## **Standardized Service Contract**

"Services within the same service inventory are in compliance with the same contract design standards."

When a service is implemented as a Web service, the service contract can be comprised of a WSDL definition and multiple XML schema and policy definitions, as well as supplementary documents, such as an SLA.



service contrac

This principle preaches a "contract first" approach to service delivery, whereby contracts are custom-developed (prior to the development of the service logic) according to design standards that apply to all services within a given service nventorv



Standardized policies and schemas can be centralized so that one definition represents an "official" set of policy assertions or complex types that can be referenced by multiple WSDL definitions.



(Standardization and Design)



Service Loose Coupling

Logic-to-contract coupling is considered a positive form of coupling because it represents the independent creation of a contract that is decoupled from the service environment.

implementation

the servic

logic can be coupled to multiple services

it may need to

compose



impacting service consumers.

- .NET

the service logic may b

oupled to various resource

that are part of the overall

J2EE

vendor

technology



The application of this principle can affect the abstraction of each of these meta information types differently.



This principle advocates the deliberate hiding of service meta data so that a minimal amount of information about a service is accessible to the



The application of this principle can effectively turn a service into a "black box" where the only information made available about the service is what is published in its contract (which may encompass what is also published in a service registry).

Therefore, the content of the service contract itself is a primary focal point for which different abstraction



As a result of this principle, service consumer program designers may be unaware that a service is composing

This places a great deal of emphasis on the reliability and the predictability of a as to allow service | service, regardless of what it may be encapsulting (which also raises issues as to what should be published within service SLAs).

others



Chapter 7: Service Coupling (Intra-Service and Consumer Dependencies)

Chapter 8: Service Abstraction (Information Hiding and Meta Abstraction Types)

## Service Abstraction

