The Service-Oriented Modeling Framework (SOMF) presents more than 100 modeling patterns and anti-patterns for service discovery and analysis. These templates can be applied to any enterprise architecture initiative, application development, SOA, or cloud computing project.

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Planning an enterprise architecture project? Ready to launch an SOA initiative? Working on a cloud computing assignment? Use the Service-Oriented Analysis and Discovery Patterns in pages 25, 32, 42, and 46.

**Service-Oriented Discovery Patterns**

- Top-Down (71,89)
- Front-to-Back (105)
- Back-to-Front (123)
- Bottom-Up (145)
- Meet-in-the-Middle (165)
Are you in the service categorization step of your project?
Start categorizing your services by their origin - concept, abstraction, legacy, portfolio, or virtual.

**Source Classification Patterns**

- Concept (184)
- Abstraction (185)
- Legacy (188)
- Portfolio (189)
- Virtual (191)
Engage in a structural categorization effort of your services. The service-oriented modeling framework (SOMF) recommends three major service formation types: Atomic, Composite, and Cluster.
Finally, categorize your services based on their contextual affiliation: service capabilities, responsibilities, and functionality. Employ the three contextual categories devised by SOMF: Business Services, Technical Services, and many Subcategories.
Study, analyze, and model services based on their context. Employ the offered contextual generalization patterns to increase their abstraction level and extend their functionality scope.

Service-Oriented Contextual Analysis and Modeling Patterns

Contextual Generalization Patterns

- Simple Proxy (233)
- Dependency Enforcement (234)
- Dependency Separation (236)
- Abstraction Loop (238)
Employ the service contextual specification analysis and modeling approach to decrease service abstraction level, functionality, and overall capabilities.

Service-Oriented Contextual Analysis and Modeling Patterns

Contextual Specification Patterns

- Reverse Proxy (250)
- Separation of Concerns Through Service Specification (252)
- Unification of Concerns Through Service Specification (254)
- Service Specification Loop (256)
Utilize the service-oriented contextual expansion patterns to increase service scope, and widen an enterprise architecture scope in the enterprise.
Employ the contextual contraction patterns to limit the expansion of an architecture, reduce service exposure to consumers, and trip down service operational boundaries.
Use the structural generalization patterns to increase service structural formation and extend its logical and physical dimensions.
Employ the structural specification patterns to decrease service internal construct and limit its logical and physical boundaries.

**Structural Specification Patterns**

- Selective Decomposition (360)
- Total Fragmentation (365)
- Capability Subtraction (369)
- Entity Elimination (372)
- Capability Substitution (375)
- Capability Swapping (379)
- Contract Cancellation (382)
- Contract Internalization (384)
Consider the structural expansion patterns for expanding an architecture and increasing service distribution across the organization and even beyond.

**Structural Expansion Patterns**

- Network Coupling (390)
- Circular Coupling (394)
- Tree Coupling (396)
- Star Coupling (399)
- Federated Service Coupling (402)
- Enterprise Service Intermediary (406)
- Enterprise Service Gateway (408)
- Enterprise Service Bus (411)
- Contract Mediation (415)
- Contract Hub (418)
Finally, utilize the structural contraction patterns to decrease the distribution of services and limit the expansion of an architecture across the organization and beyond.
The Service-Oriented Modeling Framework (SOMF) introduces more than 100 modeling patterns and anti-patterns for service discovery and analysis. These templates can be applied to any enterprise architecture initiative, and SOA, or cloud computing project.