

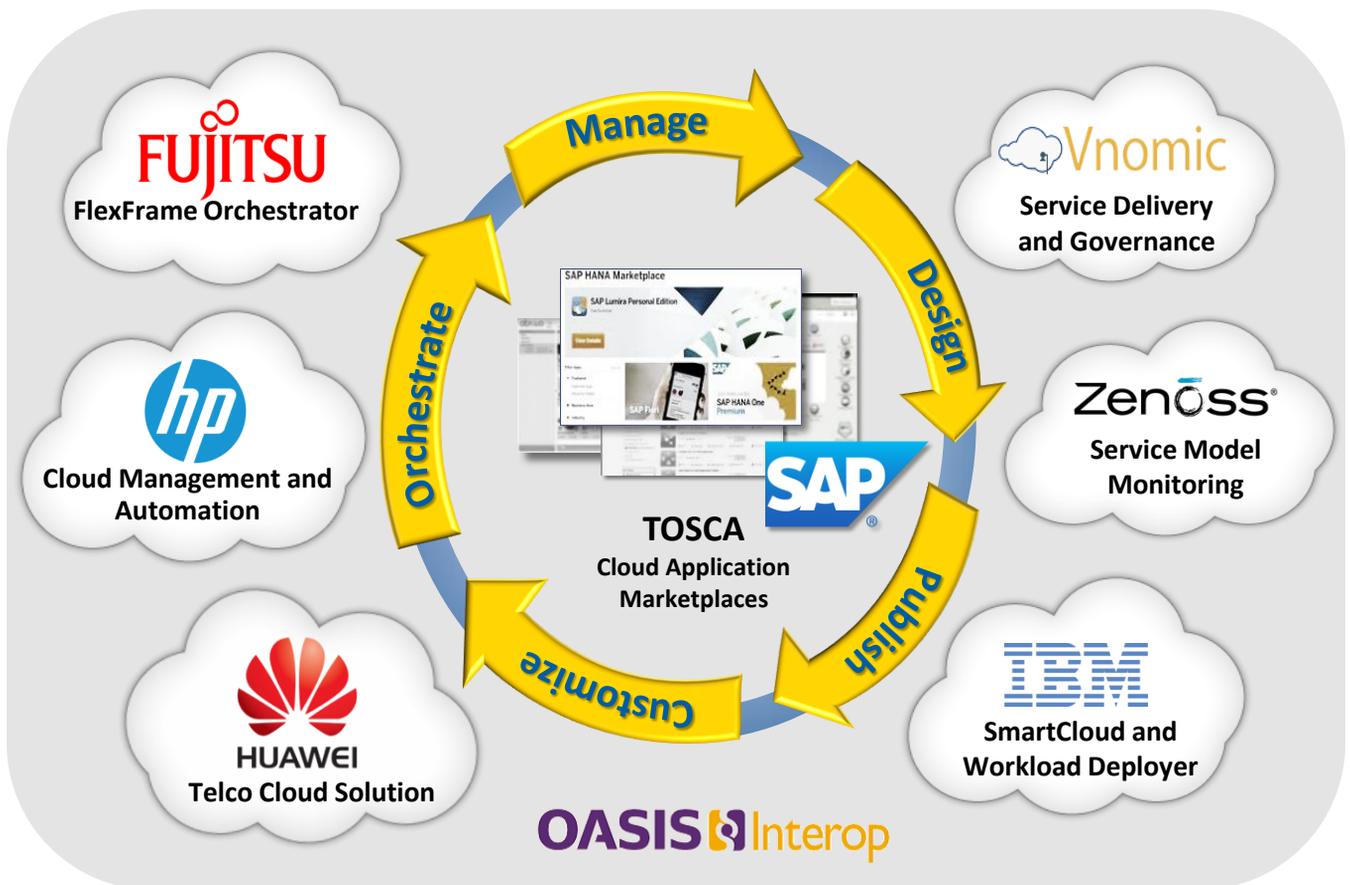
Cloud application runtime and tooling interoperability using the **OASIS Topology and Orchestration Specification for Cloud Applications (TOSCA)** standard will be demonstrated here at the EuroCloud Congress and ICS 2013 events. Please join us in **Room F35** for demonstrations and information.

Objective: Enable *portability and semi-automatic management* of applications across clouds regardless of provider platform or infrastructure thus expanding customer *choice*, improving *reliability*, and *reducing cost* and *time-to-value*.

This objective could have been satisfied by requiring the use of the same cloud orchestration tool on multiple cloud implementations, but this demonstration shows something even more impressive:

Demonstrating: *different cloud orchestration tools from different vendors all interpreting and seamlessly running the same TOSCA service templates in the same way.*

During the demo, a Customer Relationship Management (CRM) application along with its relational database is described as a **TOSCA Service Template** and seamlessly exchanged between cloud orchestration tools and runtimes offered by different vendors.



Benefits: *Using TOSCA service templates, enterprise customers can easily move their applications from one cloud to another and orchestrate them using the expert knowledge the application developers have built into them.*

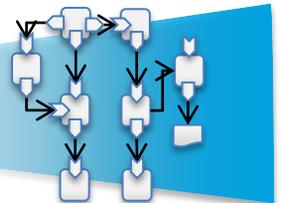
What are some of the key features of TOSCA?

- Interoperable Description of
 - ✓ **Applications**, their component **Services** and **Artifacts**
 - ✓ **Platform** and **Infrastructure** services
 - ✓ **Relationships** between these services
 - ✓ **Management** and **Operational** behavior of these services
- facilitates Solution Portability
 - ✓ **Portable deployment** to any cloud that can orchestrate TOSCA service templates
 - ✓ **Simplify migration** of existing customer apps. to cloud
 - ✓ **Dynamic, flexible scaling** and bursting of multi-cloud applications
- enables Software Defined Environments (SDEs)
 - ✓ **Template contents provide the means to optimize the underlying cloud infrastructure**

TOSCA Service Templates ...

Complete Topology Modeling

Allow developers to describe the topology of their applications and **encapsulate their expert knowledge**, including service configurations, policies and dependencies.



Full Lifecycle Orchestration

Go beyond simple deployment; services can provide instructions for any *lifecycle operations* enabling **precise orchestration and control** of application management tasks.



Service Composability

Support the ability to substitute logical parts of applications through **composable service templates** providing choice in both service vendor and implementation.

