

Strategic Research Project

COMPAS is a **Specific Targeted Research Project** (STREP) funded by the European Commission under the 7th Framework Programme. The project has a budget of 3.920.000 € and started in February 2008 with a duration of 36 months. COMPAS is furthermore a NESSI Project and plans standardization of some parts of its contributions. The COMPAS project designs and implements novel models, languages and an architectural framework to ensure dynamic and ongoing **compliance of software services** to business regulations and design rules.

Service Composition Solutions
Regulation Domain-specific language
Rule Execution Concepts BPEL
Management Compliance
Business Process Model-driven
Management SOA Reusability
Monitoring Governance Policy
Architectures



Consortium



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COMPAS

Compliance-driven Models, Languages, and Architectures for Services

7th Framework Programme

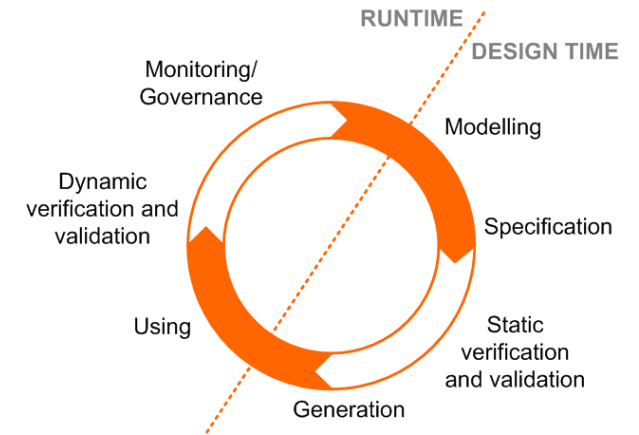
Information and Communication Technologies



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The Compliance Life Cycle

The COMPAS project enhances business process languages, such as the Business Process Execution Language, with **compliance concepts and policies**. Furthermore, COMPAS is developing specification languages and models for expressing typical compliance concerns. A formally grounded and implemented behavioural model for services and **service composition** will be provided enabling the formal validation of compliance of composed services to the specifications. The project develops **monitoring and management** tools for tracking and validating those compliance concerns that can only be verified at run time, thus enabling the **governance** of compliance concerns. The entire compliance lifecycle is being addressed.



Compliance Concerns

Compliance refers to any explicitly stated **rule or regulation** prescribing any aspect of an internal or cross-organisational business process. Examples include: service composition policies, service deployment policies, service sequencing or ordering policies, information exchange policies, security policies, Quality of Service policies, business policies, jurisdictional policies, preference rules, and intellectual property and licences.

Compliance in SOA

Compliance rules are often pervasive throughout the SOA. That is, they have to be considered in all the SOA components, as well as at different development times, including analysis, design, and runtime. The project team is devising a design-for-compliance technology framework which will be used to ensure compliancy of the composition of **business processes and services**.

Model-driven Solution

The **Model-driven** Software Development approach can be used to enable organisations to develop custom business-compliance solutions faster, cheaper, and with less skilled programming. **Domain-specific languages** will be used to enable nonprogrammers to work with and understand the compliance models in their domain.