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](http://www.opengroup.org)
Open Group Forums

- 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)
- Healthcare Forum
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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

Business value from new technologies

- Social Media
- Mobile Devices and Apps
- Sensors / "Internet of Things"
- Retail / Payments
- Others...

- Management & Stewardship
- Query & Search
- Index & Catalog
- Store
- Correlate & Reduce
- Access
- Apps, Workflows, and Processing

- Gather
- Process
- Understand

- Analyze
- Reason
- Recommend
- Visualize & Report

Gather

Infrastructure

Data about Data

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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

• 350 participants from 57 member companies
• Open Platform 3.0 Standard definition by whole Forum
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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
- Compliance
- Programming, Integration
- Help Desk
- Systems Provision and Management
Business Use-Cases

- Multi-media
- Retail
- Social networks
- Social marketing
- Consumer buying
- Building energy management
- Citizen services
- Medical services
- Wearable services
- Medical research
- Financial Services
- Intelligent automotive management
- Intelligent traffic management
- Smart appliances
- Point of sale charging
- Co-generation

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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

- **Drivers**
  - Global Events and Business Drivers
  - Emerging Technology Trends

- **Business Solutions Utilizing Converged Emerging Technology**

- **Enterprise Portfolio**
  - Product Catalog
  - Enterprise Capabilities
  - Standards and Guidelines
  - Compliance and Governance
  - Ecosystem Participants

- **Business Development**
  - Strategy and Direction
  - Business Planning, Policies
  - Business Support Services
  - Business, Process, APIs

- **Enterprise Operations**
  - Operational Support Services
  - SLA and QLA Monitoring

- **Enterprise Services**
  - Service and Resource Catalog
  - Information and Data
  - Software, Platform, Infrastructure
  - Security
  - Interoperability, Portability
Wider Business Ecosystems
Business Capabilities

• Data Conveyance
• Support for services
• Business data analysis and reporting
• Intellectual property
• Governance
Technical Capabilities

- Event handling
- Semantic consistency
- Resource Management
- Security
- Audit

- Quality of service
- Quality of data
- Upgradeability
- Policy support
Capability Realizations

• The documentation of a platform SHALL state which realizations it does implement, and
• SHALL describe all of its realizations
  • including those not described in the standard
• So that interoperable systems can be developed independently.
Basic Architecture Models

[Diagram of architecture models involving various components such as social network operator, customer, store system, sensor, mobile device platform, and others, illustrating relationships and interactions.]
Architecture Integration
Application Model
Composition Model
Snapshot Links

• Read the Snapshot on-line
  – www.opengroup.org/openplatform3.0/op3-snapshot/

• Download the Snapshot in PDF
  – https://www2.opengroup.org/ogsys/catalog/S152

• Comment on the Snapshot
  – platform3-input@opengroup.org
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Big Data

- Vision: to develop architectural guidance to assist organizations in the development of a Big Data Ecosystem that provides business benefits and value
- Main activity: Open Business Data Lake technical standard (fast-tracked by Capgemini)
Cloud Computing

• Cloud Computing for Business published
• Cloud computing governance technical standard in Company Review
  • Final item of initial work program
• May work on updated guidance for cloud users

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 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
• Exploring use of these standards
  • Including in EU bIoTope project
• Working on lifecycle management standard (O-LM)
Semantic Interoperability

• A semantic index and a method for using it to classify data elements
• Simplifies the development of interface software
• Contributes to improved management and organization of data.
• Standard published May 2016
• Current activity on deployment and index development

www.opengroup.org/subjectareas/platform3.0/o-def
Digital Business

- Digital Business Strategy and Customer Experience Work Group
- Joint WG with the Architecture Forum
- Develop and promote an understanding of what it means to be digital
- Establish best practices for organizations providing a digital customer experience.
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
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
Executable Standards

• An Open Source software package can be a de facto standard
• The Forum is considering providing guidance on executable standards for Open Platform 3.0
• And possibly a sandbox environment for experimentation
## Open Platform 3.0 Roadmap

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<th>Projects</th>
<th>2Q/2016</th>
<th>3Q/2016</th>
<th>4Q/2016</th>
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<td>Open Business Data Lake</td>
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<td></td>
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<tr>
<td>IoT Open Lifecycle Management</td>
<td>Develop</td>
<td>Develop</td>
<td>Publish</td>
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# Open Platform 3.0 Guides and White Papers

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<td>DSP Business White Paper*</td>
<td>WP</td>
<td>Q2/16</td>
</tr>
<tr>
<td>IoT White Paper</td>
<td>WP</td>
<td>Q2/16</td>
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<tr>
<td>Big Data White Paper</td>
<td>WP</td>
<td>Q4/16</td>
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* Produced by the DBCX Work Group – a joint Work Group of the Open Platform 3.0 and Architecture Forums
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!