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

**NBD-WD-2013/M0230v3**

|  |  |
| --- | --- |
| **Source:** | Reference Architecture Subgroup |
| **Status:** | Work in progress |
| **Title:** | Table of open issues with their resolution |
| **Date:** | September 22, 2013 |
| **Author(s):** | Orit Levin (Microsoft) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Abstract / Description | Alternative Approaches | Resolution | Notes |
| 1 | Data Sources role | 1. Data Sources are included in “Data Manager”, which uses the “services” provided by the “transformation” to drive the system.  2. Data Sources are a stand-alone Level 1 component, which provides “data services” to other RA components. | RESOLVED 9/5/13  Alternative #2 | Blocking the progress |
| 2 | Terminology and Taxonomy used for the Level 1 and Level 2 RA blocks | 1. Collector, Manager, Producer, Consumer, etc.  2. Collection, Management, Sources, Use, etc. | RESOLVED 9/5/13  Alternative #1 | Relates to the “actors” vs. “roles” vs. “activities” open issue in Def&Tax subgroup |
| 3 | Granularity of interfaces shown in terms of data flow and tools flows | 1. Shown together by a single arrow  2. Shown separately | RESOLVED 9/5/13  Alternative #2 |  |
| 4 | Outline | 1. Keep the description of “service abstractions” in a dedicated chapter that is separate from the main roles’ blocks.  2. Include the description of service abstractions under the role responsible for providing this abstracted interface. | 9/12/13  Start with Alternative #2 having “service abstractions” as subsections; Reconsider rearrangement after the text is ready |  |
| 5 | Placement of Management and “Security & Privacy” blocks | 1. Inside the “Capabilities Provider” block  2. Inside the “System Manager/Vertical Orchestrator” block  3. Each block (Capabilities, Security&Privacy, Management) is stand alone | 9/12/13  1. Management is a stand-alone vertical bar on the right side  2. S&P is a stand-alone vertical bar on the right side and this will be discussed and reconsidered based on the discussion on the S&P subgroup next call  9/19/13  For Security&Privacy: show as one-color fabrics encompassing all RA components |  |
| 6 | “Management” block resolution | 1. Management only, no additional details on the figure  2. Management block contains System Management and Lifecycle Management sub-blocks  3. System Management and Lifecycle Management blocks are stand alone | 9/12/13  Start with Alt. #1 and reconsider based on potential contributions with text. | Awaiting contribution from Quyen Nguyen [quyen.nguyen@nara.gov](mailto:quyen.nguyen@nara.gov) on Lifecycle Management. |
| 7 | “Capabilities’” sub-block’ vocabulary | 1. M0231.v1 slide 7 suggests to abstract the internal sub-components in the CC RA style  2. Voices from the Roadmap subgroup: specific proposal are needed  3. M0241.v1 suggest to coordinate with the latest ISO-ITU cloud RA | 9/12/13  The approach was presented; discussion will continue  9/19/13  Call for TEXT contributions towards the document. Based on the resultant integrated text, the picture will be adjusted accordingly. | Targeted contributions / Input documents are needed. They must include the text, not just graphical representation |
| 8 | Mapping Of Use Cases to RA in order to illustrate the RA with the goal to improve the RA readability to help the readers | 1. Do nothing  2. Choose a number of simple and/or representative Use Cases, map to RA and introduce  a. An Appendix to RA *or*  b. A White Paper | 9/12/13  Wo suggested that simple generic use cases be mapped on the RA subject and then discussed  9/19/13  Call for mapping of generic use cases was issued again. | This topic has been repeatedly brought up by different subgroups’ participants |
| 9 | Color scheme for blocks and arrows | For arrows: why the arrows are different in color? Should we use a single color?  For blocks: Should the color represent “roles”, “activities”, “etc.”?  Overall: Should the color represent system considerations (e.g., emergency, readiness, security, etc.) | 9/19/13  Show all transformation sub-blocks with one color | Specific proposals are welcome for discussion |