Provisioning PaaS Resources for
the Deployment of Service-based Applications in the Cloud

Authors
Mohamed Mohamed
Mohamed Sellami
Samir Tata
Sami Yangui

1. Context
Existing PaaS operating provide proprietary APIs
- Different provisioning operations and required inputs
- Heterogeneous provisioning plans

2. Objectives
- Define a model for a standard description of Cloud resources
  (Platforms and Applications),
- Develop mechanisms for a generic provisioning of Cloud resources

3. OCCI Extended Models

4. COAPS: OCCI-compliant API
- OCCI Platform and Application specifications extending OCCI core
  specifications to describe and manage Application and Platform resources,
- OCCI REST interfaces implementing these new specifications,
- HTTP REST operations extending OCCI HTTP rendering for provisioning
  Applications, Environments, etc.

5. COAPS API Overview

6. Service-based Application Template

7. COAPS Use Cases
- CompatibleOne project

8. References
- COAPS: a Generic Cloud Application Provisioning and Management API
  http://www-inf.telecom-sudparis.eu/SIMBAD/tools/COAPS/
- OCCIJava Platform and Application
  http://www-inf.telecom-sudparis.eu/SIMBAD/tools/OCCI/