



OMG Cloud Working Group Virtual Meeting -- 25 Mar 2020

Attendees

| Badge | Name | Company | Email |
|-------|------------------------|--|-----------------------------------|
| 493 | Claude Baudoin | cébé IT & Knowledge Mgt | cbaudoin@cebe-itkm.com |
| | Karolyn Schalk | IBM | kaschalk@us.ibm.com |
| | Beniamino Di Martino | University of Campania "Luigi Vanvitelli" | beniamino.dimartino@unina.it |
| | Ali Chinwala | Schlumberger | chinwala@slb.com |
| | Richard Grondin | softBarn Inc. | rgrondin@softbarn.ca |
| | Helmut Brunner | Vation | info@vation.de |
| | Shamun Mahmud | CSA | smahmud@cloudsecurityalliance.org |
| | Juanita Koilpillai | CSA | |
| | Mick Talley | University Bank | mtalley@university-bank.com |
| | Jean-Claude Franchitti | Archemy | jcf@archemy.com |
| | Bhargav Perepa | IBM | bvperepa@us.ibm.com |
| | Steve Woodward | Cloud Perspectives | steve@cloud-perspectives.com |
| | Ciju John | Object Computing Inc. | johnc@objectcomputing.com |
| | Mike Bennett | IOTA | mbennett@hypercube.co.uk |
| | Falko Menge | Camunda | falko.menge@camunda.com |
| | Jyoti Chawla | IBM | jchawla@us.ibm.com |
| | Bobbin Teegarden | OntoAge | bobbin@ontoage.com |
| | Steve MacLaird | OMG | maclaird@omg.org |
| | Tom Sutherland | | |

Document Numbers

| Document No | Title | Author |
|----------------|---|--------------------|
| cloud/20-03-01 | Cloud Standards Update | Steve Woodward |
| cloud/20-03-02 | Cloud Governance Scope and Proposal | Karolyn Schalk |
| cloud/20-03-03 | CSA Research Overview | Shamun Mahmud |
| cloud/20-03-04 | Zero Trust | Juanita Koilpillai |
| cloud/20-03-xx | Minutes of Virtual CWG Meeting, 25 Mar 2020 | Claude Baudoin |

Co-Chair Rotation

One of the co-chair positions has been alternating between Karolyn Schalk and Lisa Schenkewitz, both of IBM. Lisa became co-chair in September, and wishes to step back now. Claude moved to replace Lisa with Karolyn, Richard Grondin seconded, a roll call resulted in unanimous approval (with Karolyn abstaining).

Review of Activities to Date and Work in Progress

See notes about work to date and previous meeting minutes on the AI PTF's wiki page at <https://www.omgwiki.org/cloudwg>.

Data Governance

Karolyn presents a couple of slides. We are soliciting co-authors and reviewers -- we will send a note to the mailing list after Karolyn updates the proposal by incorporating considerations based on the questions below:

- Data privacy: tends to already be covered in other paper. Cross-reference.
- Monitoring and auditing after implementing the recommendations in the paper.

Cyber Insurance

See specific section on this subject farther down.

Cloud in Retail

The idea of a paper containing recommendations to the retail industry on cloud adoption, security, reliability, etc., was raised a year ago by Karen Shunk and has been discussed since then. Jyoti Chawla (IBM) reached out to several people from the Retail Domain Task Force, but this had not progressed quickly and her availability to work on this paper has decreased. We need another champion within the Cloud WG (David Harris?).

There is a RDTF meeting on March 26, including a one-hour session that Claude will participate in. He will bring up this topic.

During a subsequent time slot, Jyoti presented a few slides about the unique requirements and challenges facing retail businesses.

Liaison with Cloud Security Alliance

Claude and Shamun Mahmud (CSA) discussed formalizing a liaison relationship, so that work is not duplicated and knowledge is shared. This leads to more timely creation and adoption of standards. A liaison document has been created and approved by both CSA and OMG. Next step on the OMG side is to ratify it: approval by the Liaison Subcommittee of the Architecture Board, then to a vote by OMG's Board of Directors. However, the liaison sub-committee is not meeting in March; Claude has requested an email vote from the subcommittee, and will ask the same of the Board. Ideally this will get approved by April 2020. David Harris would be the OMG liaison, Shamun Mahmud from CSA. Once approved, we'll discuss specific actions to operationalize the agreement..

Revision of "Interoperability and Portability" Paper -- Prof. Beniamino Di Martino

There is a general agreement to revise. The scope of the revision is expected to include containerization, micro-services, how open source and open standards are addressed and maintained within the proprietary structures. Update of integration patterns.

Karolyn will participate in the revision, and CSA wishes to participate. There is a question whether to continue to treat interoperability and portability together -- Karolyn said that they cannot be separated. Beniamino is concerned about the scope of the effort as a result. There was discussion. Could the paper be split into two, oriented toward different stakeholders (users vs. developers, or functional vs. technical)? We should have a discussion with the original authors.

There needs to be a summary proposal we can publish to the whole group:

- Motivation
- Initial ideas about the changes that need to be made (including whether we should end up with one paper or two)
- List of participants and call for more
- Proposal schedule: first draft, revision, second draft posted 4 weeks before an OMG meeting in order to enable an adoption vote -- probably in September.

Cloud Security Alliance

CSA Update -- Shamun Mahmud

Shamun Mahmud, Senior Research Analyst. "Research Overview" presentation. Summary of CSA history, and of how the CSA works. Active, featured, working groups include AI (possible synergy with OMG's AI Platform Task Force), IoT (possible synergy with Industrial Internet Consortium), blockchain, Quantum-Safe Security and DevSecOps. Paused working groups include one on Data Governance (possible synergy area). Request for IoT use cases. Press Releases. Presentation will be made available

Zero Trust and Software Defined Perimeter -- Juanita Koilpillai

Presentation will be made available. Overview of Zero Trust and fundamentals of implementation.

Discussion

Mick Talley asked whether banks are members of CSA. Shamun answers about the FSSP -- Financial Services Platform. Mick Talley asks about interconnected devices across industry sectors - security management. Juanita answers with guidance on using FIPS140, and other focal. Karolyn points out need to consider details of industry compliance, and local laws.

Steve Woodward asked: "So is CSA SDP starting to gain traction over US TIC, given the White House directive in September giving more flexibility to not go through TIC or Einstein?" Juanita answers positively, describing work done with FedRAMP and other agencies.

Joint Meeting with Blockchain Platform SIG

[Distributed Immutable Data Objects, first look at standards for Blockchain.] Mike Bennett: history and mission summary. Three years ago in response to crypto-currency, blockchains and hyperledger, beginning in the Finance Domain Task Force. Went to a look at how formal ontology might inform smart contracts (common semantics) for supply chains, mortgage records etc. Recognition bigger than Finance, and the Blockchain SIG established - recognition that

there is more to the discussion than crypto currency, IOTA de facto standards, Ethereum, hyperledger. Mission is to identify standards opportunities, currently work with MARS. MARS Issued RFI in Sept 2019 - interoperability across supply chain. Do not want to duplicate standards, better to align with existing standards where possible.

Claude outlined the history of CSCC to OMG, the focus on practical guidance, the Blockchain reference architecture, and other publications. Mike Bennett thinks there might be overlap between the Blockchain reference architecture and Nick Stavros' DIDO paper (veers between what exists as a standard and what should be). The reference architecture is thin on ontology. Mike is after a clear representation of what are largely abstractions. Consideration of multiple points of views on standards; the technical and the business/operational, inclusive of data and other governance. Meeting upcoming (week of March 30) Cloud Working Group will be added bt Claude)

Invite Bhargav Perepa to joint meetings.

Cloud Standards Landscape -- Steve Woodward

Presentation and links will be made available. Agenda: Brief update on work at standards organizations with focus on ISO, summary of work on SC-38 and others. Multi-cloud working group in ISO, having similar conversations to internal CWG on multi-cloud and hybrid cloud concepts. Cloud-connectivity working group have similar synergy - Steve has suggested new work items. Long term standards.

New groups: Cloud Audit lead by Annie Sokol (NIST), work on data ownership

Questions: do we need to renew the Liaison agreement between CWG and ISO SC38? Claude says this is being worked on by the Liaison Subcommittee, as announced in OMG's December meeting.

ISO's cloud computing reference architecture (CCRA) has the same roles as NIST's reference model, but they're organized differently and they add some other subroles.

Since Steve mentioned ITU-T, it is also interesting to note that the CSCC had a liaison with ITU-T, and we haven't done anything under it since CSCC was transformed into the Cloud WG. The liaison on our side should now be held by OMG as a whole. Claude will ask Tracie Berardi (OMG Marketing) to remind him what the current status is.

Idea of a quarterly update published by OMG (suggested by Karolyn Schalk).

Cyber Insurance RFI Status and Plans

RFI issued. Tim Cavanaugh's role. No responses -- comment on reasons. But a request was received by OMG last week about whether a response was still admissible.

Claude: we could write a short paper about the opportunity for this new market and recommendations to three types of stakeholders: users, providers, insurers. Can link this to disaster preparation and remote support capabilities (e.g. in times of coronavirus).

Karolyn moves to extend the RFI deadline to May 25. Seconded by Steve. Steve MacLaird recommends white ballot. No opposition, motion passes. Claude will communicate to Jürgen.

Future Work

Papers in Need of Update

See above section on interoperability and portability.

David Harris suggested that we need to talk about controls on specific products (e.g., how various flavors of Hyperledger Fabric play with Azure or AWS)? Karolyn: do we want to talk about "products" (down to the level of specific companies) or APIs, or generic product categories? Related to the orchestration aspects discussed in papers that David has submitted. Can we give examples of orchestrations that readers could pick up? Some of these use cases may have a very short shelf life. And we don't want to redo OASIS's TOSCA, among others.

It would be useful to add to the Interoperability paper an example (anonymized to avoid offending or favoring a specific company?) of the kinds of orchestration problems users may face and recommendations to address them.

Others:

- PaaS (from 2015)
- Cloud Customer Architecture for IoT: incorporating the discussion of edge vs. cloud, try to involve IIC members
- [Migrating Applications to the Cloud: Assessing Performance and Response Time Requirement](#) (2014)
- [Cloud Customer Architecture for Mobile](#) (2015) -- find out what the original authors (IBM or ex-IBM) think is needed.
- Convergence of Social, Mobile and Cloud -- again, ask original authoris
 - Verbose
 - Probably requires updates since it is 7 years old
 - Point of view needs to be clarified -- developers, end users, providers

- Needs more figures and earlier
- Not well proofread

Joint Work with CSA

Notes

Potential Standards Work (as opposed to just discussion papers)

Needs to be sufficiently distinct work from what other standards organizations are doing.

June Meeting -- Orlando or Virtual

The next OMG meeting week is June 22-26. We must be prepared for the possibility that it will be held virtually again.

Topics:

- Status of papers
 - Interoperability
 - Cyber Insurance
 - Retail
 - Data governance
- Exploring standards for sustainable cloud services (including in the context of the funding of projects: lenders are starting to ask frequently about sustainability goals, availability and source of power, seaside locations, etc.)
- Lessons learned and/or post-COVID cloud practices. “Cloud services for a virtual workforce” paper.
- Cross-pollination with other task forces: ask other TF chairs to give us 30 minutes to discuss how we can help each other.
- Helmut: can we give information about how to choose a cloud service (e.g. running SAP HANA in the cloud). Perhaps start with presentations from vendors (SAP, Azure, Fujitsu, AWS...) or users of such services, then a paper in which we avoid privileging a vendor or another. What does the audience need that is not covered in one of the existing guides, and does not expose us to vendor recriminations?
- More generally, we haven't had experience papers for a while.

Choice of date:

- Tuesday 23 -- shorter lunch time if virtual again (30 minutes)