

Tuscany SPIs

Tuscany Java SCA SPIs

Module	Description	SPI packages	Usages	Note
assembly	The model for the artifacts defined by the SCA assembly model and builders for the model	org.apache.tuscany.sca.assembly org.apache.tuscany.sca.assembly.builder	model interfaces will be used by other modules builder interfaces will be used to build the models	Review impl packages being exported We might need to consider splitting assembly from builder
assembly-xml	Read/resolve/write the assembly models in XML	org.apache.tuscany.sca.assembly.xml		binding-sca and binding-sca-xml using assembly-xml -> visit how policy processors are being invoked directly as opposed to using extension mechanism
assembly-xsd	XSDs for various SCA models			
binding-sca	Runtime provider for binding.sca			The SCABinding model is defined in assembly Should be renamed as binding-sca-runtime
binding-sca-xml	Read/resolve/write the binding.sca model in XML			Referencing assembly-xml (review)
contribution	Contribution-related models Scan/process/resolve artifacts within the contributions	org.apache.tuscany.sca.contribution org.apache.tuscany.sca.contribution.processor org.apache.tuscany.sca.contribution.resolver org.apache.tuscany.sca.contribution.scanner	Model for the contribution/artifact /import/export Artifact processor SPIs Artifact resolver SPIs Contribution package scanner SPIs	
contribution-java	Model for import.java and export.java	org.apache.tuscany.sca.contribution.java	Model interfaces for import.java and export.java	
contribution-namespace	Model for import and export (XML namespace)	org.apache.tuscany.sca.contribution.namespace	Model for import and export	
contribution-xml	Handle the read/write/resolve of sca-contribution.xml and sca-contribution-generated.xml			Clean-up AnyElementProcessor and make it up to date with latest code
core	Runtime that deals with SCA composite activation, conversation, scope, context and invocation	org.apache.tuscany.sca.core.assembly org.apache.tuscany.sca.core.context org.apache.tuscany.sca.core.conversation org.apache.tuscany.sca.core.factory org.apache.tuscany.sca.core.invocation org.apache.tuscany.sca.core.scope org.apache.tuscany.sca.core.work	Activators for the assembly Component/Request context handling (accessed by java injection) Conversation management Factory pattern for Java Dependency injection Invocation chain Scope management Work scheduler	The core is exporting too many packages. Some of them can be refactor so that only required packages are exported Visit the packages and identify impl that can become private packages ObjectFactory is a pattern instead of a contract (visit and identify if there is a better way to handle this)
core-databinding	The data transformation interceptor			We need to remove the Export-Package for org.apache.tuscany.sca.core.databinding.processor. It's exported as a workaround for a test case in ws-gen.
core-spi	The SPIs between the core and extension modules (binding, implementation and policy providers)	org.apache.tuscany.sca.context org.apache.tuscany.sca.endpointresolver org.apache.tuscany.sca.invocation org.apache.tuscany.sca.management org.apache.tuscany.sca.provider org.apache.tuscany.sca.runtime org.apache.tuscany.sca.work		Potential to refactor some spi from core to core-spi

databinding	Databinding framework and a set of built-in databindings and transformers	org.apache.tuscany.sca.databinding org.apache.tuscany.sca.databinding.annotation org.apache.tuscany.sca.databinding.impl org.apache.tuscany.sca.databinding.javabeans org.apache.tuscany.sca.databinding.util org.apache.tuscany.sca.databinding.xml		Turn some of the implementation classes for DataType into a factory pattern Refactor some of the utilities into common-xml Might consider splitting databinding to databinding-xml to make the framework independent of xml
databinding-jaxb	JAXB databinding	org.apache.tuscany.sca.databinding.jaxb		JAXB is the default databinding to cover POJOs. We need to find a better way to extract the SPI
definitions	Model and utility for the definitions.xml	org.apache.tuscany.sca.definitions org.apache.tuscany.sca.definitions.util		
definitions-xml	Read/write/resolve definitions.xml			
endpoint	Default implementation for EndpointResolver and EndpointResolverFactory			Should we merge this module into core?
extensibility	SPIs to discover extensions /extension points	org.apache.tuscany.sca.core org.apache.tuscany.sca.extensibility	Extension point registry and core extension points Extensibility SPIs	Rename .core package ?
extensibility-equinox	Equinox-based extensibility implementation			We might have to export a package so that it can be used to set up the service discoverer for the running environment
implementation-java	Model for implementation.java and introspection SPIs	org.apache.tuscany.sca.implementation.java org.apache.tuscany.sca.implementation.java.introspect		We might need to refactor some of the SPIs into something like "implementation-pojo" so that all POJO-based component implementation classes such as Spring, OSGi and EJB3 can reuse the same capability of java introspection
implementation-java-runtime	The runtime for implementation.java	org.apache.tuscany.sca.implementation.java.context org.apache.tuscany.sca.implementation.java.injection		The IoC container to be refactored out?
implementation-java-xml	Read/write/resolve the implementation.java model			
implementation-node	Model for implementation.node to represent a node configuration	org.apache.tuscany.sca.implementation.node		Model the node configuration as impl type is a little bit confusing We need further discussion with the SCADomain story
implementation-node-runtime	The runtime for implementation.node	org.apache.tuscany.sca.implementation.node.launcher org.apache.tuscany.sca.implementation.node.webapp		
interface	The model for Interface/Operation /DataType	org.apache.tuscany.sca.interfacedef org.apache.tuscany.sca.interfacedef.impl org.apache.tuscany.sca.interfacedef.util		Revisit util and possible rename it to a more meaningful based on the functionality that it provides
interface-java	The model for Java interface and visitor SPI	org.apache.tuscany.sca.interfacedef.java org.apache.tuscany.sca.interfacedef.java.impl org.apache.tuscany.sca.interfacedef.java.introspect		Impl is being exported and used in other places, revisit and possible some refactor Some common functionality might be refactored to a common-java module
interface-java-jaxws	Introspection for JAXWS interfaces	org.apache.tuscany.sca.interfacedef.java.jaxws		The JAXWS interface visitor is exported for core-databinding. There is an ordering requirement between this visitor and DataBindingInterfaceVisitor. We need to find a better way to handle that.
interface-java-xml	Read/write/resolve the interface.java model			
monitor	Monitor model	org.apache.tuscany.sca.monitor		
node-api	Node API to bootstrap an SCA node to run SCA composite	org.apache.tuscany.sca.node		Further discussion in the context of SCADomain story

node-impl	JSE based Node implementation	org.apache.tuscany.sca.node.impl		Further discussion in the context of SCADomain story The default node implementation is exported for node-api
node-launcher	A launcher to launch an SCA node with JSE	org.apache.tuscany.sca.node.launcher		
node-launcher-equinox	A launcher to launch an SCA node with Equinox OSGi runtime	org.apache.tuscany.sca.node.equinox.launcher		
policy	Model for policies			
policy-security	Model for security-related policies			
policy-xml	Read/write/resolve policy models			
sca-api	APIs defined by the OSOA			Package names need to be changed to reflect the OASIS specs
workspace	Workspace model to deal with a collection of SCA contributions within an SCA domain	org.apache.tuscany.sca.workspace org.apache.tuscany.sca.workspace.builder		
workspace-impl	Implementations for a set of contribution processing functions			
workspace-xml	Read/write/resolve workspace.xml			
xsd	Model for XML schema files	org.apache.tuscany.sca.xsd		The XSDDefinition is referenced by databinding module to support Java to WSDL/XSD. We need to find a better way so that databinding doesn't have a hard dependency on xsd