



Investigation Teams kick-off meeting QoS Area

Brussels, 20-21 October 2008



- Topics opened on Call 1.
 - Scalable SOI.
 - High availability for multi-tier architectures.
- Figures on the call outcome
 - 37 registered people to the area topics.
 - 17 positions papers sent to the area topics.
 - 70% of position papers represented in the KO meeting.
 - Countries: China, Portugal, Italy, Hungary, Spain, France, Belgium, Poland, Germany, Ireland, Norway, Netherlands, Great Britain, ...
- European projects represented:
 - NESSI strategic projects: SLA@SOI, Reservoir.
 - Many FP6 and FP7 projects: GORDA, Shields, Music, Edutain@grid, CoreGrid, EDG, EGEE, PrestoPrime, Stream, ...

Call 1: Availability Topic

- High Availability Subtopics:
 - High availability in multi-tier systems for both single and multiple tiers (also federation of replicated tiers).
 - Performability: Providing availability without affecting performance; continuous availability.
 - High availability across WANs with low latency (edge computing), data centre interconnection to tolerate catastrophic failures, etc.

Call 1: Availability Topic

- High Availability Expected Contributions:
 - Architectural patterns for attaining high availability in single and multi-tier architectures.
 - Architectural patterns for high availability for particular service standards (with emphasis on web services and multi-tier middleware frameworks such as J2EE);.
 - Concrete architectures for high availability including interface specifications for supporting high availability.
 - Standards and specification extensions to deal with high availability with better consistency, performance, performability, etc.

Call 1: Availability Topic

- High Availability Position Paper Topics:
 - Highly available databases.
 - Highly available multi-tier architectures.
 - Architecting open source DBs for high availability.
 - Group communication as building block for high availability.
 - High availability of data for long periods of time and huge amounts of data.
 - Replication in LANs and WANs.
 - Edge computing.

Call 1: Scalability Topic

- Scalable SOI Subtopics:
 - Clustering approaches that scale-out (as opposed to scale-up).
 - Scalability approaches to single and multi-tier architectures.
 - Emphasis on stateful and/or transactional services.
 - Scalability approaches in the context of new SOA paradigms is also sought such as Cloud Computing, Software as a Service, Data Streaming, Edge Computing, Complex Event Processing, Cluster Computing, Web farms, ...

Call 1: Scalability Topic

- Expected Contributions for Scalable SOI:
 - Architectural patterns for attaining scalability in SOI.
 - Specification of SOI interfaces to enable scalability solutions.
 - Addressing scalability issues in SOI standards at the architectural level.

Call 1: Scalability Topic

- Scalable SOI position papers topics:
 - Virtualization.
 - Scalable management, monitoring and logging.
 - Decoupling of service and infrastructure to scale out services.
 - Database scalability.
 - Multi-tier architectures scalability.
 - Scalability prediction at the architectural level.
 - Scalable approaches to automated workflow-to-resource deployment.
 - Composition of resource services for scalable quality provisioning.
 - SOI interfaces to enable scalable solutions.

- Service Level Agreements.
- Quality of Service.
- Service and SOI Management.
- Self-Management: self-optimization, self-provisioning, self-configuration, self-healing.
- Description of Non-Functional Aspects.
- Transactional Support.