

Intelligent Goal-Oriented BPM with the
Living Systems[®] Process Suite

Advantages

- ❑ Exceptional process agility
- ❑ Greatly reduced cost and time for process adaptations
- ❑ Unified process vision and model for straightforward collaboration
- ❑ Optimization directly linked to goal fulfillment and performance

Solutions Ready For

Banking Front/Mid/Back Office
Multi-Insurance FO/BO
Reinsurance BO
CRM
Manufacturing PLM/ACM
Energy Trading
Complex Project Management
Demand Planning
Enterprise Integration

The iPMS that intelligently captures and pursues business goals to optimize process design, automation, & analytics

- ❑ Drive processes with business and performance goals
- ❑ Iteratively deploy and optimize your processes on the fly
- ❑ Harness analytics to track and act on process inefficiencies

Seamless Integration of Systems & Human Work

A powerful modeling environment supports the creation of fully executable process-driven applications with incredible speed and fluidity. Connectivity at Web, Logic, and Data levels ensures integration is effortless, and model-driven dynamic screen-flow generation is intuitive and effective.

Unprecedented Agility

By separating process objectives from actual process flow our intelligent BPMS engine can navigate an optimized course to completion each time it executes a process by adapt to events as they happen.

Superior Governance

Governance policies and performance targets fine-tune process execution to ensure process compliance, even when constraints change dynamically.

Measure Process Value

Linking process metrics and KPIs to the attainment of identified business goals enables persistent evaluation of your process value.

Link Activities, Business Data, and People

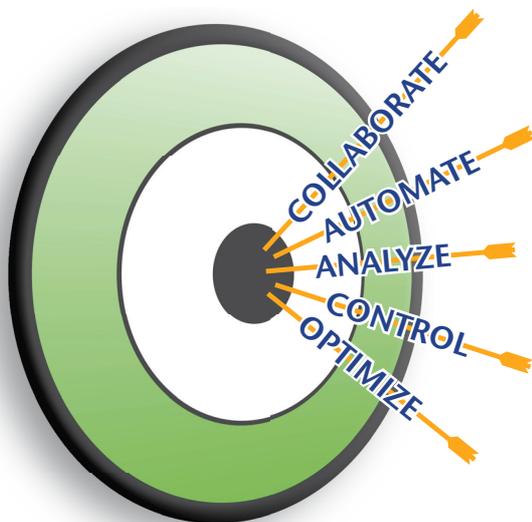
Goal-Oriented BPM integrates the activity, data, and team dimensions of your business. Flexibly balance how each dimension influences your live processes in its own distinctive way.

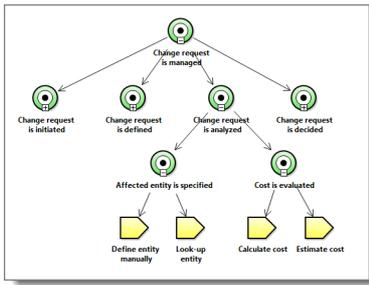
Blend Structured and Unstructured Processes

Focusing BPM on business goals lets you combine highly structured process flows and unstructured dynamic case work in one process application. Support different types of workers contributing towards the same objectives.

The Smart BPM Choice

Goal-Oriented BPM is the only option for organizations that need process agility without compromising visibility or control.



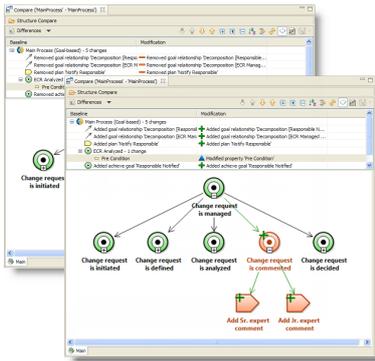


Goal-Oriented Processes

The *Living Systems Process Suite* uses business goals to drive, track, and measure a process. Goals are designed right into the process model and are used to govern and monitor process performance at all times.

The *Process Suite* supports goal-oriented process modeling with *GO-BPMN*, a standards-compatible extension of the widely used BPMN notation.

Goal-Oriented BPMN enriches BPMN by separating policy from procedure: Goals describe what a process will do – its milestones and performance objectives – while activity plans describe how each goal can be achieved.

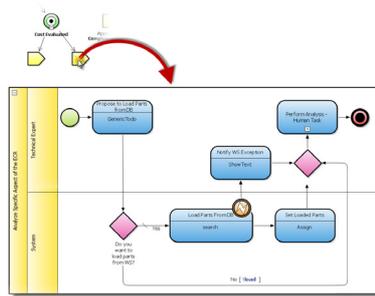


Collaborative Process Design

The *Living Systems Process Suite* lets teams create and improve process models in a collaborative environment that pools the expertise of business and IT professionals during the entire process life cycle.

Meaningful annotation options and tools for model comparison help you understand the status and impact of common work in progress. Powerful merging tools ensure that individual, possibly conflicting contributions are resolved into a complete and stable final process.

An integrated online version management gives access to all process resources. It provides a full history of change and the possibility to roll-back to a previous version at any time.



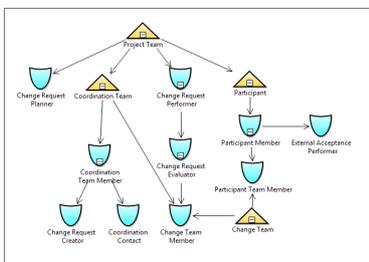
Process Snippets and Patterns

The activity plans that are used to model alternate ways of achieving process goals can be modeled and managed as distinct process snippets or fragments. This helps break a process down into concise, situation-specific BPMN activity chunks held together by the goals they fulfill.

Reusing process snippets as modeling patterns speeds up model design and promotes modeling consistency.

Iterative Process Discovery

The *Living Systems Process Suite* eases process discovery by supporting a build-as-you-go approach. Your process teams can avoid the dreaded “analysis paralysis” and immediately start process design. As the use cases and process details become more explicit, you can seamlessly and iteratively build the process out, testing and executing on the fly.



Organization Modeling

A user-friendly editor lets you model units, roles, and individuals with their respective rights and obligations and add hierarchies for reliable delegation and escalation. These can then be reused in the process model, for instance to assign BPMN swimlanes. During process execution, the *Process Suite* automatically assigns or reassigns tasks to the suitable performer(s). Changes to the organization structure are possible at any time.

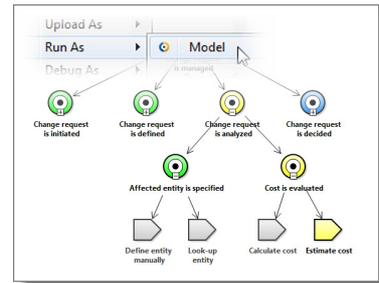
SOA Integration

The *Living Systems Process Suite* uses goal-orientation to orchestrate and govern an entire service landscape to create not simply processes, but applications. Easily invoke Web services at any point in a process model and expose any process instance as a Web service.

What You Model Is What You Execute

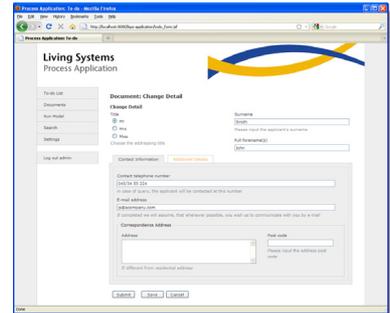
Goal-oriented process models are directly executable and can be run without any further transformation or coding. There is no risk of divergence between the model and what is performed: The model is the entire application.

As the goal-oriented model is used in every step from concept to implementation to monitoring, it becomes a powerful medium of coordination that is shared and understood by all stakeholders. Such transparency builds trust and strengthens collaboration among business managers, analysts, IT specialists, and process users.



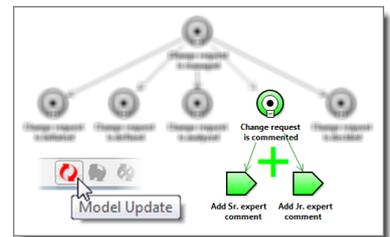
Model-driven Web Client

Supporting any-time adaptations from end to end, the *Living Systems Process Suite* automatically generates the Web-based end-user dialogs straight from the process model. No manual coding or development is required, but full customizability of the interface is supported.



Adaptive Case Management and Unstructured Processes

The *Living Systems Process Suite* supports knowledge work for dynamic case management by making process data available to authorized users and systems for direct editing. Changes to documents can influence process tasks and vice versa. Linking structured and unstructured solution approaches inside a unified goal structure, the *Process Suite* enables applications combining the strengths of each.



Continuous Improvement

With the *Living Systems Process Suite* process models can be changed anytime and immediately. This promotes continuous operational improvement and minimizes the effort, lag, and expense of process change.

Whether the process manager wants to make a planned update or an ad-hoc correction, she can simply apply an updated model to a running process. As each activity plan is a different way of achieving a process goal, exceptions can be added to a process safely and without causing ripple effects throughout the whole model. Powerful validation and migration wizards ensure that even very extensive changes don't break the process and its data.

Self-adaptive Optimization

The *Living Systems Process Suite* pursues process goals with those activity options that optimally achieve them. It selects and orchestrates activities in real-time based on resource availability, business policies, and performance metrics.

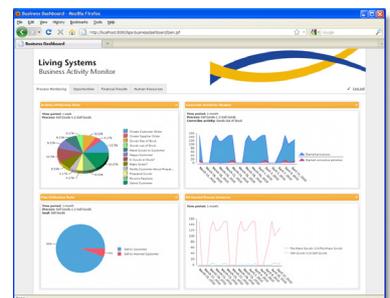
A special class of governance goals continuously monitors states and events within or outside the process, for instance time elapsed or a resource level. They autonomously optimize the process flow or trigger another process to keep cost, time, or any other key business-relevant metric in check.



Goal-Oriented Business Activity Monitoring (BAM)

The *Living Systems Process Suite* directly couples BAM to the progress and value of business objectives. It provides real-time management information for continuous process improvement: process goals display their associated KPIs and immediately highlight the costs and benefits of each business objective.

The browser-based business dashboard displays dynamic widgets and can deliver detailed reports to track, analyze, and benchmark the performance of processes in terms of business metrics and KPIs.



Product Components

Living Systems® Process Design Suite

The *Process Design Suite* provides business and IT users with a comprehensive set of tools to design, execute, test, validate, and monitor goal-oriented process models. The tools are integrated within a self-contained environment that supports the different roles with productive views.

Process Modeler. The modeler leverages the concepts of business goals and plans for a more intuitive BPM experience. Business process specification relies on the graphical *Goal-Oriented Business Process Modeling Notation (GO-BPMN)* to focus on business goals and organization. Activity plans use standard BPMN model elements.

Embedded Process Engine. This embedded version of the *Process Suite*'s execution engine runs any set of process instances from multiple models and versions. With a standard Web browser the developer can connect as any process participant role for testing purposes.

Process Management Console. The process management toolset provides direct process visibility. At any point, the achieved, running, and waiting goals of a process can be inspected, as can the corresponding pending tasks. The whole execution history can be browsed with a step-by-step time slider. Models, data, Web services, and organization resources can all be inspected in real-time. All elements are manually controllable at any time to fine-tune or trouble-shoot a process during execution. Other aspects under control include in-flight model update, user and organization management, security, and data.

Business Dashboard. This Web-based portal is used for monitoring processes in the development phase and for testing the widgets, reports, and charts that will be made available to end-users after deployment.

Living Systems® Enterprise Runtime Suite

The *Enterprise Runtime Suite* is the enterprise-grade realization of the *Process Suite*'s process engine and the associated web-based process application for production deployment. It complies with the JEE 5 standard and runs on supported application servers (see right column for details).

Process Engine. This version of the process engine is optimized for operation in an enterprise setting. It supports production-scale volumes of running processes and connected users.

Process Management Console. The Web-based version of the *Process Management Console* is an integrated cockpit for the operational management of business processes and their associated resources. The rigorously standards-compliant thin client is specifically suited to optimize total cost of ownership of process operation. The Web-based console provides all management features for models, instances, tasks, users, organizations, services, security, logs, and Web services.

Business Dashboard. This customizable Web-based portal enables the monitoring and assessment of business process performance in real-time. From on-line process events and business relevant data sources, the *Process Suite* produces at-a-glance views and organized performance reports for business owners and decision makers. Ready-made metrics and KPIs are provided out of the box. Additional charts and reports can be custom defined and made available to authorized users.

The *Living Systems Process Suite* is a standards-based iPMS that may be deployed out-of-the-box with:

Application Servers

IBM WebSphere, Oracle Weblogic, JBoss, GlassFish

Databases

DB2, Oracle, MS SQL Server, MySQL

Devices

Host systems, desktop/laptop, tablets, smartphones

Browsers

Internet Explorer, Chrome, Firefox, Safari, Opera

Standards and Languages

GO-BPMN, BPMN 2.0, XPD 2.1 (export and import), XMI 2.1.1

SOA

WS-I, XML Schema, WSDL

About Whitestein Technologies

Whitestein Technologies is a pioneer of self-adaptive enterprise software.

We create software that responds to changing conditions so it can optimize your processes and infrastructures in real-time. To stay ahead, we are continuously advancing our innovations in the field of autonomous software agent technology.

Whitestein Technologies was founded in 1999 and is privately held. The firm is headquartered in Zürich (Switzerland) with several global offices.

Global Headquarters

Whitestein Technologies AG
Riedstrasse 13, CH-6330 Cham, Switzerland
+41-44-256-5000

Authorized U.S. Distributor

Living Systems Technologies
212 1/2 King Street, Charleston SC 29401
+1-843-822-3187

E-mail info@whitestein.com
<http://www.whitestein.com>

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