

Library References Extension

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JAIN SLEE 1.1 standard introduced the Library component, a wrapper for a set of jars and/or classes to be referenced and used by other components types, such as SBBs.

The usage of the standard Library component is very limited, each Library can only refer other Library components. Due to this limitation a developer may not be able to include classes in a Library that depend, just as example, on Resource Adaptor Type interfaces, unless of course those interfaces are in a Library too.

This extension allows libraries to reference other component types, which the developer should use when the classes in the Library need to use classes from that component, by simply extending the JAIN SLEE 1.1 Library Jar XML descriptor.

Extended Library Jar XML Descriptor DTD

The DTD document changes for the extended library jar XML descriptor:

```
<!--
The library element defines a library. It contains an optional description
about the library, the name, vendor, and version of the library being defined,
zero or more references to any other components that this library
depends on, and information about zero or more jar files that contain
prepackaged classes and resources to be included with the library.

The classes and resources for a library are the sum total of the classes and
resources contained in:
- the library component jar itself (if any)
- the library jars specified by the jar elements (if any)

All these classes are loaded by the same classloader.

Used in: library-jar
-->
<!ELEMENT library (description?, library-name, library-vendor, library-version,
event-type-ref*, library-ref*, profile-spec-ref*, resource-adaptor-type-ref*,
sbb-ref*, jar*)>

<!--
The event-type-ref element identifies an event type that the library classes depend.
It contains the name, vendor, and version of the event type.

Used in: library
-->
<!ELEMENT event-type-ref (event-type-name, event-type-vendor,
event-type-version)>
```

<!--

The event-type-name element contains the name of an event type referred by the library.

Used in: event-type-ref

Example:

```
<event-type-name>
    javax.csapi.cc.jcc.JccCallEvent.CALL_CREATED
</event-type-name>
```

-->

<!ELEMENT event-type-name (#PCDATA)>

<!--

The event-type-vendor element contains the vendor of an event type referred by the library

Used in: event-type-ref

Example:

```
<event-type-vendor>javax.csapi.cc.jcc</event-type-vendor>
```

-->

<!ELEMENT event-type-vendor (#PCDATA)>

<!--

The event-type-version element contains the version of an event type referred by the library

Used in: event-type-ref

Example:

```
<event-type-version>1.1</event-type-version>
```

-->

<!ELEMENT event-type-version (#PCDATA)>

<!--

The profile-spec-ref element identifies an profile specification that the library classes depend. It contains an optional description about the reference, and the name, vendor, and version of the referenced profile specification.

Used in: library

-->

**<!ELEMENT profile-spec-ref (description?, profile-spec-name,
 profile-spec-vendor, profile-spec-version)>**

<!--

The profile-spec-name element contains the name of a profile specification component.

Used in: profile-spec-ref

Example:

```
<profile-spec-name>AddressProfileSpec</profile-spec-name>
```

```
-->
```

```
<!ELEMENT profile-spec-name (#PCDATA)>
```

```
<!--
```

The profile-spec-vendor element contains the vendor of a profile specification component.

Used in: profile-spec-ref

Example:

```
<profile-spec-name>javax.slee</profile-spec-name>
```

```
-->
```

```
<!ELEMENT profile-spec-vendor (#PCDATA)>
```

```
<!--
```

The profile-spec-version element contains the version of a profile specification component.

Used in: profile-spec-ref

Example:

```
<profile-spec-version>1.0</profile-spec-version>
```

```
-->
```

```
<!ELEMENT profile-spec-version (#PCDATA)>
```

```
<!--
```

The resource-adaptor-type-ref element identifies an resource adaptor type that the library classes depend. It contains the name, vendor, and version of the RA type.

Used in: library

```
-->
```

```
<!ELEMENT resource-adaptor-type-ref (resource-adaptor-type-name,  
resource-adaptor-type-vendor, resource-adaptor-type-version)>
```

```
<!--
```

The resource-adaptor-type-name element contains the name of a resource adaptor type component referred by the library.

Used in: resource-adaptor-type-ref

Example:

```
<resource-adaptor-type-name>JCC</resource-adaptor-type-name>
```

```
-->
```

```
<!ELEMENT resource-adaptor-type-name (#PCDATA)>
```

```
<!--
```

The resource-adaptor-type-vendor element contains the vendor of a resource adaptor type component referred by the library.

Used in: resource-adaptor-type-ref

Example:

```
<resource-adaptor-type-vendor>  
    javax.csapi.cc.jcc  
</resource-adaptor-type-vendor>
```

-->

<!ELEMENT resource-adaptor-type-vendor (#PCDATA)>

<!--

The resource-adaptor-type-version element contains the version of a resource adaptor type component referred by the library.

Used in: resource-adaptor-type-ref

Example:

```
<resource-adaptor-type-version>1.1</resource-adaptor-type-version>
```

-->

<!ELEMENT resource-adaptor-type-version (#PCDATA)>

<!--

The sbb-ref element identifies an SBB that the library classes depend. It contains the name, vendor, and version of the SBB.

Used in: library

-->

**<!ELEMENT sbb-ref (sbb-name, sbb-vendor,
sbb-version)>**

<!--

The sbb-name element contains the name of a SBB component referred by the library.

Used in: sbb-ref

Example:

```
<sbb-name>MySbb</sbb-name>
```

-->

<!ELEMENT sbb-name (#PCDATA)>

<!--

The sbb-vendor element contains the vendor of a SBB component referred by the library.

Used in: sbb-ref

Example:

```
<sbb-vendor>My Company, Inc.</sbb-vendor>
```

-->

```
<!ELEMENT sbb-vendor (#PCDATA)>
```

```
<!--
```

The sbb-version element contains the version of a SBB component referred by the library.

Used in: sbb-ref

Example:

```
<sbb-version>1.0</sbb-version>
```

```
-->
```

```
<!ELEMENT sbb-version (#PCDATA)>
```

```
<!--
```

The ID mechanism is to allow tools that produce additional deployment information (ie. information beyond that contained by the standard SLEE deployment descriptors) to store the non-standard information in a separate file, and easily refer from those tools-specific files to the information in the standard deployment descriptor. The SLEE architecture does not allow the tools to add the non-standard information into the SLEE-defined deployment descriptors.

```
-->
```

```
<!ATTLIST library-jar id ID #IMPLIED>
```

```
<!ATTLIST description id ID #IMPLIED>
```

```
<!ATTLIST library id ID #IMPLIED>
```

```
<!ATTLIST library-name id ID #IMPLIED>
```

```
<!ATTLIST library-vendor id ID #IMPLIED>
```

```
<!ATTLIST library-version id ID #IMPLIED>
```

```
<!ATTLIST event-type-ref id ID #IMPLIED>
```

```
<!ATTLIST event-type-name id ID #IMPLIED>
```

```
<!ATTLIST event-type-vendor id ID #IMPLIED>
```

```
<!ATTLIST event-type-version id ID #IMPLIED>
```

```
<!ATTLIST library-ref id ID #IMPLIED>
```

```
<!ATTLIST profile-spec-ref id ID #IMPLIED>
```

```
<!ATTLIST profile-spec-name id ID #IMPLIED>
```

```
<!ATTLIST profile-spec-vendor id ID #IMPLIED>
```

```
<!ATTLIST profile-spec-version id ID #IMPLIED>
```

```
<!ATTLIST resource-adaptor-type-ref id ID #IMPLIED>
```

```
<!ATTLIST resource-adaptor-type-name id ID #IMPLIED>
```

```
<!ATTLIST resource-adaptor-type-vendor id ID #IMPLIED>
```

```
<!ATTLIST resource-adaptor-type-version id ID #IMPLIED>
```

```
<!ATTLIST sbb-ref id ID #IMPLIED>
```

```
<!ATTLIST sbb-name id ID #IMPLIED>
```

```
<!ATTLIST sbb-vendor id ID #IMPLIED>
```

```
<!ATTLIST sbb-version id ID #IMPLIED>
```

```
<!ATTLIST jar id ID #IMPLIED>
```

```
<!ATTLIST jar-name id ID #IMPLIED>
```

```
<!ATTLIST security-permissions id ID #IMPLIED>
```

```
<!ATTLIST security-permission-spec id ID #IMPLIED>
```

This full DTD is available at https://raw.githubusercontent.com/RestComm/jain-slee/master/api/descriptors/library/src/main/resources/slee-library-jar_1_1-ext.dtd

Extended Library Jar XML Descriptor Example

The following XML descriptor examples the definition of references to JAIN SLEE 1.1 Component types other than Library


```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE library-jar PUBLIC
    "-//Sun Microsystems, Inc.//DTD JAIN SLEE Ext Library 1.1//EN"
    "https://raw.githubusercontent.com/RestComm/jain-
slee/master/api/descriptors/library/src/main/resources/slee-library-jar_1_1-ext.dtd">

<library-jar>
  <library>
    <library-name>extended-library-example</library-name>
    <library-vendor>com.redhat</library-vendor>
    <library-version>1.0</library-version>

    <event-type-ref>
      <event-type-name>ExampleX</event-type-name>
      <event-type-vendor>com.redhat</event-type-vendor>
      <event-type-version>1.0</event-type-version>
    </event-type-ref>

    <library-ref>
      <library-name>LibraryX</library-name>
      <library-vendor>com.redhat</library-vendor>
      <library-version>1.0</library-version>
    </library-ref>

    <profile-spec-ref>
      <profile-spec-name>ProfileX</profile-spec-name>
      <profile-spec-vendor>com.redhat</profile-spec-vendor>
      <profile-spec-version>1.0</profile-spec-version>
    </profile-spec-ref>

    <resource-adaptor-type-ref>
      <resource-adaptor-type-name>ResourceAdaptorTypeX</resource-adaptor-type-
name>
      <resource-adaptor-type-vendor>com.redhat</resource-adaptor-type-vendor>
      <resource-adaptor-type-version>1.0</resource-adaptor-type-version>
    </resource-adaptor-type-ref>

    <sbb-ref>
      <sbb-name>SbbX</sbb-name>
      <sbb-vendor>com.redhat</sbb-vendor>
      <sbb-version>1.0</sbb-version>
    </sbb-ref>

  </library>
</library-jar>

```



Note how the DOCTYPE element is set to the extended DTD instead of the standard one.