



Transformation Strategies of Enterprise Audit Work in the Context of Digitalization

Dongmei Xing

Hainan Vocational University of Science and Technology, Haikou 571126, Hainan, China

Abstract: The advent of the digital era is profoundly changing the form and connotation of enterprise audit work. The transformation of enterprise audit is of great significance for improving audit efficiency and preventing operational risks. This paper takes the digital transformation of enterprise audit as a starting point and analyzes the challenges faced by enterprise audit work under the current digital background. On this basis, transformation strategies such as strengthening the construction of intelligent audit platforms, improving talent training mechanisms, building data governance systems, and optimizing audit process standards are proposed. The aim is to provide theoretical guidance and practical reference for enterprises to promote the digital transformation of audit, helping them achieve high-quality development in the digital economy era.

Keywords: enterprise audit; digital transformation; intelligent audit; data governance

1. Introduction

Enterprise audit work is a key part of enterprise operation management and risk control. Through systematic inspection, evaluation, and supervision, it ensures the compliance, authenticity, and effectiveness of enterprise business activities. Currently, the rapid development of digital technologies such as big data, artificial intelligence, and cloud computing is reshaping enterprise business models. Traditional audit methods can no longer meet the processing demands of massive data and the audit needs of complex business scenarios in the digital environment. Enterprises urgently need to change audit concepts, innovate audit methods, and rely on digital means to improve audit efficiency. Discussing the transformation strategies of enterprise audit work in the context of digitalization is of great significance for helping enterprises build a modern audit system, enhance risk prevention and control capabilities, and promote sustainable and healthy enterprise development.

2. The Necessity of Enterprise Audit Transformation in the Digital Era

The transformation of enterprise audit in the digital era is an inevitable requirement of technological progress and business development. The traditional audit model mainly relies on manual operations and sampling checks, which has obvious limitations in terms of efficiency, accuracy, and coverage. As enterprise business scenarios become increasingly complex and transaction data shows an exponential growth trend, traditional audit methods can no longer meet the enterprise's needs for real-time monitoring, risk warning, and decision support. Digital audit, by utilizing technologies such as big data analysis and artificial intelligence, can achieve comprehensive monitoring and in-depth analysis of enterprise business activities, providing more accurate risk identification and decision-making suggestions.

3. Challenges Faced by Enterprise Audit Work in the Digital Context

3.1 Inadequate Information System Construction

At present, the audit systems of most enterprises still remain at the level of basic data storage and simple query functions, lacking advanced functional modules such as intelligent analysis and risk warning. Data silos commonly exist between systems; financial systems, business systems, management systems, etc., are separated from each other, leading to difficulties in data integration and an inability to realize data value[1]. The technical architecture of the systems is relatively outdated, making it difficult to meet the needs of large-scale data processing and complex business scenarios. There are deficiencies in real-time data collection, automated processing, intelligent analysis, and other aspects. Some enterprises, due to budget constraints, invest less in system updates and upgrades, resulting in backward system performance and outdated functions that struggle to meet the requirements of digital audit.

3.2 Insufficient Reserve of Professional Talent

Enterprises currently generally face a shortage of composite audit talent. Traditional auditors possess solid audit expertise

but are clearly deficient in abilities such as data analysis and information technology application, making it difficult for them to adapt to the needs of digital audit work. As digital audit covers emerging technology fields such as data mining, statistical modeling, and machine learning, enterprises find it hard to recruit professionals who are both proficient in audit business and familiar with digital technology. The existing audit team shows low enthusiasm for learning new technologies, and the speed of knowledge update lags behind technological development. The talent training cycle is long and costly, coupled with fierce competition in the talent market, making it difficult for enterprises to establish a stable digital audit talent team.

3.3 Existence of Data Security Risks

Enterprise audit data involves business secrets and sensitive information. There are risks of leakage in the links of data collection, transmission, storage, and use. Imperfect data encryption and access control mechanisms may lead to unauthorized personnel accessing core data. Insufficient system security protection capabilities pose hidden dangers of hacker attacks and virus intrusions, potentially causing data damage or loss. Inadequate data backup and disaster recovery plans make it difficult to cope with threats to data security from unexpected events. Chaotic permission management during cross-departmental data sharing increases the risk of data leakage. The use of third-party services such as cloud platforms also brings challenges related to data sovereignty and privacy protection. These security risks seriously affect the effective conduct of enterprise audit work.

4. Practical Paths for the Digital Transformation of Enterprise Audit

4.1 Strengthen Information System Construction and Build an Intelligent Audit Platform

Enterprises should actively promote the upgrade and transformation of audit information systems, building an intelligent audit platform that integrates advanced technologies such as big data and artificial intelligence. In terms of system architecture design, microservices architecture and distributed storage technology can be used to enhance the system's scalability and data processing capabilities. By establishing a unified data middle platform, data interfaces between various systems such as finance, business, and management can be connected, achieving automatic data collection and deep integration. In terms of functional module configuration, focus on developing intelligent analysis engines, integrating machine learning algorithms into the audit process, and providing intelligent functions such as abnormal transaction identification, risk warning, and fraud detection. Simultaneously, supporting visualization analysis tools should be built to provide support for auditors in multi-dimensional data analysis and dynamic monitoring[2]. The platform should also have comprehensive system interfaces supporting seamless connection with other management systems, forming a collaborative and efficient information management system, and comprehensively enhancing the digital level of enterprise audit work.

4.2 Strengthen Professional Talent Training and Enhance Digital Practice Capabilities

Enterprises should establish and improve a digital audit talent training system and build a composite talent team through multiple channels. By conducting thematic training on data analysis, information technology, etc., enhance the digital capabilities of existing auditors. Actively introduce external expert resources, organize technical seminars and experience sharing activities to broaden the knowledge horizon of the audit team. Cooperation mechanisms for talent training can be established with universities and research institutions to cultivate digital audit professionals directionally. Establish mentorship and job rotation systems to promote knowledge complementarity among personnel with different professional backgrounds such as audit and IT, thereby enhancing capabilities. Simultaneously, improve incentive mechanisms, set up special reward funds, and encourage auditors to participate in digital project practice and innovation. Build career development channels, provide promotion space for outstanding talents, and improve the stability of the talent team[3].

4.3 Improve the Data Governance System and Strengthen Security Protection Management

Enterprises should build a comprehensive data security governance system to effectively ensure the security of audit data. It is necessary to formulate data classification and grading standards, clarifying the security protection requirements for different types of data. Establish strict data access permission management mechanisms, implement role-based access control, and ensure the traceability of data use. Deploy advanced security protection technologies, using various protective means such as data encryption, firewalls, and intrusion detection to build a security defense line. Design complete data backup and disaster recovery plans, regularly conduct data backup and recovery drills to enhance system reliability. When using cloud services, choose secure and reliable service providers and sign strict data protection agreements. Establish a data security incident emergency response mechanism, formulate detailed disposal plans, and improve the ability to respond to unexpected events.

5. Conclusion

The digital transformation of corporate auditing is an inevitable choice to keep pace with the times and enhance corporate governance. Enterprises should leverage digital technologies as the driving force, and through a series of systematic measures such as improving information system construction, strengthening talent development, and establishing a robust data governance framework, promote comprehensive transformation and upgrading of auditing practices. This will help companies build a more efficient, precise, and secure modern auditing system, strengthen risk management capabilities, and provide robust support for high-quality sustainable development in the digital economy era.

References

- [1] Liu Xiaofei. Research on the Transformation Strategy of Enterprise Audit Work in the Context of Digitalization[J]. China Electronic Commerce, 2025, 31(09): 49-51.
- [2] Peng Shuyan. Research on the Transformation Strategy of Enterprise Audit Work in the Context of Digitalization[J]. Auditing and Finance, 2024, (08): 28-29.
- [3] Zhang Lijun. New Risks and Countermeasures of Audit Work in the Context of Enterprise Digital Transformation[J]. Chinese Agricultural Accounting, 2024, 34(12): 81-83.