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

**NBD-PWD-2015/M0469**

**Source: NBD-PWG**

**Status: Draft**

**Title: NBD-PWG Meeting Agenda for Nov. 17, 2015**

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

Meeting logistics

Date/time: Nov. 17, 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. Joint meeting status between NIST NBD-PWG, CPS-PWG, IOT, Global Cities, and Cloud status
   1. More updates
2. Sample of white papers for best practices

<https://nccoe.nist.gov/library>

(Need to come up with a general template to customize our needs – based on our NBD Reference Architecture)

1. Cognitive Intelligence for Big Data – William Miller
2. Use case status report:
   1. UC#6: Data Warehouse and Data Mining – Korin Reid
   2. UC#4: Big data Analytics for Healthcare – Ian Gorton from his students
   3. Others…
3. Review contributions
   1. N0459 – SP1500-1 High Level Summary and Comments ARR 20151101
   2. N0460 – M0392\_v1\_3022325181 SP1500-1 ARR Annotated in Yellow
   3. N0462 – Hadoop 6 dataset project outline, Russell
   4. N0466 – Use\_case\_6.a\_DW\_w\_HBase, Russell
   5. N0467 – Use\_case\_6.b\_mining\_w\_Weka, Russell
   6. N0468 – Hadoop\_hardware,\_software,\_distributions\_draft, Russell
4. Others ??

**NBD-PWG V2 Activities, Deliverables, and Timelines**

**[TR – Technical Report, IS – International Standard, ED – Editors Draft, WD – Working Draft]**

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| --- | --- | --- | --- | --- | --- |
| **Activities**  **NBD**  **Documents** | **V1**  **RA**  **Components**  **[09/16/15]** | **V2**  **RA**  **Interfaces**  **[06/15/16]** | **White Paper**  **RA**  **Best Practices**  **[ongoing]** | **V3**  **RA**  **Validation**  **[03/15/17]** | **ISO/IEC**  **JTC 1/WG9**  **[12/31/17]** |
| **Overview &**  **Vision** | -- | -- | **Based from the NIST six use cases (M0399)**  Activities and Functional exercise (M0437)   1. UC#1: Fingerprint Matching 2. UC#2: Human Face Detection from Video   Ann, [date]   1. UC#3: Live Twitter Analysis   Russell [11/13/15]  PW, Gretchen, [date]   1. UC#4: Big data Analytics for Healthcare   Russell, Mark [10/19/15]   1. UC#5: Spatial Big data/Spatial Statistics/GIS 2. UC#6: Data Warehouse and Data Mining   Russell, Sharaf [10/16/15]  Korin, Ann, [date]   1. Big Data for Security   Sharaf [date]   1. Security and Privacy   Cavan, Gregory, Mark, Arnab [date]   1. Others…   Implementation exercise   1. UC#1: Fingerprint Matching   Geoffrey, [date]   1. UC#2: Human Face Detection from Video   Geoffrey, [date]   1. UC#3: Live Twitter Analysis   Geoffrey, [date]   1. UC#4: Big data Analytics for Healthcare   Wo, Nancy, TC69, [12/30/15]  Ian and his students, [date]  Geoffrey, [date]   1. UC#5: Spatial Big data/Spatial Statistics/GIS   Geoffrey, [date]   1. UC#6: Data Warehouse and Data Mining   Geoffrey, [date]   1. Stock market   Geoffrey, [date]   1. Others… | -- | ISO 20547-1 [TR]  Framework & Process  1st WD: 12/04/15  1st ED: 10/01/15 |
| **Vol. 1**  **Definitions** | Done | 1. Governance, ownership   Ann, Jim, [date]   1. Provenance, curation   Jim [date]   1. Others… | Wait for V2 | ISO 20546 [IS]  Overview &  Vocabulary  2nd WD – 12/04/15  1st WD – 07/20/15  1st ED – 04/17/15 |
| **Vol. 2**  **Taxonomies** | Done | 1. Harmonize with RA components   Nancy, [date]   1. Others… | Wait for V2 | -- |
| **Vol. 3**  **Use Cases &**  **Requirements** | Done | 1. Seek use cases using new UC template   Geoffrey, Piyush, [date]   1. Others… | Wait for V2 | ISO 20547-2 [TR]  UC & Derived Reqs.  1st WD: 12/04/15  1st ED: 10/01/15 |
| **Vol. 4**  **Security &**  **Privacy**  **Fabric** | Done | 1. Universal SnP Taxonomy   Arnab, Mark, [date]   1. Explore NIST IR 8062,   Mark, [date]   1. Others… | Wait for V2 | ISO 20547-4 [IS]  -- Same Title --  1st WD: 12/04/15  1st ED: 10/01/15 |
| **Vol. 5**  **White Paper**  **Survey** | Done |  | -- | -- |
| Wait for V2 | ISO 20547-3 [IS]  -- Same Title --  1st WD: 12/04/15  1st ED: 10/01/15 |
| **Vol. 6**  **Reference**  **Architecture** |
| Done | 1. Enhance RA components description   Dave, [date]   1. Establish preliminary RA interfaces 2. Dave, [date] 3. Others… |
| **Vol. 7**  **Standards**  **Roadmap** | Done | 1. Extend related SDOs listing   Russell, [02/14/16]   1. Enhance gap analysis how to enable RA   Russell, [04/12/16]   1. Others… | Wait for V2 | ISO 20547-5 [TS]  -- Same Title --  1st WD: 12/04/15  1st ED: 10/01/15 |