alert messages can be sent via email, JMS, etc., helping users promptly detect potential performance or security issues in the system. It supports connection to third - party link - tracing platforms to meet users' needs for custom monitoring tools.

5.7 Comprehensive Domestic Adaptation

Kingdee Apusic Application Server is fully compatible with domestic upstream and downstream products, enhancing the self - controllable ability of the industrial chain. It is compatible with domestic CPU architectures such as Huawei Kunpeng, Phytium, Loongson, and Shenwei; domestic operating systems such as NeoKylin, GalaxyKylin, Uniontech OS, Deepin, and Primware; and domestic databases such as Dameng, KingbaseES, Tongtech, GaussDB, and Nanda.

5.8 Highly Reliable and Secure Protection

The security of Kingdee Apusic Application Server encompasses multiple aspects, including identity authentication, access control, data security, vulnerability protection, security auditing, security configuration, and security isolation. Through a series of security mechanisms and technologies, it provides all - around protection for the stable operation of the system and the security of users' data. It supports a variety of self - owned security encryption algorithms, including the national cryptographic algorithms SM2, SM3, and SM4. At the same time, it ensures that users' passwords meet the specified quality standards, enhancing information security and guaranteeing the confidentiality, integrity, and non - repudiation of information during transmission and storage. It offers a real - time security protection module that provides accurate and comprehensive runtime security detection and defense for

application systems. It can effectively defend against common security attack threats, such as cross - site scripting attacks, SQL injection, command - line injection, file upload vulnerabilities, insecure deserialization, XML external entity injection, Struts class loader control, unsupported request methods, slow database operations, and JNDI injection. It provides a visual management and control platform that supports the statistics and viewing of defense situations, enabling quick analysis and location of security issues. It also supports configurable alarm reminders, allowing users to obtain security alarm information in a timely manner to ensure the safe and stable operation of applications.

6 Application Scenarios

6.1 Party and Government Office Applications

In Party and government departments, such as the National People's Congress, the National Committee of the Chinese People's Political Consultative Conference, and the General Office of the Central Committee of the Communist Party of China, Kingdee Apusic Application Server provides secure and reliable operation support for the important office systems and core application systems of these government clients. Kingdee Apusic has a rich portfolio of Party and government Xinchuang cases. There are more than 200 cases in local provinces and central ministries. For example, in the second - phase pilot projects of Xinchuang in multiple provinces such as Yunnan, Hunan, Heilongjiang, and the Tibet Autonomous Region, Kingdee Apusic provided middleware technology support and service guarantees. In the Xinchuang project, Kingdee Apusic, with its product technology and service advantages, served more than half of the pilot units. In the first - phase of Xinchuang, Kingdee Apusic completed four pilot projects. In the second - phase, it undertook more than 100 pilot projects, ultimately achieving a market share of 53% and becoming the main middleware provider for the Xinchuang pilot project.

6.2 Industry Xinchuang Applications

In key industries such as finance, telecommunications, and the military, Kingdee Apusic Application Server provides high - concurrency, high - performance, and highly reliable application service support for the critical business of Xinchuang clients in these industries. Taking the financial industry as an example, Kingdee Apusic has served hundreds of financial industry clients without any failed cases. Key clients include the People's Bank of China, the China Securities Regulatory Commission, Ping An Technology, Taiping Insurance, China Everbright Bank, the China Development Bank, the Bank of China, and the Export - Import Bank of China.

6.3 Group Enterprise Applications

In group - type enterprises, Kingdee Apusic Application Server provides intensive, high - performance, and highly available support for the complex business process management and control of these enterprises.

7 Editions

Kingdee Apusic Application Server is available in Enterprise Edition, Intelligent Security Edition, and Agile Edition to meet the diverse business - scenario needs of users. Kingdee Apusic Application Server supports restrictions on the IP range service, the number of threads, the valid time period, and the edition type of the license file. Meanwhile, it supports unified authorization and unified management of license files, adapting to the installation mode in cloud environments.

7.1 Enterprise Edition

This edition fully supports the Jakarta EE specifications and offers centralized management and control functions. It supports the configuration of server clusters to achieve load balancing and failover. It also supports the elastic scaling of cluster instances and intelligent routing, as well as multiple instance detection methods. It provides functions such as class - loading conflict detection tools, snapshot functions, and monitoring configuration. This edition is mainly targeted at large - scale distributed applications and application scenarios with high requirements for reliability and scalability, such as large - enterprise systems, e - government systems, and applications in the finance, transportation, energy, and telecommunications industries.

7.2 Intelligent Security Edition

Based on the Enterprise Edition, this edition adds an intelligent security module, providing accurate and comprehensive security detection and defense for enterprise applications. It precisely analyzes users' input behaviors within applications, differentiates between legitimate behaviors and attack behaviors based on the analysis results, and implements efficient defenses. It plays a crucial role in enterprise security scenarios where traditional firewalls focusing on boundary defense are ineffective. It can effectively defend against common security issues listed in OWASP, protect the running security of application systems, and enhance the data security of application systems. This edition can be used when more advanced application - security defense capabilities are required.

7.3 Agile Edition

This is a web application server that supports Java EE specifications. It has a fast startup speed, is lightweight and simple, and can quickly deploy and run applications in resource - constrained environments. It supports the rapid development of microservices. This edition is targeted at the Web application market and scenarios on container clouds that require minimal resource occupation and rapid startup.

8 Operating Environment

Kingdee Apusic Application Server offers extensive support for diverse operating environments to ensure seamless operation across various scenarios.

CATEGORY	NAME
Operating System	Linux: RedHat series Suse Linux series GalaxyKylin Operating System NeoKylin Operating System Unity Operating System Deepin Operating System iSoft Server OS ...
	Unix: HP-Unix series IBM AIX series Solaris series ...
	Windows: Windows 7/8/10/2003/2008/2012...
Databases	Compatible with various databases: Oracle MySQL Microsoft SQL Server IBM DB2 Derby Informix Dameng Database KingbaseES Database Huawei GaussDB Tongtech Database Nanda GBase Database Highgo Database AntDB ...

Severs	Supports various domestic servers: Phytium Loongson TaiShan Kunpeng Shenwei CAS Computing Yingzheng Zhaoxin H3C ...
Java Environment	Oracle JDK1.8+ Open JDK1.8+ IBM JDK 1.8+ Apusic JDK8+
Browsers	Supports various mainstream browsers: Internet Explorer 9 and above Chrome Firefox 360 Browser Honglianhua Browser ...

9 Specification List

It fully complies with the Java EE specifications and supports Jakarta EE 8/9/9.1/10. The following table shows the Jakarta EE 8 technical specification table.

JakartaEE8技术规范表	
Web Application Technologies	Java API for WebSocket 1.1
	Java API for JSON Binding 1.0
	Java API for JSON Processing 1.1
	Java Servlet 4.0
	JavaServer Faces 2.3
	Expression Language 3.0
	JavaServer Pages 2.3
	JSTL 1.2
Web Services Technologies	Java API for RESTful Web Services(JAX-RS) 2.1
	Implementing Enterprise Web Services 1.3
	Web Services Metadata for the Java Platform 2.1
	Java API for XML-Based RPC(JAX-RPC) 1.1
	Java API for XML Registries(JAXR) 1.0
Enterprise Application Technologies	Batch Applications for the Java Platform 1.0
	Concurrency Utilities for Java EE 1.0
	Contexts and Dependency Injection for Java 2.0
	Dependency Injection for Java 1.0
	Bean Validation 2.0
	Enterprise JavaBeans 3.2
	Interceptors 1.2
	Java EE Connector Architecture 1.7

	Java Persistence 2.2
	Common Annotations for the Java Platform 1.3
	Java Message Service API 2.0
	Java Transaction API 1.2
	JavaMail 1.6
Management and Security Technologies	Java EE Security API 1.0
	JASPIC 1.1
	Java Authorization Contract for Containers 1.5
	Java EE Application Deployment 1.2
	J2EE Management 1.1
	Debugging Support for Other Languages 1.0
Java EE-related Specs in Java SE	Java Management Extensions 2.0
	SOAP with Attachments API for Java 1.3
	Streaming API for XML 1.0
	Java API for XML Processing 1.6
	Java Database Connectivity 4.0
	Java Architecture for XML Binding 2.2
	Java API for XML-Based Web Services 2.2
	JavaBeans Activation Framework 1.1

10 Summary

As an advanced Java EE application server, Kingdee Apusic Application Server provides solid and reliable technical support for enterprises in the current digital wave, thanks to its powerful functions, flexible architecture, and wide applicability. Whether dealing with complex and ever - changing business requirements or keeping up with the latest technological development trends, Kingdee Apusic Application Server can help enterprises reduce development costs, improve operation and maintenance efficiency, and achieve continuous business innovation and growth. It is an ideal choice for enterprises to build modern and high - performance application systems.

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金蝶天燕云计算股份有限公司(简称“金蝶天燕云”)成立于2000年，前身为“金蝶中间件公司”，是金蝶集团旗下新一代软件基础云平台服务商，云计算国家标准制定企业，国家信创产业核心软件企业。金蝶天燕是国家863重点研发计划与核高基重大专项承接企业，也是“两网一站四库十二金”国家重点工程的基础平台提供商，产品广泛应用于政府、军工、金融、能源等关键行业，累计服务客户总数超过10万家。

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