**NIST Big Data Working Group (NBD-WD)**

**NBD-WD-2013/M0022**

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| **Source:** | Technology Roadmap Subgroup |
| **Status:** | Draft |
| **Title:** | Technology Roadmap Subgroup Charter |
| **Date:** | August 21, 2013 |
| **Author(s):** | Carl Buffington (USDA), Dan McClary (Oracle), David Boyd (Data Tactic) |

**CHARTER for**

**Technology Roadmap Subgroup of**

**NIST Big Data Working Group (NBD-WG)**

**Background**

NIST is leading the development of a **Big Data Technology Roadmap.** This roadmap will define and prioritize requirements for *interoperability*, *portability*, *reusability*, and *extensibility* for big data analytic techniques and technology infrastructure in order to support secure and effective adoption of Big Data. To help develop the ideas in the **Big Data Technology Roadmap**, NIST is creating the Public Working Group for Big Data.

The focus of the NIST Big Data Public Working Group (NBD-PWG) is to form a community of interest from industry, academia, and government, with the goal of developing a consensus definitions, taxonomies, reference architectures, and technology roadmap. The aim is to create vendor-neutral, technology and infrastructure agnostic deliverables to enable Big Data stakeholders to pick-and-choose best analytics tools for their processing and visualization requirements on the most suitable computing platform and cluster while allowing value-added from Big Data service providers.

**Scope**

The focus of the NBD-PWG Technology Roadmap Subgroup is to form a community of interest from industry, academia, and government, with the goal of developing a consensus vision with recommendations on how Big Data should move forward by performing a good gap analysis through the materials gathered from all other NBD subgroups. This includes setting standardization and adoption priorities through an understanding of what standards are available or under development as part of the recommendations.

**Tasks**

* Gather input from NBD subgroups and study the taxonomies for the actors’ roles and responsibility, use cases and requirements, and secure reference architecture.
* Gain understanding of what standards are available or under development for Big Data
* Perform a thorough gap analysis and document the findings
* Identify what possible barriers may delay or prevent adoption of Big Data
* Document vision and recommendations

**Deliverables**

1. Produce a working draft for Big Data Technology Roadmap Document

**Target Date**

The goal for completion of INITIAL DRAFTs is Friday, September 27, 2013. Further milestones will be developed once the WG has initiated its regular meetings.

**Co-Chairs**

Carl Buffington (Lead), USDA

Dan McClary, Oracle

David Boyd, Data Tactic

**Meeting Frequency**

It is anticipated that there will be weekly 2-hour meetings by telecon on Fridays from 11:00AM -1:00PM ET.

**Membership**

Participation in the WG and Subgroups are open to all interested parties. There are no membership fees.

**Coordination/Interaction**

This Subgroup will work closely with NBD-WG and with other big data related standards and best practices from industry, academia, and government.

**Standing Rules**

All information exchanged within the WG/Subgroup will be non-proprietary.

All information exchanged within the WG/Subgroup will contain non-PII materials.

WG/Subgroup members should assume that all materials exchanged will be made public.

Documents will be publicly accessible on the NIST Big Data Portal.

**Outreach**

WG results will be available to all stakeholders in the commercial, academic, and government sectors.