

1 SmartFrog XML component

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This component provides a simple way to generate XML documents within SmartFrog. Example uses include J2EE descriptors, Axis WSDD deployment descriptors, etc. Future revisions of the component suite may include an XSL engine, and other utilities for deploy-time XML processing. That is the key. This is not an XML workflow system, it is for generating XML files that can be used as input to XML systems

3 Use Cases

4 J2EE descriptor generation

A project needs to create an application.xml deployment descriptor for target systems. They cannot do this at build time, without creating EAR artifacts that are bound to a particular system. The SmartFrog-based solution is

1. Create the EAR as normal, in Ant or an IDE
2. To deploy, copy the EAR to the target system and *unzip it*.
3. Use SmartFrog to add a new application.xml descriptor to the appropriate place in the unzipped EAR tree
4. Deploy the unzipped EAR to the application server, through communication with the app server, or a copy operation.

5 WSDD Deployment

Apache Axis uses WSDD files for describing web services to deploy. To dynamically generate them using SmartFrog, a set of WSDD component descriptions would be written to describe the relevant elements of the descriptor. A particular deployment would extend these components, creating a custom descriptor. This descriptor would be saved to a temporary file, then deployed to Axis using the relevant deployment API, either the in-JVM Java API, or the SOAP API for out of process deployment.

6 Dependencies

1. Xom (<http://www.cafeconleche.org/XOM/>)
This is the best Java 'Dom' like system that is actively maintained.
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