

DATA MANAGEMENT INFORMATION TECHNOLOGIES

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***Abstract.** Today it is difficult to find an area where computers are not used. State or political organizations, private structures, industrial, economic-microfinance, transport, health and others. The complexity of the tasks in these fields, the promptness of the execution deadlines and the requirements for improving the quality of the results necessitate the automated processing and information management.*

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The concept of building networks of automated systems for the management of enterprises and organizations, on the one hand, due to the expansion of the small and medium-sized private business sector, and on the other hand, to place their scope within the framework of international business requirements, has acquired a very important function.

As you know, when designing a multiprocessor system, many features are taken into account, the choice of the optimal values of which is very important and at the same time difficult. Optimizing these values will not only increase the efficiency of the information system, but also reduce the costs required to create it. It's important to consider things like capacity, shared resources, and so on. Optimal distribution. It is equally important to ensure the proper quality of service for the user of the system.

The main types of information technology are:

- Data Processing Information Technology (IT)
- Management IT;
- Office automation;
- Decision Support IT;
- Expert Systems IT.

The following tasks are solved at the level of operational activities:

- Data processing on the operations performed by the organization (firm, company);
- Preparation of periodic control reports on the situation in the organization;
- Receive answers to all possible requests at the moment and sign them in the form of paper documents or reports.

When making decisions at the management control level, information should be presented in an aggregated form so that trends in data changes, causes of deviations, and possible solutions are reflected. At this stage, the following data processing tasks are solved:

- Assessment of the planned condition of the management facility;
- Assessment of deviation from the planned condition;
- Identify the causes of deviation;
- Analysis of possible solutions and actions.

The effectiveness and flexibility of information technology depend greatly on the interface features of the decision support system. The interface defines: user language; the language of computer messaging that organizes dialogs with the screen; user knowledge.

The interface should have the following capabilities:

- Manipulation with various forms of dialogue, which will be changed in the decision-making process at the request of the user;
- Transmit data to the system by various methods;
- Receive data from various system devices in different formats;
- Support (assist on demand, dictate) user knowledge flexibly.

The system creation module is designed to create a set of rules (hierarchy). There are two approaches that can be the basis of system creation module implementation: the use of algorithmic programming languages and the use of expert system shells.

When identifying information system capabilities while making a decision support, the following should be considered:

1. Structuring of tasks to be solved;
2. The level of the organization management hierarchy at which decisions are to be made;
3. Belonging to the task to be solved for this or that field of business;
4. The type of information technology used.

Work technology in information systems is understandably accessible to specialists in a particular field and can be successfully used to control and manage professional performance processes.

The introduction of information systems can facilitate:

- Freeing workers from routine work by their automation;
- Ensuring the accuracy of information;
- Improving the structure of information flows and the system of business management in the organization;
- Providing unique services to clients;

These issues are focused in the given article.

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