



Improved Process Performance

PROCE55
Improved Process Performance

East-Gate helps customers to increase productivity and reduce process costs through the utilization of innovative BPM (Business Process Management) solution PROCE55. Its focus is on optimal control and continuous optimization of performance of mission-critical processes. PROCE55-based automation and integration solutions are developed for end-to-end processes in the context of heterogeneous systems and applications. Using PROCE55 with agile iterative prototyping East-Gate achieves quick wins and real improvement of process performance in the context of complex mission-critical processes.

Typical usage scenarios are business-driven automation projects in fast changing environment. Business professionals want to implement an industry-specific solution, mainly as an extension of a standard ERP system like SAP, to increase competitive advantage of the company. PROCE55 complements existing enterprise software and adds agility to business operations.

Key Benefits for Customers

Increase of productivity and decrease of process cost

PROCE55 automates end-to-end business processes in the areas that have not been properly covered by standard enterprise information systems. The complexity of process control is reduced without modification of the functionality of standard enterprise applications (e.g. ERP, incl. SAP) by simple integration of other applications, systems and databases, elimination of error sources by integrated barcode or RFID processing, Internet-enabled applications, wireless and disconnected operation mode, high availability of the application.

Business process performance control

Business operational performance is based on the effectiveness of business processes. PROCE55 Process Intelligence offers the

solution for real-time monitoring and analysis of business processes. Processes can be better understood and worked with more effectively. Key Performance Indicators (KPIs) can assess the processes in terms of speed, quantity, quality and cost. Analysis of the measurement results provides deep qualitative as well as quantitative process insight and support for process optimization, performance improvement, waste reduction and mistake elimination.

Optimal price / performance ratio

Process optimization based on PROCE55 allows for short payback (less than one year, based on experience of our customers) and better utilization of IT investments.

Short time of deployment and radical reduction of development costs

New paradigm and CDAP methodology (agile iterative prototyping) simplify and shorten development cycle of solutions and bring the highest flexibility for future. Numerous pre-configured industry solutions speed up the development process and reduce the time-to-solution.

Open solution for future scenarios – safe investment

PROCE55 is based on open standards (Java, XML) and Internet protocols. It is platform-

PROCE55 applications automate mission-critical business processes, especially in the areas of manufacturing and logistics, but also financial, purchasing and sales processes, operating in 24/7 mode.

They add functionality that is not included in standard enterprise information systems. For instance, the functionality of standard ERP systems (like SAP, Oracle, Microsoft) is enhanced in a non-invasive method (without customization or programming).

Ergonomic human-machine interface is optimized for the real processes and users. Errors are eliminated and operation is radically simplified (using composite application and composite transactions) also for blue-collar workers.



independent (Java EE and .NET engines) and allows for multi-channel access (PC, netbook, tablet, PDA, smartphone).

Effective resource utilization and low TCO (total cost of ownership)

PROCE55 requires less hardware resources and maintenance effort compared to other BPM and SOA solutions.

Technical Characteristics of the Solution

Unique Aspects

- » XML-based explicit process model. East-Gate invented native XML for state diagram which controls the optimized BPM engine (model is the process). Changes of the model can be done very easily and affect the process immediately, which allows continuous process improvement.
- » BPMN-based PROCE55 Modeler is cloud-enabled and practically does not differ between the design and run-time. The modeler allows for detailed analysis of the process activities, simulation, adaptation, and optimization.
- » Enhanced integration capabilities with standard information systems (e.g. ERP), legacy systems as well as control systems (e.g. PLCs) and data sources (DBMS). In the context of composite transactions, service calls as well as API calls and any SQL statements can be performed. Special application logic can be developed with PROCE55 application server (supported languages: .NET, C, Perl, Java, Visual Basic).
- » PROCE55 is independent of operating system and runs also on mobile devices.
- » PROCE55 Solution Repository collects East-Gate knowledge, especially for manufacturing and logistics processes (blue-collar automation). It contains pre-configured ready-to-run industry solutions as well as elementary building blocks like process artifacts, work patterns and user interfaces.

Standard Aspects

- » Event-driven BPM engine controlled by XML process model orchestrates process execution and manages states.
- » PROCE55 Modeler allows for rapid interactive solution composition based

on agile iterative prototyping and optimization using simulation.

- » Integrated ESB functionality allows for controlled communication with integrated systems (also in disconnected mode).
- » PROCE55 archive and workflow components facilitate document interaction.
- » Integrated Business Activity Monitoring (BAM) enables process performance measurement (KPIs), analysis and continuous optimization (process intelligence).
- » Easy system management and administration of PROCE55 increases the solution availability and lowers TCO.

Limits to Processes and Their Overcoming

The needs of businesses to improve process performance and to flexibly react to changes are often confronted with the limited possibilities of existing information systems and their sub-optimal support in these needs. The common problems are:

Existing applications do not cover real processes

It is obvious that standard enterprise applications cannot support specific needs of the customer, especially in the areas of best practices and competitive difference. One of the options is to have the missing functionality programmed, which is usually complicated, very costly, unsuitable and inflexible for future modifications. In some cases, existing software might provide the required functionality, but the implementation, maintenance and operation are too costly.

A common issue is that many processes of standard enterprise applications do not correspond with the real processes of the customer. Alternatively, they only collect economic data and do not control the process itself. However, the customers need to solve these serious limitations.

PROCE55 enables to automate real processes of the customer. It brings the much needed functionality and data structures, while keeping high adaptability and flexibility for operational changes.

Complicated use of existing applications in production

Complicated and complex screens require qualified operators. They slow down blue-collar workers in their work, cause mistakes and downtimes. Therefore, universal introduction of these applications into production is difficult and processes are not controlled in real time.

PROCE55 offers ergonomic human-machine interface that is adapted to the real processes and users. It eliminates errors and the operation is radically simplified and adjusted also for low-qualified operators. One button can control several transactions in multiple systems in the background (composite transactions).

Technical limits

Optimal production is often restricted by the technical limits of existing applications. For example, system responses are not suitable for working in real process, terminal screens cannot simultaneously display data or objects from more sources, production is interrupted when the application (e.g. ERP) is offline.

PROCE55 fully overcomes these limits. It processes the responses within a fraction of seconds, and displays objects and data from several sources (composite application).

Flexibility and adaptability

Customers are currently confronted with ongoing changes in processes. These changes are initiated by the changing requirements of customers, pressure to optimize processes and decrease operational costs. Complexity and cost of changes in existing applications is often a major barrier to business flexibility and adaptability. It is almost impossible to provide exact definition of the final state in advance. Ability to create an optimal solution through a dynamic dialogue is essential.

PROCE55 brings unprecedented flexibility into automation and process changes. It uses process modeler and own implementation method CDAP (Customer Driven Adaptive Prototyping), which enable to implement changes in a dialogue with the customer. Business blueprint is not required in advance.