

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) |