**NIST BD joint subgroup meeting minutes for Nov. 18, 2013**

Prepared by Sanjay Mishra, Verizon

**Agenda**

* Recap Current Deliverables and Share Future Activities

Current Deliverables:

* + V1.0 Documents for Requirements and Sec. & Privacy – for technical editing
  + V1.0 Documents for Def. & Tax., Ref. Arch., and Tech. Roadmap – need harmonization
  + Schedules: every Monday, 10:00AM – 1:00PM EDT till Dec. 23, 2013
  + Goal: finalize all V1.0 draft documents (ready for technical editing) **by Dec. 23, 2013**
  + Reflector: please use [bigdatadeftax@nist.gov](mailto:bigdatadeftax@nist.gov), [bigdataarch@nist.gov](mailto:bigdataarch@nist.gov), and/or [bigdataroadmap@nist.gov](mailto:bigdataroadmap@nist.gov) for discussion

Future Activities:

* + Seek collaboration with other organization to validate NBD RA via implementation
    - Hopefully finalize soon
    - Issue new call for volunteers with new tasks and deliverables
      * 6 months commitment
  + ISO/IEC JTC1 Big Data Study Group (BD-SG), Nov. 8 to Nov. 2014
    - ISO/IEC JTC1 appointed Wo Chang as the Convener for BD-SG
    - Terms and References
    - Focus Areas:
      * Big Data Architecture/Infrastructure
      * Big Data Analytics
      * Big Data Security & Privacy
      * Big Data Management
    - Meeting: Planning to have three face-to-face meetings
      * January – US
      * April – Europe
      * July – Asia
    - Format: 4 days (2 days workshop – short papers, and 2 days meeting)
    - Workshop papers will go into NIST Special Publication
    - High quality papers may go into ACM Conference Proceeding (need to apply)
    - Seek hosts and sponsors
    - Report due in September, 2014
* Def. & Tax. Documents Status and Needs
* Ref. Arch. Documents Status and Needs
* Tech. Roadmap Status and Needs
* Others??

**NIST Big Data Public Working Group (NBD-PWG) key dates:**

* NBD v1.0; timelines: June 26, 2013 to Nov. 4, 2013; focus on Definitions, Taxonomies, Requirements, Security & Privacy, Reference Architecture, and Technical Roadmap.
* NBD v2.0; timelines: Dec. 1, 2013 to May 30, 2014; focus on reference architecture interfaces
* NBD v3.0; timelines: June 1, 2014 to Dec. 1, 2014 ; focus on applications and tools

**Seek collaboration with other organization to validate NBD RA via implementation**

* Wo is currently negotiating with one possible collaboration organization to establish a working group to help validate NBD RA via actual implementation of various unique kinds of big data scenarios. Hopefully, there will be some positive outcome soon from the negotiation discussion.

**ISO/IEC JCT1 Big Data Study Group**

Wo reported formation of a Big Data Study (BD-SG) Group under the auspices of ISO/IEC JTC1. Wo Chang is appointed as the convener of the BD-SG. The terms and reference for the group included:

*1.      Survey the existing ICT landscape for key technologies and relevant standards/models/studies /use cases and scenarios for Big Data from JTC 1, ISO, IEC and other standards setting organizations,*

*2.      Identify key terms and definitions commonly used in the area of Big Data,*

*3.      Assess the current status of Big Data standardization market requirements, identify standards gaps, and propose standardization priorities to serve as a basis for future JTC 1 work, and*

*4.      Provide a report with recommendations and other potential deliverables to the 2014 JTC 1 Plenary.*

This group shall take input from the ongoing work by NBD-PWG as well as other standards bodies and industry best practices. The report by BD-SG is to be published in **Sep. 2014**. This group is planning to meet 3 times a year across US, Europe and Asia. The tentative time frames are:

1. Jan. – Feb., 2014
2. April, 2014
3. July, 2014

***Currently, looking for hosts and sponsors for the study group meetings.***

**Definition and Taxonomy BD working group (update from Co-chair Nancy Grady)**

* Have tried to adjust the initial definition in section 2 describing data science and breaking down data versus technology needed
* Expanded the last section - Component concepts into definition
* Next step is to go back and look at mind map for any harmonization with the Reference Architecture document

**Reference Architecture (update from co-chair Orit Levin)**

Current version contains editorial changes. No significant changes. Document is in “pretty good shape”, it is complete and readable.

Next steps:

1. The terminology needs to synchronize with other deliverables.
2. Request participants to read the document, and if something still missing or not complete or not clear enough or what needs to be improved, please provide text or comments
3. Request from Wo that Nancy and Orit get together on document harmonization and provide an update. Orit suggested section 3.2 (Big Data Application Provider) is one area for harmonization with the Definition and Taxonomy.

**Technology Road-map (update from co-chair David Boyd)**

1. Awaiting harmonization of Definition & taxonomy with RA for any input into this document
2. Align the document and sections once above is completed and flush out any “holes” that might be there
3. Also looking for any input for anyone reviewing the document. Lacking input for sections 7 and 8
   1. PW Carey has volunteered to review section 7.

**General Comments (Wo Chang)**

1. NBD-PWG team to update documents and complete by Dec. 23, 2013.
2. NBD-PWG will work with other collaboration organization in parallel to get the V2.0 going.
3. NBD-PWG will supply needed documents to ISO/JTC 1 BD-SG.
4. Orit asked about “patterns”. Are we going to look into this?
   1. Wo pointed out that by working with the potential collaboration organization as mentioned above, the joint effort will enable us to identify unique big data use cases, implement selective use cases with specific technologies and solutions, then we can have a better understanding of the interactions between RA key components at the low-level but aggregate them into higher level patterns for the RA as the general interface.
5. ***Change in meeting time: 1PM – 4PM US EST effective, Monday, Nov. 25, 2013 onwards***

**Action Items**

1. Upload latest Def. & Tax. documents to the NBD upload document site. ***Owner: Nancy***
2. Synchronize Def. & Tax. and RA documents before next meeting. ***Owner(s): Nancy & Orit***
3. Review Def. & Tax. and RA (particularly Section 3.2) documents before next meeting. ***Owner(s): ALL***
4. Review Section 7 of Technology Roadmap. ***Owner(s): PW and ALL***
5. Try to finalize independent sections of Tech. Roadmap from harmonization. ***Owner(s): TR authors***

**Attendee List (online):**

1. Wo Chang
2. Sanjay Mishra
3. Nikos Tsantanis
4. Jay Greenberg
5. Mike Brule
6. Rick Jones
7. John Dodd
8. Yuri Demchencko
9. PW Carey
10. Karen G
11. Orit Levin
12. William Miller
13. David Boyd
14. Bill Mandrick
15. Bruno Kelpas
16. Steven McGee
17. Nancy Grady (on phone)

**Online chat (Transcript)**

Questions on the chat that were not discussed at the telecon but answered by Wo.

Q1. (10:22 AM) Karen G: How will the technologies be selected for the testbed implementation?  Don't need an answer now; just thinking ahead.

A1: It is totally up to the implementers for the nature of the big data scenarios. It is also depending on the use case submitters for the environments that they are operating under.

Q2: (10:28 AM) Pw Carey, Compliance Partners, LLC: How big a list of HW/SW should we put together....any & all HW/SW that inter-acts with Big Data....? Pw

A2: The size of the computing nodes (HW/SW) should be small and manageable. The goal is try to understand the interactions/interfaces between RA key components.

Q3: (10:42 AM) Pw Carey, Compliance Partners, LLC: Background regarding HIPPA/HITECH....Where HIPAA/HITECH Compliance Policies Must Change Because of the FDA Guidance

A3: Per our NBD discussions before, NBD will not address any HIPAA/HITECH issues but will provide pointer to the relevant information.

Q4: (10:45 AM) Pw Carey, Compliance Partners, LLC: Do we need to address the impact(s) of Regulatory Changes across many sectors and their influence regarding Big Data Security & Privacy & Analytics, too.....perhaps

A4: Via NBD Security & Privacy Subgroup, NBD will provide high-level interfaces to deal with big data security and privacy concerns but not the regulatory or policy issues. We could discuss more at the next telecon and hope Arnab would be available to hear his insight.

Q5: (11:20 AM) Pw Carey, Compliance Partners, LLC: Are we collaborating with CSA BIG DATA...?

A5: NBD does collaborate with CSA Big Data. Arnab Roy is representing for both groups.

(9:52 AM) Wo (guest) joined.

(9:55 AM) Nikos Tsantanis (Intracom Telecom) joined.

(9:55 AM) Jay Greenberg joined.

(10:00 AM) Mike Brule joined.

(10:01 AM) David Boyd (Data Tactics) joined.

(10:02 AM) Rick Jones joined.

(10:02 AM) Sanjay Mishra(Verizon) joined.

(10:02 AM) John Dodd joined.

(10:03 AM) Yuri Demchenko (UvA) joined.

(10:05 AM) Pw Carey, Compliance Partners, LLC joined.

(10:06 AM) Karen G joined.

(10:07 AM) Orit joined.

(10:08 AM) Orit: Good morning! Sorry for being slightly late.

(10:08 AM) Pw Carey, Compliance Partners, LLC: The Journal of Cyber Security & Information Systems Oct. Issue has an article titled: Cyber Risk to Transportation Industrial Control Systems via Dr. Mike Robinson, Dr. Barry Ezell, Peter Foytik, Craig Jordan & Joe Weiss....(interesting article...yes?) Respectfully yours, Pw

(10:08 AM) William Miller joined.

(10:15 AM) Pw Carey, Compliance Partners, LLC: Ok...so our focus should be on the following: BD Architectures (all aspects)/BD Analytics (all aspects)/BD Security & Privacy (all aspects), & BD Data Management (all aspects)....sounds like a nice challenge...Respectfully yours, Pw

(10:19 AM) Pw Carey, Compliance Partners, LLC: That's ok....we understand....it's not confusing to us color blind wanna bees....Pw

(10:22 AM) Karen G: One question:

(10:22 AM) Karen G: How will the technologies be selected for the testbed implementation?  Don't need an answer now; just thinking ahead.

(10:23 AM) Pw Carey, Compliance Partners, LLC: Are your referring to the various industries...Karen...? Pw

(10:23 AM) \_SAFIA\_D\_(\_CLOUDAGEIT\_) joined.

(10:24 AM) Karen G: Pw - I was thinking hw & sw.

(10:25 AM) Pw Carey, Compliance Partners, LLC: Ok....LAN, WAN, WIFI, NETWORKS, CLIENTS/SERVERS, ET AL...Yes...? Pw

(10:26 AM) David Boyd (Data Tactics) disconnected.

(10:26 AM) Karen G: yes.

(10:27 AM) David Boyd (Data Tactics) joined.

(10:27 AM) David Boyd (Data Tactics) disconnected.

(10:28 AM) David Boyd (Data Tactics) joined.

(10:28 AM) Pw Carey, Compliance Partners, LLC: How big a list of HW/SW should we put together....any & all HW/SW that inter-acts with Big Data....? Pw

(10:28 AM) Pw Carey, Compliance Partners, LLC: Not by vendor but by functionality...would work....Pw

(10:28 AM) Karen G: Right - and it's probably too early to be asking.  :)

(10:29 AM) Pw Carey, Compliance Partners, LLC: Ok....we'll sit down...&...cool our jets....Thanks...Pw

(10:33 AM) Pw Carey, Compliance Partners, LLC: Welcome back Orit.....

(10:39 AM) \_SAFIA\_D\_(\_CLOUDAGEIT\_) disconnected.

(10:42 AM) Pw Carey, Compliance Partners, LLC: Background regarding HIPPA/HITECH....Where HIPAA/HITECH Compliance Policies Must Change Because of the FDA Guidance The Key Differences Between Medical Apps and Other Software from a HIPAA Perspective The Effects of the FDA Guidance on EHR Systems and Other Internal Information Systems Why the FDA Guidance Affects More than "Mobile" Apps FDA's Regulatory Approach to Medical Devices and Software OCR's Expected Enforcement Response: Pw

(10:45 AM) Pw Carey, Compliance Partners, LLC: Do we need to address the impact(s) of Regulatory Changes across many sectors and their influence regarding Big Data Security & Privacy & Analytics, too.....perhaps...Pw

(10:46 AM) Pw Carey, Compliance Partners, LLC: Just a thought....

(10:46 AM) David Boyd (Data Tactics) disconnected.

(10:46 AM) David Boyd (Data Tactics) joined.

(10:47 AM) David Boyd (Data Tactics) disconnected.

(10:47 AM) David Boyd (Data Tactics) joined.

(10:51 AM) Bill Mandrick (Data Tactics) joined.

(10:54 AM) William Miller disconnected.

(10:59 AM) David Boyd (Data Tactics) disconnected.

(10:59 AM) David Boyd (Data Tactics) joined.

(11:02 AM) David Boyd (Data Tactics) disconnected.

(11:02 AM) David Boyd (Data Tactics) joined.

(11:02 AM) Pw Carey, Compliance Partners, LLC: We

(11:02 AM) Pw Carey, Compliance Partners, LLC: We'll be glad to take a look at Section Seven....Pw.....

(11:03 AM) Pw Carey, Compliance Partners, LLC: Such as in using Big Data an appropriate choice for the task....Pw

(11:04 AM) Pw Carey, Compliance Partners, LLC: Big Data is good for some things and not so much for others.....Pw

(11:05 AM) David Boyd (Data Tactics) disconnected.

(11:06 AM) David Boyd (Data Tactics) joined.

(11:07 AM) Pw Carey, Compliance Partners, LLC: There she goes again......no wait....whatever Orit wants we agree with....Respectfully yours, Pw

(11:08 AM) Pw Carey, Compliance Partners, LLC: Ok....sounds good

(11:08 AM) Pw Carey, Compliance Partners, LLC: Re: our meeting time change.....& our best wishes, too.....Pw

(11:09 AM) Karen G: My question was a bit early

(11:09 AM) Karen G: It's about one of the future activities.

(11:09 AM) Karen G: No thanks!

(11:10 AM) Karen G: :)

(11:10 AM) Pw Carey, Compliance Partners, LLC: We would like to work on Section 7 of the Technology Road Map.....thanks...Pw

(11:12 AM) David Boyd (Data Tactics) disconnected.

(11:12 AM) David Boyd (Data Tactics) joined.

(11:12 AM) Yuri Demchenko (UvA) disconnected.

(11:13 AM) Pw Carey, Compliance Partners, LLC: Could Orit type out her question....we're having difficulty hearing her at our end.....thanks...Pw

(11:14 AM) Pw Carey, Compliance Partners, LLC: Patterns......across Big Data Scenarios....oh, ok.....thanks...Pw

(11:15 AM) Pw Carey, Compliance Partners, LLC: Use Case Patterns.....is a topic for further study/research.....good idea....Pw

(11:16 AM) Pw Carey, Compliance Partners, LLC: Good idea Sir....

(11:17 AM) Pw Carey, Compliance Partners, LLC: RDA = Research Data Alliance.....ok...thanks

(11:18 AM) Pw Carey, Compliance Partners, LLC: Generic Use Case Patternas to identify unique scenarios....still sounds like a good idea...Pw

(11:20 AM) Pw Carey, Compliance Partners, LLC: Are we collaborating with CSA BIG DATA...?

(11:20 AM) Pw Carey, Compliance Partners, LLC: Cloud Security Alliance CSA Big Data WG...that is....

(11:21 AM) Bruno Kelpsas (MSFT Contractor) joined.

(11:22 AM) Steven McGee joined.

(11:22 AM) Pw Carey, Compliance Partners, LLC: Pw's email address is: [pwc.pwcarey@gmail.com](mailto:pwc.pwcarey@gmail.com) for follow-up to his review of the Tech Road Map, Section Seven....Respectfully yours, Pw

(11:23 AM) Pw Carey, Compliance Partners, LLC: Next meeting is from 1:00 EDT to 4:00 PM EDT....thank you Orit....Pw

(11:23 AM) Bill Mandrick (Data Tactics) disconnected.

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