

SOA security

SOA security addresses the issue of combining services in a [service-oriented architecture](#) (SOA) in a secure manner. These issues arise as an effect of the main premise of SOA, which is to erase application boundaries and technology differences. Prior to the application of SOA methodologies, security models have traditionally been hardcoded into applications, and when capabilities of an application are opened up for use by other applications, the existing built-in security models may not be good enough.

Several emerging technologies and standards address different aspects of the problem of security in SOA. Standards such as [WS-Security](#), [SAML](#), [WS-Trust](#), [WS-SecureConversation](#) and [WS-SecurityPolicy](#) focus on the security and identity management aspects of SOA implementations that use Web services. Technologies such as [virtual organization](#) in [grid computing](#), [application-oriented networking](#) (AON) and XML gateways are addressing the problem of SOA security in the larger context.

XML gateways are hardware or software based solutions for enforcing identity and security for SOAP, XML, and REST based web services, usually at the network perimeter. An XML gateway is a dedicated application which allows for a more centralized approach to security and identity enforcement, similar to how a protocol firewall is deployed at the perimeter of a network for centralized access control at the connection and port level.

XML gateway SOA security features include PKI, [Digital Signature](#), [encryption](#), [XML schema validation](#), [antivirus](#), and [pattern recognition](#). Regulatory certification for XML gateway security features are provided by [Federal Information Processing Standards](#) (FIPS) and [United States Department of Defense](#).

See also

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