

Integration Solutions

Products&Projects

Situations when integration is required:

- Non-connected applications in the organization
- Business processes above those applications
- Need for minimal alteration of the existing systems
- Indefinite and changeable nature of operating procedures
- Need more effective control and management of the information resources
- Examples:
 - Independently supported databases in various institutions
 - Incorporated modules of different ERP systems

Key benefits:

- Customers continue to use existing systems minimizing investments and assuring smart transition to new system;
- Does not require investment in the infrastructure;
- After implementing this solution customers will be able to change each of the integrated systems transparently for other components assuring freedom of choice for customers;
- In many cases this solution solves the problem of information ownership. The central solution contains only metadata and the actual data stay where it is produced and owned.

Integration today is more than just consolidation of different hardware and software systems on one single platform. Integration nowadays plays one of the key roles in finding the best, quickest and most efficient business management model. It is a unique IT-tool for the achievement of ambitious business goals under limited financial resources while meeting challenges of the uncertain market environment.

The main idea driving most integration projects lies not only in the implementation of a particular IT-solution but in using a comprehensive approach to the customer's needs. This approach includes control and management of information resources, optimization of the business processes and modeling of the future development trends.

FORS Group provides:

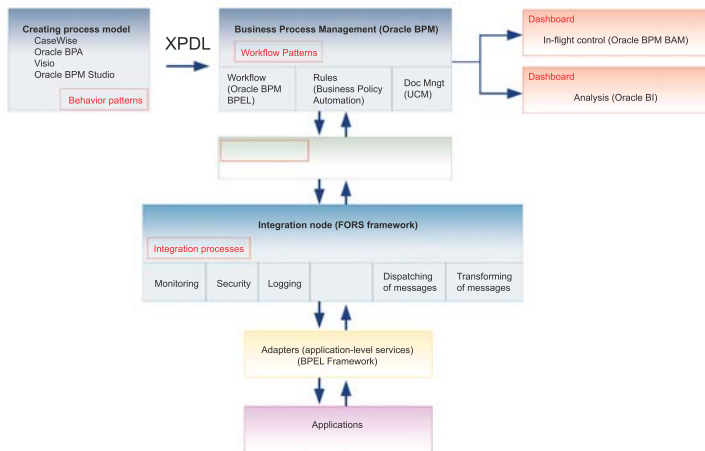
- Implementation of the comprehensive enterprise resource management systems;
- Development of the system-wide project solutions as a core base for large information systems;
- Organization and control of the project team work;
- Expertise of the project solutions and producing recommendations on the fulfillment of integration and administration tasks;
- Component integration with respect to functional, hardware - software and administrative supply;
- Training and maintenance.

RESULT:

- **Realization of your business goals**
- **Consolidation of your IT systems**
- **Your IT system runs ideally and operates with correct and actual data**

Integration provides you with the expected results, taking into consideration the limited time and financial resources.

Business process focus development framework



FORS has developed the integration node that includes tools of communicating to external applications, service of data transformation, tools to monitor and control the message appearing in the registered systems. It's important that we may build chains of messages and events.

Integration node provides mechanism for exchange of messages between different applications including applications that deploy business processes and external applications. Integration nodes works using events generated by applications or business processes, includes registration of external systems, provides mechanism for messages transformation, routing and consolidation.

Integration node performs the followings set of functions:

- monitoring of messages and status of registered resources
- lodges evens in the node
- transforms messages to canonical representation
- dispatches messages
- provides domain-value mapping for the data used in different registered systems
- consolidates information

The node is implemented using Oracle Fusion middleware. Integration node uses products like Oracle Web Service Manager, Oracle Registry at deployment time. It is the major tool to virtualize external systems for the services that are used in the business process.

Largest and most complex projects

Electronic Moscow "One-stop Point for the Citizens"

Integrated system "One-stop Point for the Citizens" constitutes the core element of the Moscow model of the administrative reform in Russia. Main government services and other administrative activities of the authorities are performed automatically. Applications of the citizens are forwarded and tracked via a specially designed portal. The system provides "on-demand" interaction with 85 external systems in total. It is based on the advanced SOA technologies — Oracle Fusion Middleware and Oracle BPEL Process Manager.

The described technology was used for the system of the whole city of Moscow — "one stop services for the citizens". It is used to provide 150 types of municipal services for citizens integrating the work of 160 external systems.

System is in production since 2007. The information system provided integration between municipal organizations that work with citizens and existing information systems. We also developed adapters to existing systems.

Moscow City-Wide System of Electronic Interaction

A city-wide system of electronic interaction unites the whole variety of the integrated compatible branch and department local systems of the Moscow government. This meta-system combines the information available from all the resources in the city, forming in summary the central repository of the city web- services. Its architecture is based on Oracle Fusion Middleware technologies — Oracle AS Portal, Oracle BPEL Process Manager and Oracle Web Service Manager.

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