



# SOMF at a Glance



Service-Oriented Modeling Framework (SOMF) - A modeling platform for Enterprise Architecture, Business Architecture, Application Architecture, service-oriented architecture (SOA), and cloud computing.



# SOMF is a Holistic Modeling Methodology

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SOMF is not founded on any particular programming language. It is holistic because it can accommodate design and architecture of any technology and language syntax. It enables modeling of business and technology for a small project or for a large business initiative. Moreover, SOMF can be used with JAVA, .NET, COBOL, or any other development platform.



# SOMF is a Holistic Approach to Modeling Organizational Assets

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SOMF conceives all organizational software assets as of services. This approach promotes a unified approach for software design. There are three chief software asset structures that SOMF recognizes:

- **Atomic Service:** An indivisible software entity, such as a JAVA or .NET class, a library function, etc
- **Composite Service:** An application that encompasses two or more software components. Such as loan application that may include internal services, such as loan approval service and credit verification service. An ESB is another composite service example
- **Service Cluster:** A group of services that provide a solution to an organizational problem (similar to a domain implementation)



# Light Weight Design and Architecture Approach

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SOMF is affordable because it requires a short learning curve, easy to understand, and quick to implement.



# SOMF Offers Business and Technological Transparency

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SOMF offers a simple modeling language that enables traceability of business, architecture, and design decisions. It is possible to trace development costs, architecture best practices decisions, and design styles by implementing the SOMF's three modeling perspectives: used-to-be, as-is, and to-be.



# SOMF is a Model-Driven Modeling Approach

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SOMF offers easy-to-understand models for service transformation. Each model includes best practices, processes, and diagrams:

- Service Conceptualization Model
- Service Discovery Model
- Service Analysis Model
- Service Business Integration Model
- Service Typing Model
- Service Categorization Model
- Service Design Model
- Service Conceptual Architecture Model
- Service Logical Architecture Model
- Service Physical Architecture Model

In addition, SOMF can be expanded to include three more models that address the construction, deployment, configuration, and operations of a service and its related environment:

- Service Construction Model
- Quality of Services Model
- Service Operations Model



# SOMF Offers Multiple Business and Technological Perspectives

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SOMF offers a 360 degrees approach for service analysis, design, and architecture. There are four major perspectives that SOMF advocates:

- Inward: Design and architecture of service internal structure, capabilities, and implementation (includes interfaces and process)
- Outward: SOMF advocates addressing a service environment (service ecosystem). This includes service integration, interoperability, reusability, etc...
- Upward: SOMF encourages studying organizational SDLC, pursue business process modeling, adherence to enterprise standards and best practices in the space of business architecture and technical architecture
- Downward: SOMF fosters loose coupling of organizational assets and promotes the 'separation of concerns' practice



# SOMF Offers Process and Design Patterns

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SOMF offers more than 150 design and process patterns and anti-patterns for service architecture and design. For example: Road Map patterns, Categorization and Service Typing patterns, Analysis patterns, Design and Modeling patterns, and Service Discovery patterns.



# SOMF Offers Structural and Contextual Modeling Capabilities

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SOMF offers structural and contextual treatment of services. This pertains to physical, logical, and conceptual modeling of a service and its affiliated environment.



# Modeling Tools

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SOMF 2.0 is fully implemented in Enterprise Architect (EA) by Sparx Systems. It supports the chief SOMF models, notations, and diagrams.



# SOMF Training

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SOMF classes and seminars are offered by a growing number of training companies that also offer implementation support and language specific support with SOMF.



# Books

