Open Platform 3.0™
Overview – 3rd June 2015

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Agenda

• The Open Group
• Why Open Platform 3.0?
• The Open Platform 3.0 Forum
• Requirements for Open Platform 3.0
• The Open Platform 3.0 Snapshot
• Current thinking and direction
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The Open Group

• Global consortium that enables the achievement of business objectives through IT standards
• Vision of *Boundaryless Information Flow™* achieved through global interoperability in a secure, reliable and timely manner
• More than 450 member organizations — customers, systems and solutions suppliers, tool vendors, integrators and consultants, academics, and researchers

www.opengroup.org
Forums and Work Groups

- ArchiMate® Forum
- Architecture Forum
- Enterprise Management Forum
- IT4IT™ Forum
- **Open Platform 3.0™ Forum**
- Platform Base (UNIX) Working Group
- Real-time & Embedded Systems Forum
- Security Forum

- Trusted Technology Forum (OTTF)
- SOA Work Group
- The Governing Board Certified IT Specialist (Open CITS) Work Group.
- The Governing Board UNIX Work Group
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The Digital Society

• Digital structural change
• Social media
• Open innovation
• Open access
• Open culture
• Open government
• More business value
The Open Platform 3.0 Vision
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Forum Mission

Advance The Open Group vision of Boundaryless Information Flow™ by helping organizations take advantage of the convergence of new and emerging technology trends converging with each other and leading to new business models and system designs. These trends currently include:

• Mobility
• Social networks and social enterprise
• Big data analytics
• Cloud computing
• The Internet of Things (networked sensors and controls)
Forum Work Program

- 270 participants from 49 member companies
- Co-chairs Stuart Boardman (KPN) and TJ Virdi (Boeing)
- Open Platform 3.0 Standard definition by whole Forum
- Projects on Big Data, Cloud Computing Governance, Internet of Things, UDEF
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Convergent Technologies Survey

• 95% see the convergent technologies as an opportunity for business
  – about half of these see it as a threat also (46%)
• Mobility currently has greatest take-up of these technologies, and the Internet of things has least
• 84% of those from companies creating solutions want to deal with two or more of the technologies in combination
Business Scenario Requirements (1)

• Use of technologies
  • Provide access to social, mobile, cloud, big data, sensors/controls

• Solution Development
  • Rapid assembly, configuration and operation of solutions by users
  • Development and integration of solutions by IT specialists

• Solution Characteristics
  • Interoperability and Boundaryless Information Flow™
  • Use data from enterprise internal sources, social media, sensors
  • Use cloud to store and process data
  • Analyze large and complex data
  • Use controls to change the environment
  • Display meaningful information to users
Business Scenario Requirements (2)

- Identity and Access Management
  - Management of digital identities and roles
  - Access control
  - IPR protection
- Quality of Service
  - Use, measurement and tracking of standard attributes
- Quality of Data
  - Use, measurement and tracking of standard attributes
- Governance
  - Compliance officers can enforce compliance to regulation and corporate standards of operation
  - Architects can monitor conformance to enterprise architecture.
Business Scenario Requirements (3)

- Portability
  - Combine products and services from different providers
  - No vendor lock-in

- Ease of Use
  - Platform and underlying technologies
User-Driven IT

Smart Business Use, Procurement, Orchestration

Architecture

Programming, Integration

Compliance

Help Desk

Systems Provision and Management
Business Use-Cases

- Multi-media
  - Social networks
  - Social marketing
  - Citizen services
- Retail
- Lifestyle
  - Wearable services
- Medical services
  - Medical research
- Financial Services
- Intelligent utility energy management
- Intelligent traffic management
- Building energy management
  - Point of sale charging
  - Co-generation
Requirements Links

• Convergent Technologies Survey
  – https://www2.opengroup.org/ogsys/catalog/R130

• Open Platform 3.0 Business Scenario
  – http://www.opengroup.org/openplatform3.0/docs/Business_Scenario/mgmt_summ.htm

• Business Use-Cases – the Nexus of Forces in Action
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Snapshot of a Standard for Platforms

- Enterprise ecosystems
- Wider business ecosystems
- Platform capabilities
- Basic architecture models
Enterprise Ecosystem Reference Model
Wider Business Ecosystems
Platform Capabilities

- Multi-Party Services Orchestration
- Transparent Information Flow
- Transparent Event Flow
- Semantic Consistency
- Network and Protocol Adaptability
- End-to-End Security
- Business Management
Basic Architecture Models
Architecture Integration
Application Model
Cloud PaaS Model
Mobile Connected Device Model
Social Web Service Model
Managed Object Model (for IoT)
Data API Source Model
Composition Model
Snapshot Links

• Read the Snapshot on-line
  - http://www.opengroup.org/openplatform3.0/docs/snapshot_op3

• Download the Snapshot in PDF
  - https://www2.opengroup.org/ogsys/catalog/S141

• Comment on the Snapshot
  - platform3-input@opengroup.org
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• **Current thinking and direction**
Big Data

• Vision: to develop architectural guidance to assist organizations in the development of a Big Data Ecosystem that provides business benefits and value
• First Deliverable: white paper
• Co-chairs: Ken Street, Conexiam and Sudhir Singapuram, IBM
Cloud Computing Governance

• Define the overarching governance processes, structures and guidelines across all the aspects of Cloud-based solution deployment from the perspectives of key stakeholders like the Consumer, Provider and Developer.

• Co-chairs: Tina Abdollah (IBM) and E.G. Nadhan (HP)

Completed Cloud Projects

• Service-Oriented Cloud Computing Infrastructure (SOCCI)
• Security for the Cloud and SOA
• Cloud Business Use Cases
• Cloud Computing Explained
• Cloud Computing Interoperability and Portability
• Cloud Business Artefacts
• Use of TOGAF® for Cloud Ecosystems
The Cloud Ecosystem Reference Model

Cloud Management Frameworks

The Model
The Internet of Things

- Formed to address Quantum Lifecycle Management in the Internet of Things
  - Following the PROMISE EU project
- Has developed data format (O-DF) and messaging interface (O-MI) standards
- Working on lifecycle management (O-LM)
- Chair: Kary Främling, Aalto University
UDEF and Semantic Interoperability

- Conceptual naming convention framework with associated structured unique identifiers for indexing and aligning semantically equivalent concepts
- V1 in English, Dutch, and French
- V2 is major re-structuring, in preparation
- Chair: Ron Schuldt, Data Harmonizing

www.opengroup.org/udef
Development of the Platform

• Discussed by the Forum as a whole
• Captured in Snapshots (and eventually in the standard)
• Dissemination, input, and feedback from webinars

Business Ecosystems
Enterprise Ecosystems
Digital Business Value
Open Platform 3.0 Capabilities
The Shape of Applications to Come

- A modern application consists of a platform on which users create services
- You can think of a corporate database this way too
The Shape of Solutions to Come

- Enterprises and wider business ecosystems maintain cross-application service catalogs
- Users compose solutions
The Open Platform 3.0 Standard

- Enterprises and wider business ecosystems maintain cross-application service catalogs
- Users compose solutions
## Open Platform 3.0 Roadmap

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<th>San Diego</th>
<th>Madrid</th>
<th>Baltimore</th>
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<td>3Q2015</td>
<td>4Q2015</td>
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<td>Develop</td>
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- Incremental development
- White Papers/Snapshots then version each year
- Topic publications (not shown) as well as main Standard
# Open Platform 3.0 Topic Publications

<table>
<thead>
<tr>
<th>Publication</th>
<th>Type</th>
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<td>IoT Open Messaging Interface*</td>
<td>Std</td>
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<td>IoT Open Data Format*</td>
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<tr>
<td>Open Public Sector Data Business Scenario*</td>
<td>WP</td>
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<tr>
<td>UDEF Standard</td>
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<tr>
<td>Cloud Computing Governance Framework</td>
<td>Std</td>
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<tr>
<td>Big Data</td>
<td>WP</td>
<td>Q3/15</td>
</tr>
<tr>
<td>IoT Open Lifecycle Management</td>
<td>Std</td>
<td>Q4/15</td>
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* Already published
Current Thinking and Direction Links

- Open Platform 3.0 Forum collaboration website
  - https://collaboration.opengroup.org/platform3
- Webinars on the Business Context for Open Platform 3.0
  - http://www.opengroup.org/subjectareas/platform3.0/businesscontext
Thank you!