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Paper title: Development of Information Technology Structural Scheme for Monitoring Business Process

Keywords specific to the paper: Business Activity Monitoring (BAM), information technology, business process, monitoring, optimization

Summary of the main contributions:

Implementing BAM and BPM systems within existing IT systems saves development costs, minimizes disruption, makes the most of the resources initially installed, and enhances existing systems.

There are three models for implementing business activity monitoring solutions.

- The ***big bang model***: this model seeks to implement various business activity monitoring solutions across all business units. It is suitable for new or stable organizations aiming for medium- to long-term growth.
- The ***selective model***: this is suitable for organizations that are striving to improve their performance and are under considerable pressure to meet their targets. The model focuses on very small sample sizes facing significant losses.
- The ***hybrid model*** focuses on processes that need special attention and on value-stream processes.

Benefits of business activity monitoring:

- Real-time visibility of activities
- Easy to obtain critical information at the right time.
- Optimization of operations (reduced lead times, increased efficiency)
- Easy to implement proactive strategies.
- Ability to anticipate and react rapidly to unforeseen events.

Supported by a software application? (If yes, provide more details):

Software	How it works ?	Application
Systar	Collects data from various applications, systems, and analyses, and presents the information in report or table form.	<ul style="list-style-type: none">- Monitor KPIs in real time- Early detection of risks
Oracle	Platform for real-time monitoring of business processes. The data flow provides customizable dashboards, feeds dynamic analyses, and enables the creation of anomaly alerts.	<ul style="list-style-type: none">- Performance monitoring for continuous optimization- Decision-making support
Web methods	Covers business process development, execution, and monitoring.	<ul style="list-style-type: none">- Automate and monitor business processes- Improve operational efficiency
Tibco	Visualize, analyse, and act on data in real time	<ul style="list-style-type: none">- Identification of optimization opportunities- Reduce event response time
Cognos	Offers data reporting and analysis tools, and dashboards to help companies better understand their data and make strategic decisions.	<ul style="list-style-type: none">- Analysis of performance trends- Reports can be customized to meet specific business needs
Axway	Monitors business processes and transactions. Thanks to real-time analysis, this software offers enhanced reporting and alert capabilities.	<ul style="list-style-type: none">- Monitors compliance with standards and regulations- Quickly identifies and resolves problems

Benefits:

This software offers many advantages, including increased responsiveness, process optimization and simplified decision-making, as well as improved visibility of business processes.

On the other hand, software can be costly, technology-dependent, require user training and adoption, and be complex to implement.