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

**NBD-PWD-2016/M0490**

**Source:    NBD-PWG**

**Status:     Draft**

**Title:       NBD-PWG Meeting Agenda for Jan. 19, 2016**

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

Meeting logistics

Date/time: Jan. 19, 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. ISO/IEC JTC 1/WG on Big Data – next meeting March 8 – 11, 2016, Dublin, Ireland
   1. Big Data workshop March 7, 2016: how standards and industry can collaborate (ex. PPP)
   2. Contribution deadline Feb. 21 through INCITS Big Data TC
   3. Documents are available for review:
      1. ISO/IEC 20546 2nd Working Draft – CD at March meeting?? Nancy

(<http://isotc.iso.org/livelink/livelink?func=ll&objId=17501229&objAction=Open&nexturl=%2Flivelink%2Flivelink%3Ffunc%3Dll%26objId%3D17270859%26objAction%3Dbrowse%26viewType%3D1>)

* + 1. ISO/IEC TR 20547-2 1st Working Draft (available soon) – seek UC template
  1. Other documents (WG 9 editors’ drafts – internal to WG 9 only; work with INCITS BD members):
     1. ISO/IEC 20547-1 Framework and Application Process
     2. ISO/IEC 20547-3 Ref. Arch.
     3. ISO/IEC 20547-4 Security & Privacy Fabric
     4. ISO/IEC 20547-5 Standards Roadmap

1. Planning face-to-face meeting at NIST for NBD-PWG, Sept. 20 - 22, 2016? NIST Cloud, 9/13-15
   1. Preliminary assessment before going forward (two months’ preparation):
      1. At least one white paper documentation with implementation
      2. White paper template available
      3. Identify early adopters from academic, industry, and government
         1. Document using white paper template with small-scale implementation
      4. Clear NBD-PWG V2 direction on tasks and deliverables

[subgroup co-chairs need to identify tasks and deliverables from Section 1.5]

[to share vision on V2 and beyond; identify focus areas for possible contributions]

* + - 1. Vol.1 Big Data Definitions
         1. Big Data Quality white paper
      2. Vol. 2 Big Data Taxonomies
      3. Vol. 3 Big Data UC & Requirements
         1. Collect new use cases with new UC template
      4. Vol. 4 Security & Privacy
         1. Unified SnP Taxonomies
         2. Privacy White Paper
      5. Vol. 5 Big Data Arch. White Paper (no activity)
      6. Vol. 6 Big Data Architecture with Preliminary Interfaces
         1. Set of white papers with possible implementations
         2. Identify various views for the RA
      7. Vol. 7 Big Data Standards Roadmap
    1. Tentative program agenda available
    2. Others….
    3. 03/20: NBD-PWG f2f workshop announcement
  1. Agenda (draft ideas, not in any priority order)
     1. Showcase white papers with demonstrations (if any)
     2. Present V2 draft documents (focus on newly added/enhanced definitions, taxonomies, UC & requirements, SnP, RA interface, Standards Roadmap, etc.)
        1. Subgroup co-chairs present respective volume document
        2. Breakout discussion per volume document (as needed)
     3. Invite speakers
        1. From academic, industry, and government
        2. From potential collaborators/adopters
        3. Etc.
  2. Preparation (things need to be in place)
     1. More detail preparation steps/deadlines would be proposed soon
     2. White paper template available (similar to NCCoE white paper: <https://nccoe.nist.gov/library>
     3. Written use case white papers available
        1. Running demos would be available on NIST hybrid cloud (desirable)
  3. Others…

1. Review contributions
   1. M0484 - Volume 1 Version 2 Topics to work on, Nancy and Ann
      1. M0459 – SP1500-1 High Level Summary and Comments ARR 20151101, Nancy, Ann
      2. M0460 – M0392\_v1\_3022325181 SP1500-1 ARR Annotated in Yellow, Nancy, Ann
   2. M0387 – SnP Unified Taxonomies, Arnab, Mark
   3. M0473 – Privacy in Big Data systems (any updates), Cavan Capps and team
   4. M434\_v2, M466\_v2 (any updates), Russell
2. Use case status report:
   1. UC#6: Data Warehouse and Data Mining – Korin Reid
   2. Others…
3. 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 |  |