

Improve enterprise efficiency by implementing the Physical Access Control System (PACS)

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Abstract

A modern production enterprise is a complex mechanism the efficiency of which is ensured by the management process. Company management sets the main tasks and strategic goals based on both current and new requirements for the enterprise. The effectiveness of the measures taken to optimize and adapt the processes of activity of all levels and employees of the enterprise takes place through strict control of the developed procedures and processes. Quality control is a joint process of human and IT technologies.

Keywords: efficiency, analysis, management, personnel, PACS

1 Introduction

Information technologies according to the most scientists are designed, based and rationally using modern developments in the field of computer technology and high technologies, software and practical experience in order to solve the problems of effective organization of the information process aiming to reduce the costs of time, labour, energy and material resources [1].

2 Overview of the study area

Modern production can be seen as a hybrid process of interaction between people and machines [2]. IT PACS technology can help us to control the quality of this interaction.

PACS is a term, an abbreviation, formed by the capital letters of the word "Physical Access Control System" and is an electronic system that physically restricts access anywhere. By examining PACS on the example of an enterprise having production, we can define PACS as a set of software and technical elements and organizational and methodological measures, the purpose of which is to control limited access space, visit and movement.

Considering types of PACS, the basic elements of PACS will be electronic or biometric data; readers of these data; an electronic controller processing and checking the data and then providing an action signal; an opening or closing electrical mechanism; a computer that manages the controller and stores the databases.

Experience of other enterprises, without their in-depth analysis, can be considered partly subjective, as it is based on a survey of their representatives. At the same time, the accuracy of judgements and experience analysis data is considered objective in connection with the introduction of data only from highly qualified specialists in the field related to PACS. Based on the experience of other enterprises that have implemented PACS, the main factors affecting personnel management are derived: convenient interface,

integration of PACS, speed of data transmission.[3] Regression analysis of data of experience of other enterprises that implemented PACS revealed that factors "Integrability," Agility "definitely influence the indicator of the value" Personnel management, "other factors did not show a certain influence. Also, when collecting these experiences, positive economic effect of the implementation of PACS was revealed.

Analysis of a specific production facility of medium level, application of theoretical research of IT technology of PACS to it and analysis of experience of other industries allowed us to develop the model of PACS implementation. This allowed to conduct the analysis of subsequent effective optimization of business processes and the conclusion of economic impact.

Having proved the hypothesis "Development of the plan and implementation of the system of access control and control in the enterprise X will create a qualitative system of operation with effective interaction of processes, which will improve economic condition of the enterprise", the company has been asked to implement the PACS system, which:

1. Improves interaction and human resources
2. Facilitates monitoring of quality and efficiency of the workflow
3. Accelerates analysis and adjustment of people's involvement in industrial and administrative needs, making important decisions
4. Reduces human influence as a problem of inaccuracy and inadequacy in business process analysis
5. Improves control and security across the enterprise in many ways
6. Economically adapts the enterprise to new requirements

And implements time accounting, staff motivation, and healthy lifestyle promotion.

3 Conclusions

Modern business competition dictates the rules of market

strategy and enterprise management should use all management methods to create effective processes of interaction in order to increase profitability. Thus, PACS, being a strong lever for creating a highly efficient profitable enterprise,

affects enterprise efficiency factors and revenue maximization. The introduction of PACS is one of the first steps to attract investors to a highly profitable enterprise to obtain financial resources that contribute to its economic growth.

References

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