Why Cloud Standards Matter

You Fang, Huawei, OASIS Board of Directors
OASIS Open is a global standards organization representing more than 600 organizations and individuals, since 1993.

- Over 5,000 participants worldwide
- 80+ technical committees producing royalty-free and RAND standards.

http://www.oasis-open.org/
OASIS Global Work on Standards in China: OASIS

- CESI is an OASIS strategic partner & creates standards in OASIS
- Primeton uses OASIS cloud standards for its customers
- Sursen participates in OASIS to further its UOML standard
- Huawei is a sponsor member of OASIS and is on the OASIS Board of Directors
- And many more members from China ...
- First Chinese IT standard in ISO is an OASIS standard: ISO/IEC DIS 14297 (UOML)

OASIS is looking for a Chinese Ambassador now!
Where we are today:

• Cloud computing has matured. There are many options from proprietary (Azure, VM Ware, Citrix, AWS etc.) to Open Source (OpenStack, Cloud Foundry, Eucalyptus, CloudStack)

• Governments, businesses and even individuals are now fully leveraging the power of the Cloud across a range of solutions that range from private, to hybrid to public cloud (based on security requirements for the data)

• Cloud Computing is the key driver for revenue growth at key vendors
Challenges specific to Cloud remain:

- Security and privacy
- Uneven infra-structure, bandwidth and resiliency issues, audit trails and SLAs
- Cost pressure from competition
These challenges can be met with a judicious use of standards:

- Security and privacy: there are many excellent standards in this area

- There’s no cure for poor infra-structure, but there are standards emerging for SLAs

- Cost pressure from competition: standards speed up the time and reduce the cost of deployment
Cloud-relevant OASIS standards and why they matter today – part 1:

- **OASIS Advanced Message Queuing Protocol (AMQP) TC** Defines a ubiquitous, secure, reliable and open internet protocol for handling business messaging in many IoT applications.

- **OASIS Cloud Application Management for Platforms (CAMP) TC** standardizes cloud PaaS management API and is included in OpenStack’s SOLUM.

- **OASIS Cloud Authorization (CloudAuthZ) TC** enables contextual attributes and entitlements to be delivered to Policy Enforcement Points in real time - making Cloud-based authentication more effective on the server side.

- **OASIS Identity in the Cloud TC** has developed profiles of open standards for identity deployment, provisioning and management in cloud computing.

- **OASIS Key Management Interoperability Protocol (KMIP) TC** advances interoperability standard for enterprise encryption key management and is supported by an annual Interop Demo at RSA.
Cloud-relevant OASIS standards and why they matter today – part 2:

- **OASIS Open Data Protocol (OData) TC** simplifies data sharing across disparate applications in enterprise, Cloud, and mobile devices, using JSON

- **OASIS Privacy Management Reference Model (PMRM) TC** provides a guideline for developing operational solutions to privacy issues

- **OASIS SOA Reference Model TC** develops a core reference model to guide and foster the creation of specific, service-oriented architectures

- **OASIS Topology and Orchestration Specification for Cloud Applications (TOSCA) TC** is probably OASIS’s most famous Cloud TC. Enhances the portability and management of cloud applications and services across their lifecycle

- **OASIS Transformational Government Framework TC** advances an overall framework for using IT to improve delivery of public services and has applications in Smart Cities

- **OASIS Virtual I/O Device (VIRTIO) TC** enhances the performance of virtual devices by standardizing key features of the VIRTIO (Virtual I/O) Device Specification
Good news:

- Even proprietary solutions incorporate standards, particularly in security and identity

- Increasing customer demand for data portability is creating a need for standardized APIs

- Standards and Open Source together are a “killer app”. In OASIS, we recognize this fact and now allow all of our standards projects to also create Open Source in a designated repository!
Standards and Open Source will matter even more tomorrow:

• All companies with a global strategy are key players in standardization because standards leadership confers a competitive advantage

• For small and mid-size companies, standards/Open Source can literally create a marketplace for their services or technology

• Even successful, closed eco-systems can’t stay closed forever: if you don’t make your data portable, there will always be a vendor who will find a way to make it portable for you. Standards are a good place to start.
This is a special transition in China’s technological development: China's leadership has already indicated that it favors standards from industry in the IT sector.

What this means:

• Rapid, agile, market-driven standards will become a dominant force, and organizations like CNITS, the Data Center Alliance, W3C, DMTF and OASIS can facilitate this process

• Chinese companies need to be ready to propose their own standards BOTH for domestic and international markets so that their offerings can be IMMEDIATELY competitive GLOBALLY

• ISO/IEC/JTC1 will become more focused on regulatory, long-cycle standards
• OASIS Open is one of the great places to create standards

• Great IP policy, great work process and efficient leadership

• OASIS is not American, European, or Chinese. It is a global standards organization that is not dominated by anyone. Its Board is really international, from Huawei to Fujitsu, to SAP

• Now it’s your turn to become a global, respected standards player!
謝謝!

http://www.oasis-open.org/cn/flash1.htm