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

**NBD-PWD-2015/M0446**

**Source: NBD-PWG**

**Status: Draft**

**Title: Definitions and Taxonomies Subgroup Meeting Agenda for Sept. 29, 2015**

**Author: NBD-PWG Subgroup Co-Chairs**

Meeting logistics

Date/time: Sept. 29, 1:00PM – 3:00PM EDT

Web conferencing tool: <https://global.gotomeeting.com/join/790820565>

Audio: Use your microphone and speakers (VoIP) - a headset is recommended, or, call in using your telephone (US, long distance): +1 (646) 749-3122, access code/meeting ID: 790-820-565

## **Agenda**

1. NBD-PWG V1 documents status: APPROVED! Needs to follow some administration process before release.
2. Plan to schedule joint meeting between NBD-PWG, CPS-PWG, IOT, and NIST Cloud
3. Review last week’s action items:
4. Recapture: Walk through the selected use case using the NIST RA conceptual model:

Thanks to those willing to apply the NIST identified six use cases

(<http://bigdatawg.nist.gov/_uploadfiles/M0399_v3_9386924556.doc>) to NIST RA Conceptual Model (<http://bigdatawg.nist.gov/_uploadfiles/M0437_v1_8937283419.pptx>) for RA Activities View and RA Functional View. The NIST six use cases are:

* 1. UC#1: Fingerprint Matching
  2. UC#2: Human Face Detection from Video (simulated streaming data)
  3. UC#3: Live Twitter Analysis
  4. UC#4: Big data Analytics for Healthcare Data/Health informatics
  5. UC#5: Spatial Big data/Spatial Statistics/Geographic Information Systems
  6. UC#6: Data Warehouse and Data Mining

The following volunteers are willing to walk through the selected use case with the NIST RA conceptual model:

1. Ann Racuya-Robbins: UC#2
2. Korin Reid: UC#4 and UC#6
3. Russell & Shazri: UC#3, UC#4, UC#6

(<http://bigdatawg.nist.gov/_uploadfiles/M0444_v1_3215597900.docx>)

1. Gretchen: UC#3
2. PW: UC#3
3. Robert Reyling and Russell will help Dave to work on the Reference Architecture out from IEEE 42010
4. Tim will help Wo to draft some justification to apply free computing in a cloud from AWS, Microsoft, Google, etc.
5. NBD-PWG Subgroups Meeting Schedules (from July 21 – September 29)

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| **Date** | **Subgroup** | **Topics** | **ISO Deadline** | **Co-Chairs** |
| 07/21 | Security &  Privacy | * How to prepare Vol. 4 for ISO 20547-4 Security & Privacy Fabric * Universal SnP Taxonomies * V2.0 business * Others… | Sept. 1 | Arnab & Mark |
| 07/28 | Ref. Arch.(1) | * How to prepare **ISO 20547-1** Framework & Application Process * Seek contributors | Sept. 1 | David |
| Use Cases & Requirements | * How to prepare Vol. 3 for ISO 20547-2 Use Cases & Derived Requirements | Sept. 1 | Geoffrey and Piyush |
| 08/04 | Definitions & Taxonomies | * Review ISO 20546 WD1 Overview and Vocabulary * V2.0 business * Others… | Oct. 1 | Nancy |
| 08/11 | Standards Roadmap | * How to prepare Vol. 7 for ISO 20547-5 Standards Roadmap * V2.0 business * Others… | Sept. 1 | David |
| 08/18 | Ref. Arch. (2) | * Review and prepare **ISO 20547-1** Framework & Application Process | Sept. 1 | David |
| 08/25 | Ref. Arch. | * Resubmission ISO 20547-3 with brief justifications * V2.0 business * Others… | Oct. 1 | David |
| 09/01 | Security &  Privacy | * Universal SnP Taxonomies * V2.0 business * Others… |  | Arnab & Mark |
| 09/08 | Ref. Arch. | * V2.0 business * Others… |  | David |
| 09/15 | Use Cases & Requirements | * V2.0 business * Others… |  | Geoffrey and Piyush |
| 09/22 | Standards Roadmap | * V2.0 business * Others… |  | David |
| 09/29 | Definitions & Taxonomies | * V2.0 business * Others… |  | Nancy |
| 10/06 | Combined Subgroups | * V2.0 overall direction and status * Others… |  | Wo & subgroup co-chairs |

1. Definitions (Vol. 1) and Taxonomies (Vol. 2) Subgroups – Nancy
   1. ISO 20546 Big Data Overview and Vocabulary status
   2. From Vol. 1 Section 1.5: Future Work on this Volume:

* Defining the different patterns of communications between Big Data resources to better clarify the different approaches being taken;
* Updating Volume 1 taking into account the efforts of other working groups such as International Organization for Standardization (ISO) Joint Technical Committee 1 (JTC 1) and the Transaction Processing Performance Council;
* Improving the discussions of governance and data ownership;
* Developing the Management section;
* Developing the Security and Privacy section; and
* Adding a discussion of the value of data.

Governance Input to Vol. 1 – Ann (<http://bigdatawg.nist.gov/_uploadfiles/M0445_v1_4451142185.docx>)

* 1. From Vol. 2 Section 1.5: Future Work on this Volume:

The Subgroup is continuing to explore the changes in both Management and in Security and Privacy. As changes in the activities within these roles are clarified, the taxonomy will be developed further. In addition, a fuller understanding of Big Data and its technologies should consider the interactions between the characteristics of the data and the desired methods in both technique and time window for performance. These characteristics drive the application and the choice of tools to meet system requirements. Investigation of the interfaces between data characteristics and technologies is a continuing task for the NBD-PWG Definitions and Taxonomy Subgroup and the NBD-PWG Reference Architecture Subgroup. Finally, societal impact issues have not yet been fully explored. There are a number of overarching issues in the implications of Big Data, such as data ownership and data governance, which need more examination. Big Data is a rapidly evolving field, and the initial discussion presented in this volume must be considered a work in progress.

1. Others…