

## Living Systems® Process Suite

### Product Benefits

- ❑ Unifies business and IT visions, language and practice
- ❑ Understands the business goals and directly pursues them in execution
- ❑ Provides unprecedented agility through context and model evolution
- ❑ Saves costs with eased process maintenance and optimization
- ❑ Fast prototyping and rollout with comprehensive standard process module libraries
- ❑ In-flight monitoring and management of running process instances

### Product Features

- ❑ **Goal-Oriented BPM** – Define business goals and just execute them
- ❑ **Autonomic BPM** – Embrace change through in-flight process control and improvement

### The Living Systems® Process Suite:

- ❑ **Process Modeler** for goal-oriented business process modeling
- ❑ **Process Navigation Engine** for agile process execution
- ❑ **Process Management Console** for process deployment and administration
- ❑ **Default Web Application** for dynamic GUI generation and rapid prototyping
- ❑ **Process Component Libraries** to model quickly and effectively
- ❑ **Application Frameworks** to easily build solutions for specific needs

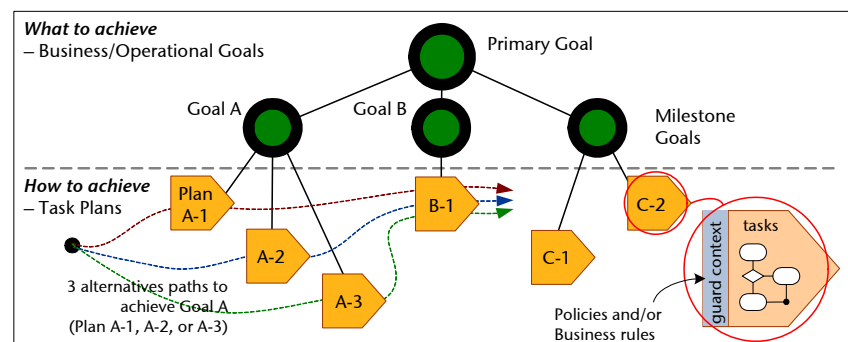
A new generation business process management suite (BPMS) for organizations that want to master change and cut the operational costs of their business processes. The Living Systems Process Suite explicitly captures business goals that directly influence the process flow when executed. Leveraging software agent technology, the Process Suite is built to handle change and uncertainty, delivering lean processes and high-value end-to-end business agility.

### Powering the Future of Process Management

Increasing market share and maximising revenue is highly subject to the effectiveness of deployed process management solutions. This is particularly true in businesses with rapid product and service evolution, customer empowerment, and demanding regulatory environments.

Ensuring this effectiveness directly implies ensuring that your business processes have the flexibility not only to *cope with change but also to thrive on it*, irrespective of whether it is specified or unexpected. After all, change no longer occurs with long lead times, but continuously. Therefore, your BPMS must directly support *continuous process improvement*. As any change implies cost, your BPMS must also drastically minimize the round-trip process engineering time between modeling and execution.

The *Living Systems Process Suite* not only delivers this, but is designed from the ground-up to *enable lean processes* and make the management of change *simple, painless and highly cost effective*.

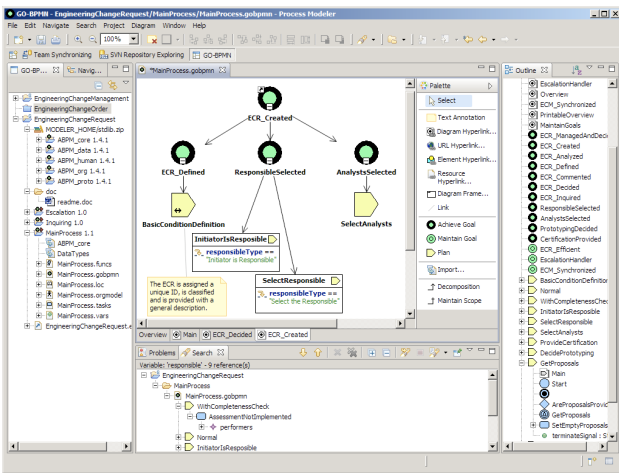


The Living Systems Process Suite features goal-oriented process modeling and navigation

### Goal-Oriented Process Modeling and Execution

The most effective way to manage change is by first expressing processes in terms of the business goals they must achieve. Only once these goals are properly defined should the tasks required to achieve them be selected, assembled and executed. Moreover, by assigning policies/rules to goals, task assemblies can be altered dynamically during process execution. This allows process flow to change in accordance with given conditions while remaining true to specified business or operational goals.

The *Living Systems Process Suite* provides a comprehensive, enterprise scale process modeling and execution tool suite. It releases intrinsic value locked into static processes by decoupling what the process should achieve from how it can achieve it, and orchestrating the optimal process path at run time. This results in powerful execution-time agility and allows business analysts and IT specialists to collaborate in a single unified workspace.



The Process Modeler features intuitive, goal-oriented business process model creation and validation with GO-BPMN

## Living Systems® Process Modeler

The *Living Systems Process Modeler* provides business and IT users with a comprehensive set of tools and methodologies to design, test, and validate goal-oriented process models.

### Goals and plans to intuitively express business processes

The *Process Modeler* leverages the concepts of every-day goals and plans for a more intuitive BPM experience: *first define the goals* a process must accomplish, *then specify the possible plans* that are capable of achieving these goals.

### Graphical modeling language

The *Process Modeler's* business process specification relies on the graphical *Goal-Oriented Business Process Modeling Notation (GO-BPMN)* to focus on business goals and organization.

GO-BPMN extends the OMG-standard Business Process Modeling Notation (BPMN) with goals, plans and their relationships. Within plans, a full set of standard BPMN elements is used, such as looping and transaction sub-processes, and various end and intermediate events (e.g., timer, condition, and signal).

### Separation of goals and plans

GO-BPMN models cleanly separate the (business) goals to be achieved and the plans to achieve them. Changes to any goal or plan in a GO-BPMN process model are *made independently* and *don't have a ripple effect* of consequences as they would in a sequential process model. Hence, changes can be made at any time – even during execution. The resulting adaptability and resilience to changing business conditions *save time and reduce the costs* associated with business process maintenance.

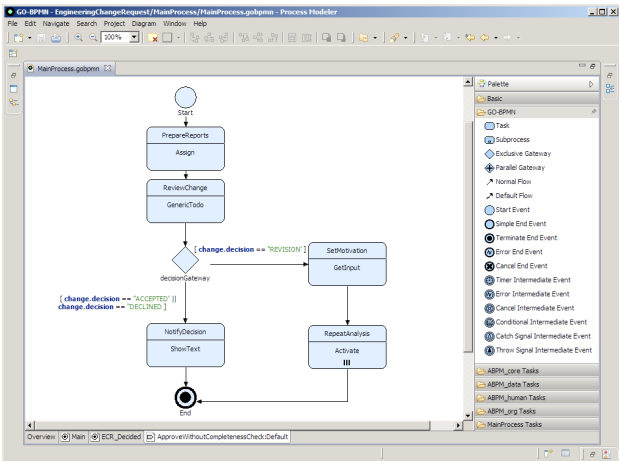
### Separation of activities and organizational model

The *Process Modeler* distinguishes between the activity and organization aspects: *what* needs to be done is not mixed with *who* can or should do it. Model-level representations of people, roles, to-do items, and organization units support agile definition of, e.g., escalation processes.

The *Living Systems Process Suite* thus enables *adaptation to organizational restructuring* and *organization-driven process steering*.

### Accessible process models for business domain experts

Thanks to the primary focus on business goals in lieu of procedures, the resulting process models are of highly descriptive nature. This intuitive method not only supports easier changes, but also enables domain experts to directly do the modeling. The *Living Systems Process Suite* substantially *narrows the gap between business and technology*. Multiple views on the same model can be separately defined and then shown alone or in combined “big picture” overview diagrams.



The Process Modeler is compliant with standard BPMN models

### Modular design for cooperation

Process models are modular, allowing collaboration on large models, domain-specific modules, or libraries. Different people can work on each reusable module and later consolidate their results into a whole model. Beyond integration with the most popular version control systems, sophisticated functionality for graphical differencing and merging of models is also provided.

## Living Systems® Process Navigation Engine

The *Process Navigation Engine* directly executes GO-BPMN process models. It pursues the defined business goals by creating a path that *takes into account model changes and plans alternatives in real-time*.

### Direct execution of process models

The suite's GO-BPMN process models are directly executable, and the *whole user interface*, supporting layout, custom rendering components, and internationalization, can be *automatically generated* from the process model. Domain experts can test their models on their own computer for rapid process development and consistent process lifecycle management.

Round-trip engineering is intrinsic in the *Living Systems Process Suite*, as the suite *never needs to translate* between a modeling notation (such as BPMN) and an execution language (such as BPEL).

### Autonomic goal-oriented process performance

Each business goal connects to one or more plans, each defining a distinctive way to achieve the goal. The *Process Navigation Engine selects and orchestrates* the appropriate plans in real-time *based on business rules* and other domain-relevant context conditions. The system enforces sanity conditions through *continuous monitoring and prompt corrective action*.

### Agile process navigation and responsiveness

Agility in the *Living Systems Process Suite* is based on the autonomic, real-time composition and navigation of a goal-plan-context model, not on the rigid execution of explicit, situation-specific process model variants. This enables process owners with *unprecedented adaptivity* to dynamic business conditions.

### Active coordination and cooperation

The *Process Navigation Engine* performs active coordination and cooperation between multiple process models through message-driven synchronization between process controllers. Competing goals and plans do not lead to obstruction, but are autonomously resolved. The *Process Navigation Engine* also supports *human-to-human cooperation* through individual task delegation, substitute management, and *customizable escalation processes*.

## Living Systems® Process Management Console

The *Process Management Console* offers powerful tools for the deployment and steering of processes and other system administration tasks.

### Continuous visibility of process execution and events

The *Process Management Console* provides detailed monitoring of running process instances. At any point, the achieved, running, and waiting goals of a process can be inspected, as well as the corresponding pending tasks. Moreover, the execution history is recorded and can be visualized using a *step-by-step time slider*.

### Seamless management of organizational resources

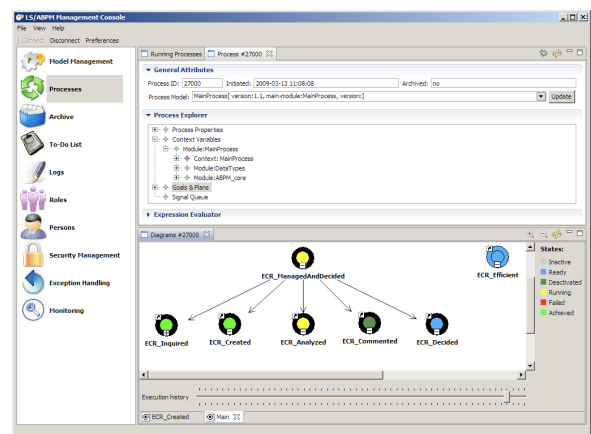
The *Process Management Console* toolbox blends together all the human organization aspects of process runtime administration. Organizational models uploaded in the *Process Navigation Engine* drive the role-based personnel structuring in applications, while security permissions are organized themselves into security roles.

### Systematic control of executing business processes

Supervisors can control all elements (goals, plans, etc.) at any time to fine-tune a process during execution. Other aspects under their control include visualization, data persistency, user management.

## An Enterprise-grade BPM Suite

- ❑ The *Living Systems Process Suite's* tools are Eclipse-based, and the run-time engine can be deployed in Java EE environments.
- ❑ In Java EE contexts, all major application servers are supported (including IBM WebSphere and JBoss).
- ❑ The *Living Systems Process Suite* delivers reliable performance and supports clustering for a highly dependable Java EE-based business process management solution.



The Process Management Console showing a running process

## Application Frameworks & Process Component Libraries

The *Living Systems Process Suite* is shipped with an extensible library of building blocks to start modeling and executing goal-oriented business processes straight out of the box.

### Specialization for any domain or domain aspect

The *Process Suite* provides enterprise users and integration partners with all the tools necessary to create domain-specific process models using pluggable customized task and function libraries.

### Ready integration with front-end technologies

Human tasks and interaction are handled by a customizable subsystem. The provided GUI, user interaction patterns, and modeling elements can be enhanced or substituted by other technologies (e.g., Web frameworks).

### Custom levels of abstraction

The *Living Systems Process Suite* is customizable and programmable at multiple abstraction levels (e.g., goal-level or plan-level models, custom tasks and functions, etc.) balancing development time, execution safety and developer skill level.

## About Whitestein Technologies

*Whitestein Technologies* is a leading innovator in the area of software agent technologies and autonomic computing & communications. *Whitestein Technologies'* product offering includes advanced solutions for the telecom, logistics, financial services, and business process management domains, as well as a comprehensive middleware for the development and operation of autonomous systems. *Whitestein Technologies'* customers and partners include leading global enterprises in the above markets, as well as technology companies, system integrators, universities, and other research institutions.

*Whitestein Technologies* was founded in 1999 and is privately held. The firm is headquartered in Zug (Switzerland) with offices in Zürich (Switzerland), Donaueschingen (Germany), and Bratislava (Slovakia).

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