



APUSIC  
固若长城  
睿比世界

# Overview

Apusic Application Server V10

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# 目录

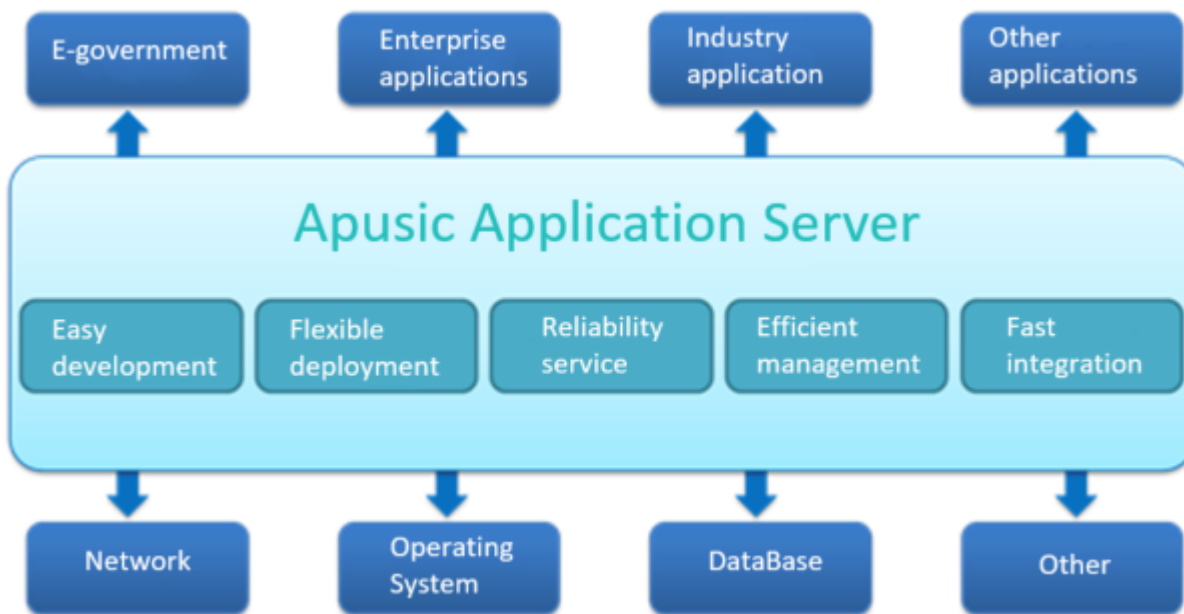
- 1 Product Overview
- 2 Product Function
- 3 Product Architecture
- 4 Application Scenarios
- 5 Advantage
  - 5.1 High performance
  - 5.2 Comprehensive adaptation to domestic upstream and downstream ecosystems enhances the self-reliance and control capabilities of the industrial chain.
  - 5.3 Support multiple chips, operating systems, databases, open source frameworks, JDKS
  - 5.4 Market Recognition:
  - 5.5 Service Advantages:
- 6 Customers and Cases:

# 1 Product Overview

Apusic Application Server(AAS) is the flagship middleware product of Java EE application server, persistently and independently innovated by Apusic, through ten years of dedicated research and development. It stands as a leader and symbol of excellence among domestic middleware products with independent intellectual property rights:

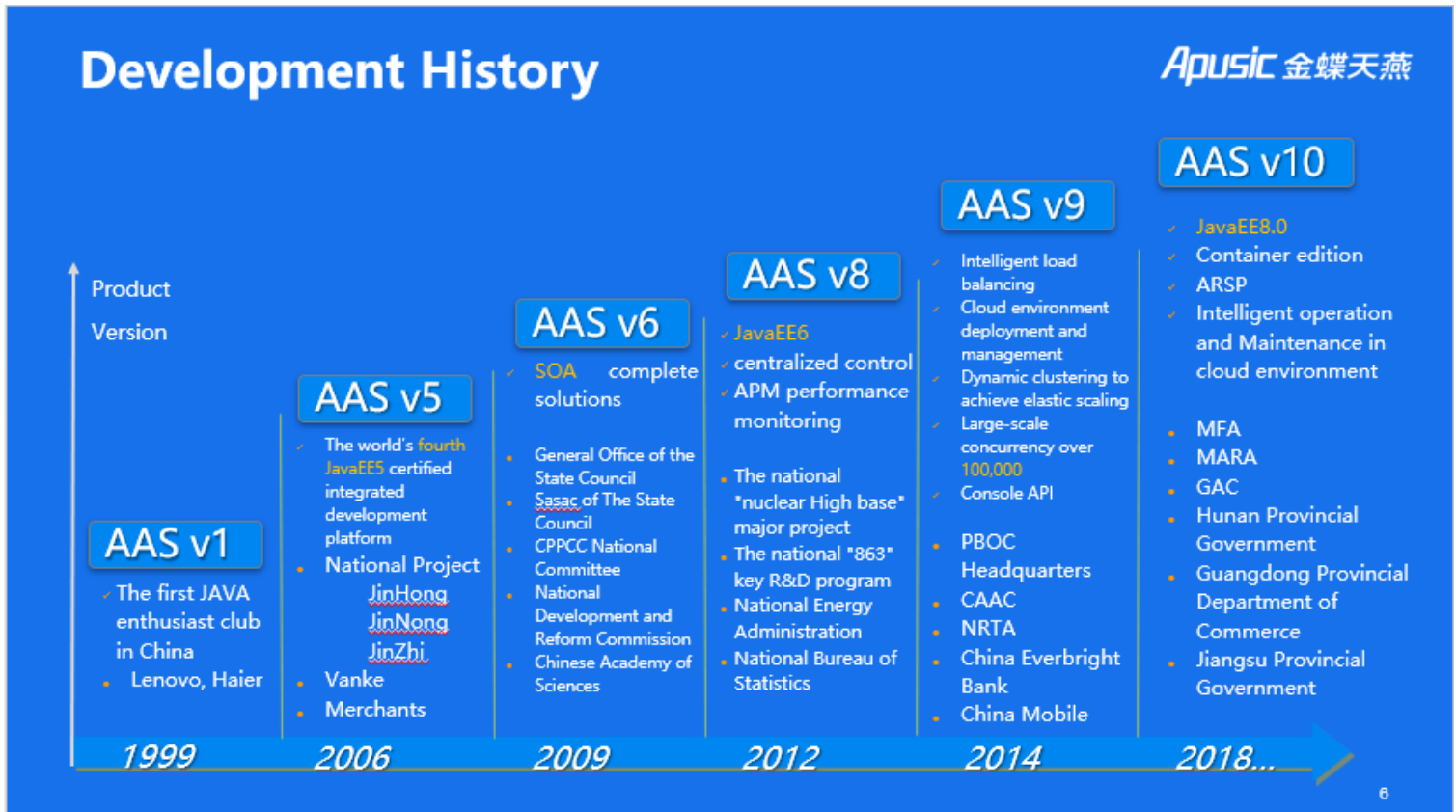
- The first JavaEE application server middleware with independent intellectual property rights in China;
- The first JavaEE application server middleware that through J2EE international certification in China;
- The first in China and the fourth globally to be JavaEE 5 certified for Java EE application server middleware;
- The second JavaEE application server middleware that through JakartaEE8 certification in China;

Apusic Application Server is a standard, secure, efficient, integrated, and feature-rich enterprise-level application server that fully supports the JakartaEE 8 technical specifications. It provides a Web container, EJB container, and WebService container compliant with these specifications, along with support for the latest technology standards such as WebSocket 1.1, Servlet 4.0, and HTTP/2.0. As a reliable foundation platform for enterprise applications, it offers critical support for convenient development, flexible deployment, reliable operation, efficient management, and rapid integration of enterprise-level applications.



Development of the Kingdee Apusic Application Server started with the first line of code in 1999, written based on Java and following the JavaEE specification. From J2EE 1.3 up to J2EE 8, it has gone through ten major versions and over more than a decade. Since December 2006, the Apusic Application Server has achieved full compatibility with the standard specifications, leading its major international competitors and being recognized as a model of "International Standards, Chinese Ingenuity." AAS has consistently followed the JavaEE standard in product

implementation, making it the longest-standing and most thorough understanding of the specifications and technologies among domestic JavaEE application server vendors in China.



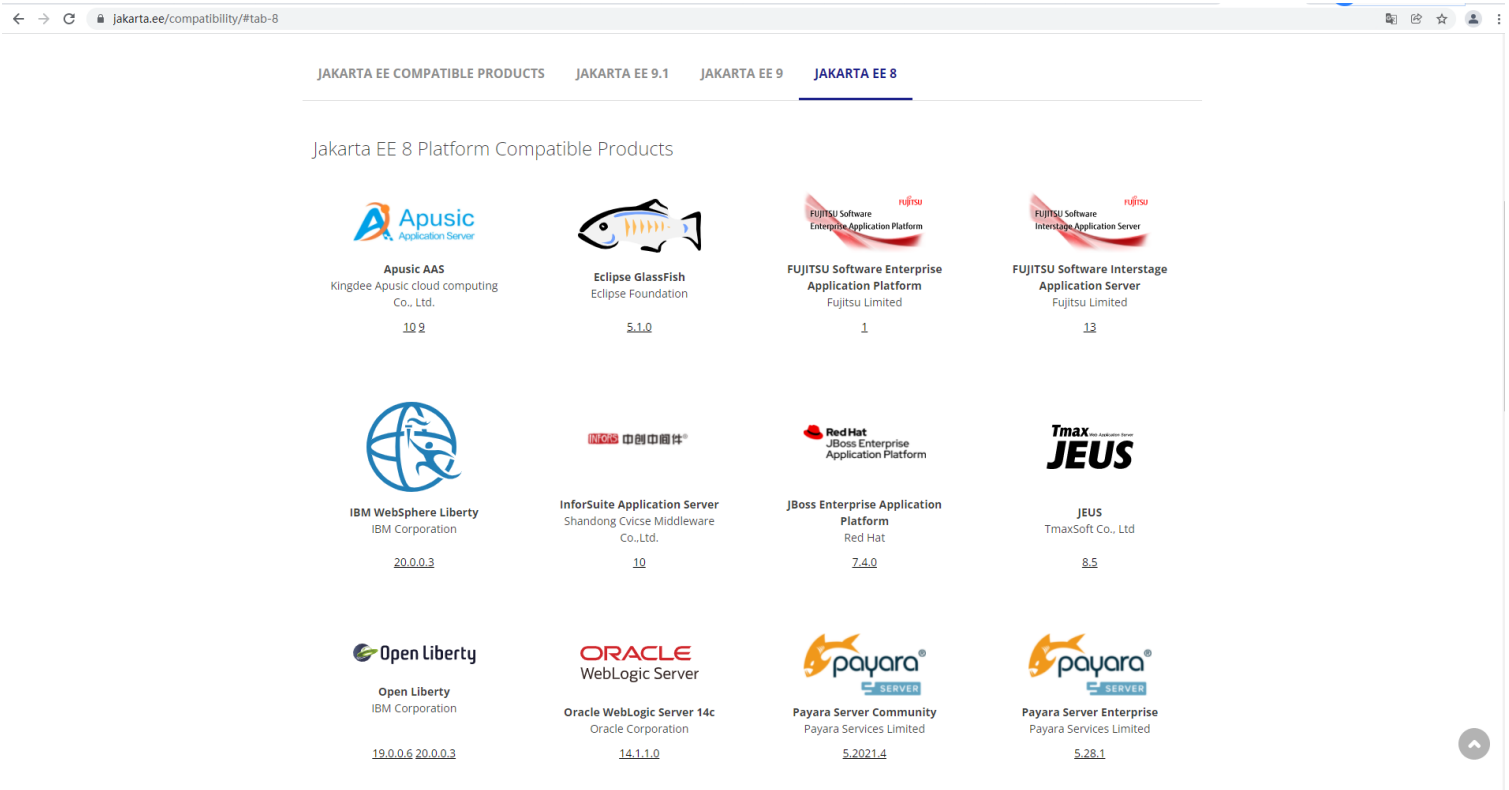
## 2 Product Function

Apusic Application Server implements the full set of JakartaEE 8 (JavaEE 8) technology specifications:

JakartaEE8 Technical Specification Sheet	
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

Achieved certification for JavaEE 8 / JakartaEE 9 / JakartaEE 9.1:



In addition to standard functions (support for specifications), AAS-V10 supports a number of extensible functions:

### Apusic Application Server V10 Feature list

Apusic Manager	Domain Management	Domain Attribute Configuration
		Application Configuration
		Administrator Command Configuration
		Command Alias Configuration
		Domain Log Viewing
		Configuration Backup
		Snapshot Generation
		Class Conflict Detection
	Server Management	General Information Checking
		Resource Configuration
Attribute Configuration		
Monitoring Data		

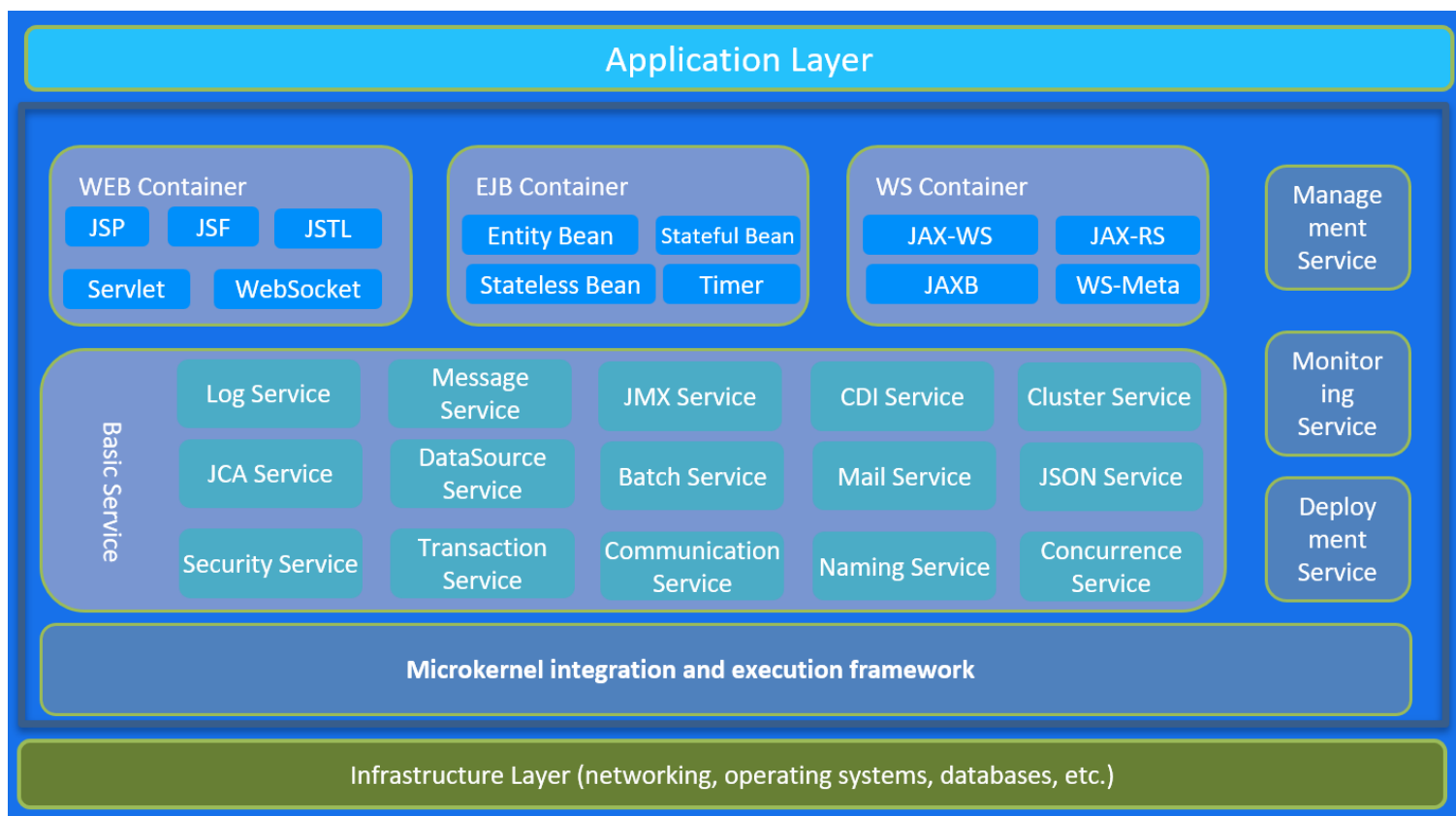
	Batch Processing Configuration
	Certificate Management
Node	Node Management
Independent Instance	Independent Instance Management
Cluster	Cluster Management
Load Balance	Load Balance Management
Application	Application Management
LifeCycle Module	LifeCycle Moudle Management
Monitoring Data	Monitoring Data Management
Transaction	Transaction Management
Resource	DataSource Management
Configuration	Connector Configuration
	Shared Library Configuration
	Resource Adapter Configuration
	JMS Resource Configuration
	JavaMail Session Configuration
	JNDI Configuration
	Concurrency Resource Configuration
	Management Service Configuration
	Connector Service Configuration
	EJB Container Configuration
	HTTP Service Configuration
	JVM Settings
	Java Message Service Configuration
	Logger Settings
	Monitoring Configuration

		Network Configuration
		ORB Configuration
		Security Configuration
		System Property Configuration
		Thread Pool Configuration
		Transaction Service Configuration
		Virtual Server Configuration
		Web Container Configuration
High Availability	Support for Apache Server Management	
	Support for Nginx Server Management	
	Support for Session Failure Recovery	
	Web Clustering	
	EJB Clustering	
	JNDI Clustering	
	Built-in Failover Restart Feature	
	Built-in Elastic Scaling Feature	
	Built-in Centralized Cluster Management	
Security	Three-role Separation Management Console	
	Real-time Security Protection Module Support	
	Support for Dual-factor Authentication Login Control System	

	Support for Configuration Backup Management	
	Sensitive Configuration Item Encryption	
	National Commercial Cryptographic Algorithms SM2, SM3, SM4	

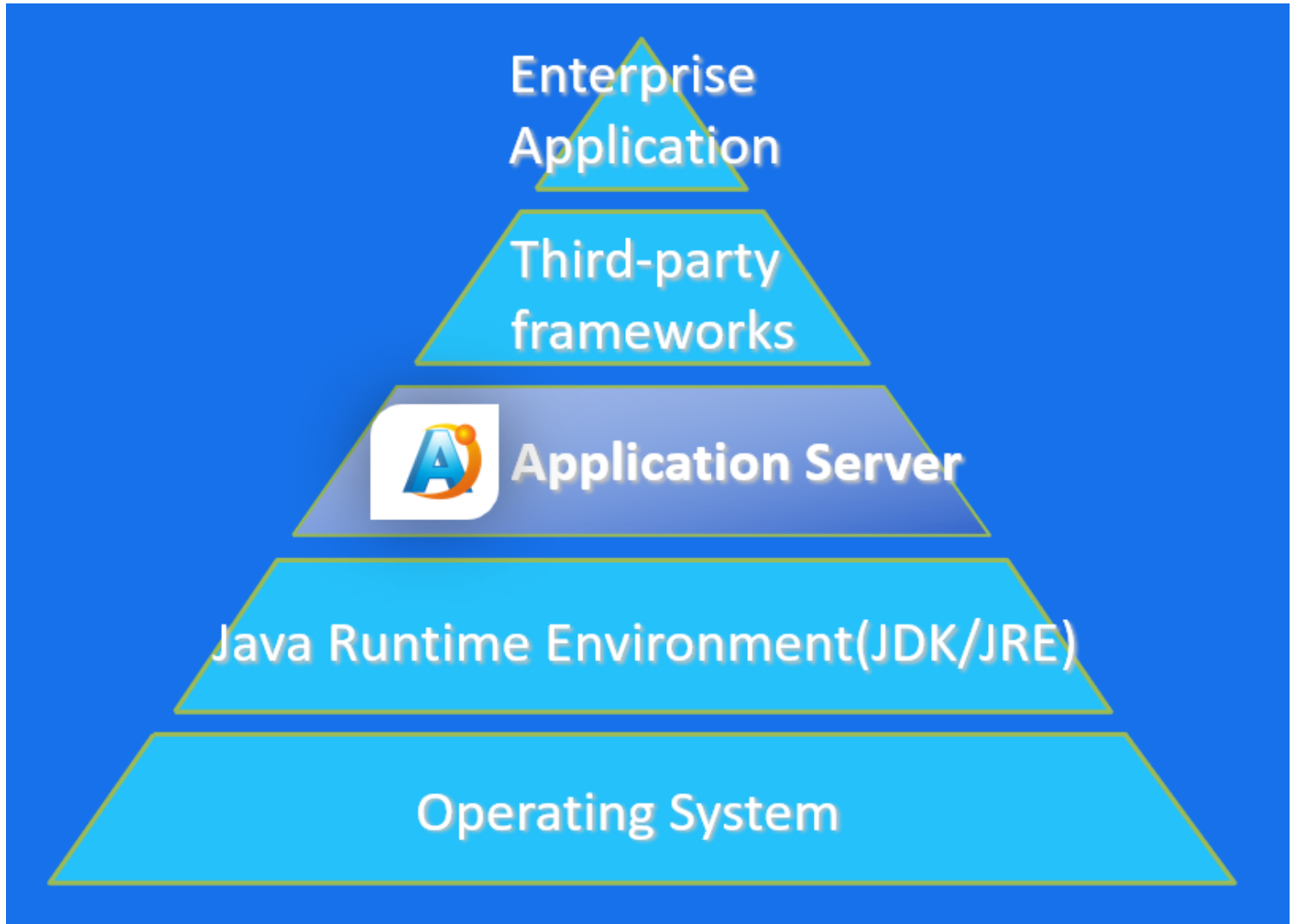
### 3 Product Architecture

Apusic Application Server draws inspiration from operating system design, and introduces a micro-kernel architecture into the product implementation. As the functionality of application servers becomes increasingly complex and extensive, adopting a microkernel approach becomes an inevitable trend. Through this microkernel framework, the complexity of internal interfaces within the application server can be reduced, leading to a more robust software structure and providing more stable and efficient runtime performance. The Apusic Application Server is built upon Open Service Gateway Initiative (OSGi), ensuring that the core of the product remains stable and efficient while maintaining excellent extensibility.



## 4 Application Scenarios

The business applications based on Java enterprise technology all need application server.



## 5 Advantage

### 5.1 High performance

- AASv10.0 + GDF 1 million online users
- AASv9.0 + EAS + HUAWEL 200,000 online users
- AASv9.0 + EAS 100,000 online users

### 5.2 Comprehensive adaptation to domestic upstream and downstream ecosystems enhances the self-reliance and control capabilities of the industrial chain.

- Domestic Chips: Kunpeng, Loongson, Sunway, Phytium, Hygon, Hisilicon
- Domestic Servers: Inspur, Great Wall, Dawning, Taishan, 706
- Application Systems: Tajji, Inspur, Cisoft, Huadi, Huayu, Donghua, Tsinghua Unigroup
- Domestic Operating Systems: NeoKylin, Kylin, Deepin, KylinOS, FydeOS, PuHua
- Domestic Databases: DM Database, KingbaseES, GBase, HanDB, GaussDB
- Business Software: Electronic Official Documents, Email Systems, Portal Systems, Electronic Seals and Signatures, Flow and Layout Systems

### 5.3 Support multiple chips, operating systems, databases, open source frameworks, JDKS

- Chips: Kunpeng, Loongson, Sunway, Phytium, Hygon, Hisilicon
- Operating Systems: NeoKylin, Kylin, Deepin, KylinOS, FydeOS, PuHua, Linux
- Databases: Oracle Database, MySQL, SQL Server(Microsoft SQL Server), PostgreSQL, DB2(IBM DB2), DM Database, KingbaseES, GBase, HanDB, GaussDB
- Open Source Frameworks: Struts(Apache Struts), Spring(Spring Framework), Hibernate
- JDK: OpenJDK, Oracle JDK, AdoptJDK

### 5.4 Market Recognition:

- The application server product has been awarded first place in customer satisfaction for multiple consecutive years.
- The domestic middleware product has the widest range of industry applications and the highest number of deployments.
- AAS ranks first in the number of users among central government ministries and commissions.
- AAS ranks first in the number of users among local government agencies.

- AAS ranks first in the number of users among top 500 enterprises.

## **5.5 Service Advantages:**

- 4 major regions across the country.
- 50 branch offices.
- Service support teams in over 200 cities and regions.
- Diverse Service Methods: Hotline telephone support, online customer service, threaded support, email, technical community, knowledge center, and regional centers.

## 6 Customers and Cases:

Over 10,000 customers and more than 200 partners.

- \*\*Local Government:** Beijing Municipal Committee of the CPC (Beijing Municipal Party Committee), Beijing Municipal Government, Beijing Political and Legal Affairs Commission, Beijing Civil Affairs Bureau, Beijing Municipal Organization Department, Beijing Municipal Work Safety Supervision Bureau, Beijing Municipal Traffic Law Enforcement Team, Beijing Municipal Tourism Commission, Beijing Women's Federation, Beijing Water Authority, Shanghai Municipal Government, Shanghai Municipal Organization Department, Shanghai Civil Affairs Bureau, Shanghai Municipal Commission of Economy and Informatization, Shanghai Municipal Archives, Shanghai Municipal Price Supervision and Management Bureau, Shanghai Overseas Chinese Affairs Office, Shanghai Recruitment Office, Guangdong Provincial Discipline Inspection Commission, Guangdong Provincial Public Security Department, Guangdong Provincial Supervisory Commission, Guangdong Provincial Civil Affairs Department, Guangdong Provincial Market Supervision Administration, Guangdong Provincial Department of Transportation, Guangdong Provincial Department of Economy and Information Technology, Shenzhen Municipal Government, Shenzhen State-Owned Assets Supervision and Administration Commission, Shenzhen Taxation Bureau, Shenzhen Municipal Supervisory Commission, Shenzhen Municipal Archives Bureau, Jiangsu Maritime Safety Administration, Heilongjiang Provincial Government, Jilin Provincial Organization Department, Liaoning Provincial Government, Shaanxi Provincial Committee, Shaanxi Provincial Audit Department, Gansu Provincial Government, Xinjiang Uygur Autonomous Region Government, Inner Mongolia Autonomous Region Government, Hubei Provincial Government, Hebei Provincial Government, Hunan Provincial Government, Henan Provincial Government, Guizhou Provincial Organization Department, Sichuan Provincial Government, Yunnan Provincial Government, Shenzhen Municipal Government, Guangzhou Municipal Government, Nanning Municipal Government, Suzhou Industrial Park, Hainan Provincial Government, Xinjiang Production and Construction Corps...
- \*\*High-end Industry:** China Aerospace Science and Industry Corporation (CASIC), China Aerospace Information Co., Ltd., AVIC (Aerospace Industry Corporation of China), China South Industries Group Corporation (CSGC), Nanjing Military Region, Naval University of Engineering, Beijing Aerospace Intelligent Manufacturing Co., Ltd., Xi'an National Civil Aerospace Industry Base, China Academy of Engineering Physics, Beijing Institute of Satellite Environmental Engineering, Shenyang Aircraft Design Institute, Institute of Information Engineering, Chinese Academy of Sciences, General Logistics Department, General Staff Department, People's Liberation Army Unit 63820, People's Liberation Army Unit 73801, People's Bank of China, China Construction Bank, City Commercial Banks, China Everbright Bank, China Export-Import Bank, China Huaxia Bank, China Merchants Securities, Sunshine Insurance, China Pacific Insurance, Zhongyuan Securities, Cinda Asset Management Co., Ltd., China Unicom System Integration Co., Ltd., China Telecom System Integration Co., Ltd., China Unicom Guangzhou Branch, China Telecom (Guangdong, Liaoning, Hunan, Hubei), China Mobile (Guizhou, Sichuan, Hebei, Shenzhen), Beijing Guodian Tongxin Technology

- Co., Ltd., Hunan Zhongyan Tobacco Industry Co., Ltd., Yueyang Tobacco Company, Changde Tobacco Company, Chenzhou Tobacco Company, Hengyang Tobacco Company, Shaoyang Tobacco Company...
- **\*\*Conglomerate: \*\***China Railway Construction Corporation Limited (CRCC), AVIC (Aerospace Industry Corporation of China), China Shipbuilding Industry Corporation (CSIC), CRRC Corporation Limited (China Railway Rolling Stock Corporation), COFCO Group (China National Cereals, Oils and Foodstuffs Corporation), China National Tourism Group Corporation, China Electronics Import & Export Corporation, China National Petroleum Corporation (CNPC), China National Offshore Oil Corporation (CNOOC), China National Machinery Industry Corporation (Sinomach), China United Cement Corporation, China National Aviation Supplies Holding Company Limited, Ministry of Metallurgical Geology, China Minmetals Corporation, China Coal Energy Group, State Grid Corporation of China, China Huadian Corporation, Xian Electric Engineering Company Limited (XEC), Shenhua Group Corporation Limited, Guangdong Power Grid Corporation, Tonghua Mining Group, Sichuan Coal Industry Group, Tonghua Iron & Steel Group, Capital Airport Holdings Company Limited, China Eastern Airlines Corporation Limited, Shanghai Airlines, Shenzhen Airlines, Beijing Public Transport Group, Shanghai Pudong Public Transport Company Limited, Chongqing Rail Transit (Group) Co., Ltd., Guangdong Shipping Group, Wenzhou Port Group, Dalian Port Group, Guangzhou Port Group, Haier Group Corporation, China Merchants Group, China Vanke Co., Ltd., Lingnan Group, New Hope Group, ENN Group, Rongcheng Steel, Bright Food (Group) Co., Ltd., Fangda Group, Anhui Farming and Reclamation Group, Beidahuang Grain Group, Northern International Steel Electronic Trading Center, Wens Food Group, Guangdong Salt Industry Group, Nissan (China) Investment Co., Ltd., Emerging International & Huaxia Group...
  - **\*\*The Central Ministries: \*\***Office of the Central Committee of the CPC (Central Committee Office), Cryptographic Bureau of the Central Committee of the CPC, Organizational Department of the Central Committee of the CPC (Central Organization Department), Central Commission for Discipline Inspection (CCDI), International Liaison Department of the CPC Central Committee, National Committee of the Chinese People's Political Consultative Conference (CPPCC), Standing Committee of the National People's Congress, National Supervisory Commission, Supreme People's Court, Supreme People's Procuratorate, United Front Work Department of the CPC Central Committee, State Council Leading Group Office of Poverty Alleviation and Development (now known as the National Rural Revitalization Administration), State Council Overseas Chinese Affairs Office, Communist Party of China Central Committee and State Council Organs Work Committee, National Development and Reform Commission (NDRC), Ministry of Foreign Affairs, Ministry of Science and Technology, Ministry of Human Resources and Social Security, Ministry of Ecology and Environment, Ministry of Natural Resources, Ministry of Transport, Ministry of Emergency Management, Ministry of Agriculture and Rural Affairs, Ministry of Education, Ministry of Industry and Information Technology, Ministry of Finance, Ministry of Civil Affairs, Ministry of Water Resources, Ministry of Housing and Urban-Rural Development, National Audit Office, People's Bank of China, General Administration of Customs, National Radio and Television Administration, State Administration for Market Regulation, National Bureau of Statistics, State-owned Assets Supervision and Administration Commission of the State Council (SASAC), Chinese Academy of Sciences, China

Meteorological Administration, National Energy Administration, China Geological Survey, State Bureau of Letters and Calls, National Archives Administration, State Secrecy Bureau, National Food and Strategic Reserves Administration, Civil Aviation Administration of China (CAAC), National Intellectual Property Administration, National Administration of Traditional Chinese Medicine, National Disaster Reduction Committee, China National Institute of Standardization (China Item Code Center), China Copyright Protection Center, China Scholarship Council, China Institute of Certified Public Accountants...

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