Open Platform 3.0™

The Emerging Standard for Digital Platforms

Chris Forde
VP Enterprise Architecture &
General Manager Asia Pacific Region

Cell:
+8613601977250
c.forde@opengroup.org

www.opengroup.org.cn
Agenda

• Factors affecting enterprise use of new digital technologies
• The Open Platform 3.0 Snapshot
• Current thinking and direction
Agenda

• Factors affecting enterprise use of new digital technologies
  • The Open Platform 3.0 Snapshot
  • Current thinking and direction
The Open Platform 3.0 Vision

Data about Data

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

Management & Stewardship
Query & Search
Index & Catalog
Store
Correlate & Reduce
Access

Gather
Process
Understand

Analyze
Reason
Recommend
Visualize & Report

Business value from new technologies
The Digital Society

- Digital structural change
- Social media
- Open innovation
- Open access
- Open culture
- Open government
- More business value
Our digital envelopes
- E-mail
- Web browsing
- Social media
- Apps
- Contain value
- Act and interact on our behalf
Business Use-Cases
User-Driven IT

Smart Business Use, Procurement, Orchestration

Architecture

Programming, Integration

Compliance

Help Desk

Systems Provision and Management
Factors Affecting Enterprise Use of New Digital Technologies

- 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
Agenda

- Factors affecting enterprise use of new digital technologies
- The Open Platform 3.0 Snapshot
- Current thinking and direction
Enterprise Ecosystem Reference Model

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

- 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 OLA Monitoring

- Enterprise Services
  - Service and Resource Catalog
  - Information and Data
  - Software, Platform, Infrastructure
  - Security
  - Interoperability, Portability
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
The Open Platform 3.0 Snapshot

• 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
Agenda

• Factors affecting enterprise use of new digital technologies
• The Open Platform 3.0 Snapshot
• **Current thinking and direction**
The Open Platform 3.0 Forum

• 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
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
Relation to TOGAF®

**NOT** an Open Group consensus view

- Not an Open Platform 3.0 Forum view
- Not an Architecture Forum view

Applications, Services and Solutions
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
## Open Platform 3.0 Roadmap

<table>
<thead>
<tr>
<th>Item</th>
<th>San Diego</th>
<th>Madrid</th>
<th>Baltimore</th>
<th>Edinburgh</th>
<th>TBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Platform 3.0 Snapshot 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Develop</td>
<td>Develop</td>
<td>Develop</td>
<td>Publish</td>
<td></td>
</tr>
<tr>
<td>Open Platform 3.0 Version 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Develop</td>
<td>Develop</td>
</tr>
</tbody>
</table>

- 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>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>IoT Open Messaging Interface*</td>
<td>Std</td>
<td>Q4/14</td>
</tr>
<tr>
<td>IoT Open Data Format*</td>
<td>Std</td>
<td>Q4/14</td>
</tr>
<tr>
<td>Open Public Sector Data Business Scenario*</td>
<td>WP</td>
<td>Q4/14</td>
</tr>
<tr>
<td>UDEF Standard</td>
<td>Std</td>
<td>Q3/15</td>
</tr>
<tr>
<td>Cloud Computing Governance Framework</td>
<td>Std</td>
<td>Q3/15</td>
</tr>
<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>
</tr>
</tbody>
</table>

* Already published
Current Thinking and Direction

- 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!