CAMP PDP Issues

Version: 2011.11.05

# Abstract

Section 4 of the CAMP 1.0 specification[[1]](#endnote-1) provides a partial description of the Platform Deployment Package. Although this section describes such artifacts as a “deployment plan”, a “manifest file”, etc. very little about the PDP has actually been decided upon. There are a number of architectural issues that need to be worked out before the details of the PDP can be specified. The purpose of this write-up is to explore these issues and outline some of the key decision points in their resolution.

# Issues and Questions

## Resources, Models, and Dependencies

There are two models for the contents of the PDP.



Figure 1 - PDP Contains Serialized Resources

In the first, pictured in Figure 1, the PDP contains, along with the platform-specific artifacts, serialized representations of the CAMP-defined resources that make up an application in the “Deployed” state. The problem with this model is that it presumes that the Application Developer knows exactly how the target platform will represent a given application; for example, that, when deployed, a given application will be represented by 2 Application Component Templates, etc. Although this may be true for “familiar platforms” (see the write-up on resource model issues for a definition of this term), it may not be true for “unfamiliar platforms”. Unless CAMP contains or references normative definitions of the mapping between various application frameworks (e.g. Rails, Spring, etc.) and CAMP resources, it is possible that different CAMP implementations with the same underlying frameworks may define this mapping in different ways.



Figure 2 - PDP with Dependency Descriptions

Figure 2 shows a PDP that contains, along with the platform-specific artifacts, a representation of the services that the application depends upon. These dependencies can be “concrete” (i.e. contain the URL of a specific Platform Component on the target platform), in the case of familiar platforms, or abstract, in the case of unfamiliar platforms.

**Q1: Should the PDP contain serialized representations of CAMP-defined resource or should it contain more abstract definitions of the metadata and dependency descriptions?**

1. <http://cloudspecs.org/CAMP/CAMP_v1-0.pdf> [↑](#endnote-ref-1)