OASIS brings together people from around the world to agree on intelligent ways to exchange information in the Cloud, over the Internet, and within their organizations. As a not-for-profit consortium, OASIS advances the open standards that are needed for interoperability and security in the Cloud, including TOSCA, IDCloud, OData, AMQP, SAML and the new CAMP, CloudAuthZ, PACR, and PbD-SE projects just getting underway.

The OASIS technical agenda is driven by our members—over 5,000 participants representing more than 600 organizations and individuals from 100 countries, working in 70+ Technical Committees. A wide range of dues options makes it easy for everyone—companies, government agencies, academics, trade groups, non-profits, and individuals—to get involved.

“OASIS is driven by the needs on the ground of business, governments, and the user community.”

http://www.oasis-open.org
OASIS is the home of many of the most important standards impacting Cloud computing:

**AMQP**

*Advanced Message Queuing Protocol* offers organizations an easier, more secure approach to passing real-time data streams and business transactions. By enabling a commoditized, multi-vendor ecosystem, AMQP creates opportunities to transform the way business is done over the Internet and in the Cloud.

**IDCloud**

*Identity in the Cloud* identifies gaps in existing identity management standards for the Cloud and the need for profiles to achieve interoperability within current standards. IDCloud performs risk and threat analyses on collected use cases and produces guidelines for mitigating vulnerabilities.

**OData**

*Open Data* is a REST-based protocol that simplifies the sharing of data across applications for re-use in the enterprise, Cloud, and mobile devices. OData enables information to be accessed from a variety of sources including relational databases, file systems, content management systems, and traditional Web sites.

**SAML**

*Security Assertion Markup Language* provides a framework for communicating user authentication, entitlement, and attribute data between online partners.

**SOA-RM**

*SOA Reference Model* defines the foundation upon which specific SOA concrete architectures can be built.

**TOSCA**

*Topology and Orchestration Specification for Cloud Applications* enhances the portability of cloud applications and the IT services that comprise them. TOSCA enables the interoperable description of application and infrastructure cloud services, the relationships between parts of the service, and the operational behavior of these services, independent of the supplier that creates the service, the particular cloud provider or hosting technology. TOSCA facilitates higher levels of cloud service and solution portability without lock-in.

**New Technical Committees:**

**CAMP**

*Cloud Application Management for Platforms* standardizes the cloud PaaS management API. CAMP will leverage similarities between commercial and open source PaaS products to produce a generic API that is neutral with respect to language, framework, and platform. With CAMP, users will be able to migrate cloud applications from one PaaS vendor to another by mapping the requirements of applications and their components to the specific capabilities of the underlying platform.

**CloudAuthZ**

*Cloud Authorization* generates profiles of existing standards that allow authorization policies to be enforced as close to the consumer as possible. CloudAuthZ techniques provide consumers with a set of allowed entitlements as well as authorization mechanisms to determine contextual applicable policies in real time.

**PACR**

*Public Administration Cloud Requirements* defines common, necessary functional elements and measurable criteria that should be present in cloud computing services for the public sector. PACR focuses on qualities that are needed to satisfy policy, governmental reliability requirements, responsibility to citizens, and platform-neutral accessibility.

**PbD-SE**

*Privacy by Design Documentation for Software Engineers* develops governance standards that enable software organizations to embed privacy into the design and architecture of IT systems, without diminishing system functionality.