









### 4.3. The effects of system implementation

The implementation of quality management information system oriented total quality management makes realizing enterprise quality management of various nodes information sharing and transfer, also breaking through the traditional quality management in space, in time, and information processing ability limit.

- QMIS optimize the management processes, and introduced in many mature and advanced quality management technology concept.
- QMIS and enterprise ERP, PDM core management information system closely integrated, making total quality management scope expanded, quality audit, quality control, nonconforming product processing and a series of content of enterprise quality management integration level are improved.
- QMIS base on network and database, and with the expert intelligent system theory aid, realizing the system automatically decision and control. Enterprise can analysis and processing product quality information, improve the enterprise quality management level.

### 5. Conclusions

In this paper analysis the tobacco industry enterprise's quality management situation, carding optimize business processes, design and implement based on ERP and PDM system synergistic quality management information system. The system realizes the automation decision for raw material, cigarette material and cigarette product in quality management, will improve the enterprise quality information management work efficiency and support enterprise to provide decision for improve cigarette product quality. System in the

future will focus on the introduction of more intelligent methods further enhance system function, using of advanced data mining methods for quality information data analysis and processing, to help further improve enterprise quality management level.

### 6. References

- [1] ZENG Fen-Fang, CHEN Wan-Ling, YAN Xiao-Guang. Research and application on quality control system in production process base on PDM[J]. Machinery Design & Manufacture, 2010, 05(5): 256-257 (in Chinese)
- [2] LIU Cai-Yan, SUN You-Fa. Modeling Process Integrated Quality Management System in Manufacturing Enterprises. 2009 Second International Conference on Future Information Technology and Management Engineering, 2009.
- [3] Zhou Feng. The Research and Realization of the Quality Management Information System Based on ASP[D]. Wuhan: Huazhong University of Science and Technology, 2004(in Chinese).
- [4] CHEN Ke-Yi. Research on Quality Management System Based on Workflow[D]. Harbin: Harbin University of Science and Technology, 2008(in Chinese).
- [5] HE Zhen, LU Jin, LIU Xiao-Liang, et al. Design and development of the integrated quality management system IQMS2.0[J]. Industrial Engineering Journal, 2007, 10(6): 54-58 (in Chinese).
- [6] LU Hai-Liang, ZHANG Zhi-Hua, WANG Huan-Wen. Application of Unified Information Integration Platform in Cigarette Industrial Enterprise Implemented by SAP XI Based on SOA[J]. Tobacco Science & Technology, 2011, 1: 29-32(in Chinese)