

## Realizing Elastic Processes with ViePEP

### Reference:

S. Schulte, P. Hoenisch, S. Venugopal and S. Dustdar, "Realizing Elastic Processes with ViePEP," in 10th International Conference on Service Oriented Computing (ICSOC 2012) – Demos, volume 7759 of Lecture Notes on Computer Science, 2013, pages 439-443.

### Abstract:

Online business processes are faced with varying workloads that require agile deployment of computing resources. Elastic processes leverage the on-demand provisioning ability of Cloud Computing to allocate and de-allocate resources as required to deal with shifting demand. To realize elastic processes, it is necessary to track the current and future system landscape, monitor the process execution, reason about how to utilize resources in an optimal way, and carry out the necessary actions (e.g., start/stop servers, move services). Traditional Business Process Management Systems (BPMS) do not consider such needs of elastic process. Within this demo, we present ViePEP, a research BPMS able to execute and monitor resource-, cost and QoS-elastic, service-based workflows and optimize the overall system landscape based on a reasoning of the non-functional requirements of current and forthcoming elastic processes.