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

**NBD-PWD-2015/M0440**

**Source: NBD-PWG**

**Status: Draft**

**Title: Ref. Arch. Subgroup Meeting Agenda for Sept. 15, 2015**

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

Meeting logistics

Date/time: Sept. 15, 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 Vol. 1 documents status
2. Review last week’s action items:
3. 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: UC#3, UC#4, UC#6
4. Gretchen: UC#3
5. PW: UC#3
6. Robert Reyling and Russell will help Dave to work on the Reference Architecture out from IEEE 42010
7. Tim will help Wo to draft some justification to apply free computing in a cloud from AWS, Microsoft, Google, etc.
8. 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 |

1. Use Cases & Requirements Subgroup – Geoffrey & Piyush
   1. ISO 20547-2 telecon rescheduled to **Sept. 24**, 5:00PM – 7:00PM EDT
   2. From Vol. 3 Section 1.5: Future Work on this Volume

* Identify general features or patterns and a classification of use cases by these features.
* Draw on the use case classification to suggest classes of software models and system architectures.
* A more detailed analysis of reference architecture based on sample codes that are being implemented in a university class. [[1]](#endnote-1)
* Collect benchmarks that capture the “essence” of individual use cases.
* Additional work may arise from these or other NBD-PWG activities. Other future work may include collection and classification of additional use cases in areas that would benefit from additional entries, such as Government Operations, Commercial, Internet of Things, and Energy. Additional information on current or new use cases may become available, including associated figures. In future use cases, more quantitative specifications could be made, including more precise and uniform recording of data volume. In addition, further requirements analysis can be performed now that the reference architecture is more mature.

1. Others…

1. Geoffrey Fox. “INFO 590 Indiana University Online Class: Big Data Open Source Software and Projects,” *Indiana University,* 2014 [accessed December 11, 2014], <http://bigdataopensourceprojects.soic.indiana.edu/>. [↑](#endnote-ref-1)