

# ExternalEntityResolver

## XMLBeans External Entity Resolver

This page is a mini spec on how to resolve external entities.

Support for using a class that implements `org.xml.sax.EntityResolver` interface in two places:

- when parsing regular XML documents that contain references to external entities

Ex:

```
<!ENTITY open-hatch
  SYSTEM "http://www.textuality.com/boilerplate/OpenHatch.xml">
<!ENTITY open-hatch
  PUBLIC "-//Textuality//TEXT Standard open-hatch boilerplate//EN"
  "http://www.textuality.com/boilerplate/OpenHatch.xml">
<!ENTITY hatch-pic
  SYSTEM "../grafix/OpenHatch.gif"
  NDATA gif >
```

- when parsing XMLSchema documents or WSDL documents that contain imports or includes

Ex:

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
... >
<xs:include schemaLocation="included.xsd"/>
```

## How to set the resolver

1. Use `XmlOptions.setEntityResolver(EntityResolver resolver)` to pass in the resolver to be used for parsing XML documents {{ [Xml Object.parse\(...\)](#) }} or compiling XMLSchema or WSDL documents {{ [SchemaTypeSystemCompiler.compile\(...\)](#) }}

2. If no entity resolver has been set in `XmlOptions`, `org.apache.xml.resolver.tools.CatalogResolver` will be used as a resolver if Apache's `XmlCommons resolver.jar` is on the classpath and a catalog file has been specified.

```
scomp -catalog catalog_file.cat
```

3. If the previous conditions failed, the `xmlbean.entityResolver` system property will specify the name of a global, read only resolver.

4. If all previous attempts failed, the resolver will be at the discretion of the used XML parser for XML documents and for XMLSchema and WSDL documents a simple resolver implementation will be used if

{{ [XmlOptions.setCompileDownloadUrls\(\)](#) }}

or

{{ `scomp -dl ...` }}

is used.