

SPI Implementations

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SPI modules provide implementations of SPIs defined by the Apache Isis framework itself. As the table below shows, these are typically for cross-cutting concerns such as auditing.

Module	Description	Implements (SPI)	3rd party dependencies
Audit	Persists records of changes (one record per changed property) using an AuditEntry entity.	AuditerService	(none)
Command	Persist action invocations and property edits as CommandJdo entities. This enables profiling and (in conjunction with the Audit module) enhanced auditing.	CommandService	(none)
PublishMQ	Submits an XML representation of member interactions (action invocations and property edits) to an <i>Apache ActiveMQ</i> queue.	PublisherService	ActiveMQ
Security	Provides the ability to manage users, roles, and permissions, by way of an <i>Apache Shiro</i> realm. Users have roles, roles have permissions, and permissions are associated with application features (derived from the Apache Isis metamodel). Permissions themselves can either <i>allow</i> or <i>veto</i> the ability to <i>view</i> or <i>change</i> any application feature.	Authenticator & Authorizer SPIs	Apache Shiro
SessionLogger	Persists session entries representing users logging in or out of the application.	SessionLoggingService	(none)