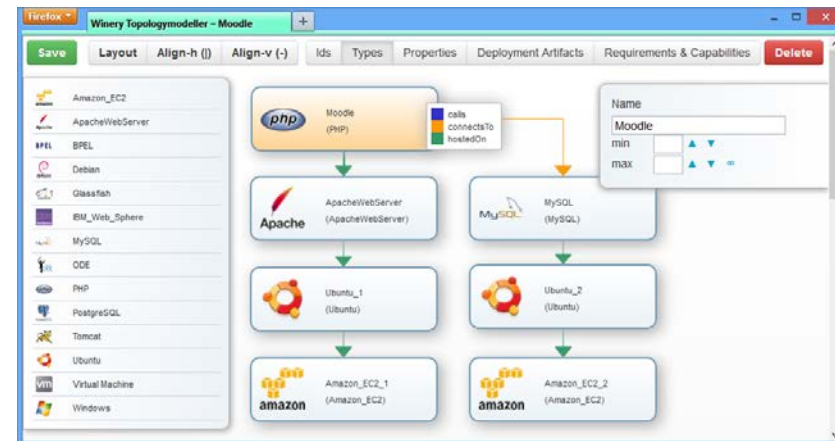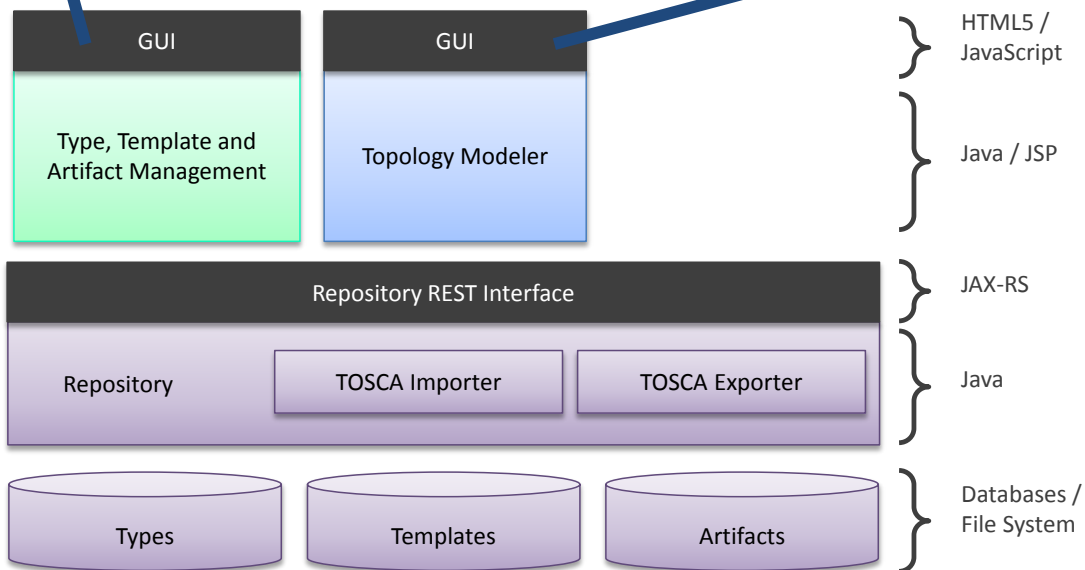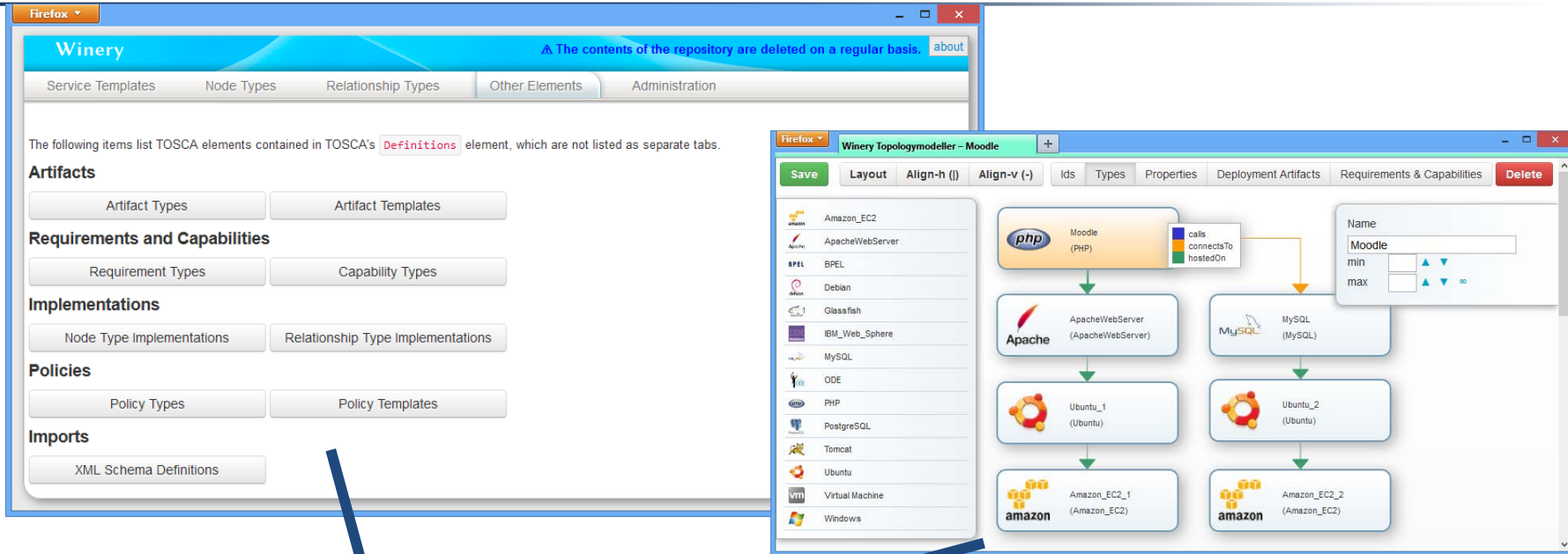# Winery Project

IAAS Research

Oliver Kopp

University of Stuttgart
Institute of Architecture of Application Systems
Germany

Background

- ## OASIS Standard TOSCA
  - Definition of composite applications
  - Definition of management functionality
- ## TOSCA may be used as exchange format and as "native" format
- ## TOSCA-"native" environment
  - Modeling of application topologies: Winery
  - Execution of management functionality: OpenTOSCA Container

Initial Contribution

GUI — HTML5 / JavaScript

Type, Template and Artifact Management — Java / JSP

Topology Modeler

Repository REST Interface — JAX-RS

Repository   TOSCA Importer   TOSCA Exporter — Java

Types   Templates   Artifacts — Databases / File System

Details on the Contribution
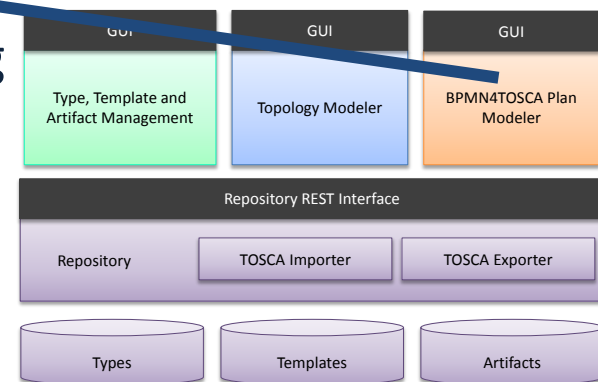
- **Repository**
  - Offers REST API
  - UI integrated via JSPs
- **Topology Modeler**
  - Uses REST API
  - HTML5-based graph-editing
    - SVG used for the edges only
  - 3 JSPs + usage of Java Repository Client (doing the REST calls)
- **BPMN4TOSCA Plan Modeler**
  - Idea to ease management plan modeling
  - Restricted BPMN subset
  - New BPMN tasks and data object
  - No code yet

GUI	GUI	GUI
Type, Template and Artifact Management	Topology Modeler	BPMN4TOSCA Plan Modeler

Repository REST Interface		
Repository	TOSCA Importer	TOSCA Exporter

Types	Templates	Artifacts

Committers and Interested Parties

- Committers
    - University of Stuttgart
- Interested Parties
    - Gerd Breiter, IBM
    - Schahram Dustdar, TU Vienna
    - Jürgen Heinrich, KIVBF
    - Alex Heneveld, Cloudsoft
    - Paul Lipton, CA
    - Peter Niehues, regio iT
    - Derek Palma, Vnomic
    - Albrecht Stäbler, NovaTec
    - Tobias Unger, gridsolut

Dual Licensing Request for Winery

- **The Cloud OSS universe (e.g., CloudStack, jClouds, Deltacloud, Stratos) is ASL-based**
  - ASL more common than EPL in the market where Winery will be used
    - Development: EPL; Deployment: ASL
  - Dual licensing Winery reduces usage and contribution barriers
- **The BPM OSS universe (e.g., jBoss, Activiti, Camunda BPM) is ASL-based**
  - Dual licensing Winery reduces usage and contribution barriers
- **Winery's internal graphical framework can be seen as separate library**
  - Licensing Winery also under ASL enables a broader adoption: Winery's graphical part uses libraries of the jQuery universe, which is mainly MIT/BSD/ASL
- **The Winery project requests board approval to dual-license under Apache License 2.0 and EPL**