Retraction

Retraction: Research on the Construction of Enterprise Integrated Comprehensive Information Platform under the Background of Big Data (J. Phys.: Conf. Ser. 1744 032179)

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This article has been retracted by IOP Publishing following an allegation that raises concerns this article may have been created, manipulated, and/or sold by a commercial entity. In addition, IOP Publishing has seen no evidence that reliable peer review was conducted on this article, despite the clear standards expected of and communicated to conference organisers.

The authors of the article have been given opportunity to present evidence that they were the original and genuine creators of the work, however at the time of publication of this notice, IOP Publishing has not received any response. IOP Publishing has analysed the article and agrees there are enough indicators to cause serious doubts over the legitimacy of the work and agree this article should be retracted. The authors are encouraged to contact IOP Publishing Limited if they have any comments on this retraction.

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Research on the Construction of Enterprise Integrated Comprehensive Information Platform under the Background of Big Data

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Abstract. Indeed, the advancement of big data technology has greatly improved the efficiency of internal operations and related management in some companies. However, in the process of advancing enterprise management reform, many problems have also appeared one after another. The isolated islands of departmental information are gradually showing a bottleneck effect. The emergence of this phenomenon urgently requires enterprises to carry out integrated mergers and the construction of information platforms\textsuperscript{[1]}. It can be explained that the application of big data has indeed promoted some reforms in the modern enterprise information management system. It can be seen as the beginning of the integrated construction of enterprises, or as a challenge that enterprises are about to face. From another level, the integrated construction of enterprises can only be achieved based on the background of big data. It is also a path for the development of an enterprise that crosses the layers of the times.

Keywords: Big Data, Enterprise, Integrated Platform

1. Introduction

Broadly speaking, the information management mechanism of domestic enterprises has experienced an expansion path from general business to professional business. Simply put, it is the gradual transformation from the grassroots level to the management level or the transformation from a single information technology application department to a business capability management information department. All these changes are inseparable from the support of the enterprise's information platform. However, because an enterprise has many departments, the bottleneck effect of information islands within the department is very serious. The information of each department can only be digested within the department. Unable to achieve the integration and integration of information within the enterprise. Even some departments are unable to obtain general information from other departments through the approval of their superiors. This will greatly reduce the efficiency of the internal management of the enterprise.

Although many people prefer the sharing strategy of information islands, it is also a relatively one-sided process of enterprise development\textsuperscript{[3]}. These powerful information resources can support business management and security management of information sharing. However, it cannot form a
prominent problem of enterprise-level technical support and resource optimization. This phenomenon will greatly limit the internal management mechanism of the enterprise and the future development of the enterprise. It can be seen that the establishment of an integrated and comprehensive information platform for enterprises is very necessary. There is no doubt that the coordinated combination of information within the enterprise and the analysis of related basis information are also based on the information platform.

2. Principles for the establishment of an enterprise integrated information integration platform based on big data

2.1. The integrity of the information must be required
If after the establishment of an integrated information platform, a lot of individual information cannot be integrated. Then the establishment of such a platform will be meaningless. It is no different from the formation of information islands. Therefore, companies must require the overall presentation of internal information. The research and construction of data centers must be taken as the core mechanism to fully realize the functional effects of the integrated platform of the enterprise (see Fig 1).

![Figure 1. Use of Enterprise Integrated Information Platform](image)

2.2. Information security management must be required
Corporate information is part of the corporate wealth. If the security of information cannot be guaranteed, then the core technology of the enterprise and its internal management data system will be paralyzed. Therefore, the integrated platform must provide a reliable and unified security authentication mechanism for new and old application systems. It is not only necessary to ensure the clarity of the information query interface when users visit, but also to prohibit access by illegal users.

2.3. The openness and effectiveness of the platform must be required
The principle of openness means that the range of people who can use the platform cannot be limited to the senior management of the enterprise. Its application must be recognized and understood by all employees. Strive to ensure that all employees can log in to the platform for information inquiries. Effectiveness refers to the timely update of information within the platform. The update of untimely information has no time effect.
3. Analysis of the structural model of the enterprise integrated comprehensive information platform under the background of big data

3.1. Establishment of basic application integration platform
In the process of establishing an information platform, the use of basic applications and functions are very important. Generally speaking, these basic applications are established for the convenience of employees to query information and some major data. Based on the support of big data technology, the components of this layer of applications should be the basic services of the enterprise and some simple information exchange.

| Table 1. The main measures for the establishment of enterprise integrated information platform |
|--------------------------------------------------|--------------------------------------------------|
| Implementation of an integrated platform | Main measures |
| Primary process | Realization of shared electronic technology |
| In the middle | Information portal support |
| Maturity | The emergence of data exchange |
| Don't forget | Security Mechanism |

3.2. The establishment of data warehouse integration platform
Enterprise data is the core value of an enterprise. After the platform is established, the establishment of the small platform of the data warehouse can integrate all the data information of the enterprise. This idea is better. However, in the process of establishment, technical personnel must pay attention to the security management and specification of the data warehouse (see Table 1).

3.3. Establishment of an integrated platform for information release
Generally speaking, when an enterprise wants to issue an important notice, the top management of the enterprise will adopt the mode of meeting to convey information\cite{3}. However, according to the research of scholars, the information transmission of the meeting mode can only be applied to the employees who concentrate in the meeting. It can only let most employees know the important notification information of the company. On this basis, if the company can update this information in the information release platform in a timely manner, it will increase the recognition of employees and the breadth of transmission.

3.4. Establishment of technology management integration platform
The target of the establishment of this layer of small platform is the internal technical management personnel of the enterprise and the senior management personnel of some enterprises directly under the jurisdiction. It cannot be applied to all employees of the enterprise. Therefore, the establishment of this type of platform does not take into account the lack of computer knowledge of ordinary employees whose technology does not meet the standards.

4. Implementation of the technology of enterprise integrated comprehensive information platform under the background of big data

4.1. Implementation of electronic technology for database sharing
The development of the data center and the elimination of the existence of single data are the core tasks of the establishment of the integrated platform. After the introduction of big data technology into our country, academic staff have also developed big data analysis technology. With the help of analysis technology, technical personnel can carry out the technical implementation of the enterprise integrated information database sharing platform. Ensure that there will be no information islands again.

4.2. Technical support of enterprise information portal
Similar to the network information portals of some ordinary schools, the information portals of enterprises should integrate their application systems\cite{4}. These include unified identity verification and
unified access. On a specific basis, companies can also add big data analysis portals and personalized data customization portals.

4.3. Technical support for data exchange
On the basis of big data techniques, data sharing is no longer a complicated problem. However, in the process of data exchange, the efficiency of data analysis and the degree of integration cannot be taken into account by big data. Therefore, this requires the support of human technology and the application of cloud computing and other skills.

4.4. Safety management mechanism emphasized again
Technology management security facilities such as antivirus systems based on big data, firewall mechanisms, data replication mechanisms, illegal intrusion detection mechanisms and illegal vulnerability scanning mechanisms are also important content that the platform cannot ignore.

5. Difficulties in establishing an integrated enterprise information platform under the background of big data

5.1. The disconnect between business application and platform construction
In fact, the construction cycle of the integrated platform is relatively long. There are also many standards and principles to be formulated. After people are familiar with information management without a platform, the establishment of business applications and platforms that people want to implement cannot always be presented as an integration. Their relationship is always disconnected. This requires the platform to correct in time.

5.2. Lack of unified data planning
The establishment of an integrated platform has indeed helped enterprises to integrate and collect internal information. However, after all the information was bundled together, there were big problems in data planning. Technicians will be caught off guard. Therefore, unified data planning and analysis is necessary.

5.3. Lack of professionalism of technical staff
The establishment of an integrated platform requires not only the financial support of the enterprise, but also the technical support of the internal personnel of the enterprise. However, many technicians have become accustomed to the use of outdated network data platforms. They are often unable to adapt to the combination of emerging integrated information platforms and big data technologies.

6. Conclusion
Only when the information is produced can there be information-based decision-making and guidance. In order to better use the internal information of the enterprise and carry out the evaluation and analysis of related information, the establishment of an integrated information platform for the enterprise is necessary. The combined use of big data technology is also necessary.

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