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

**NBD-PWD-2015/M0506**

**Source: NBD-PWG**

**Status: Draft**

**Title: Web chat from Meeting of Feb. 23, 2016**

**Chat Log D:\\_wo\1DMG\2015\\_BigDataWG\Docs\ChatLog 2016\_02\_23 14\_36.rtf**

**K. Eric Harper (to Organizer(s) Only)**: 1:02 PM: Can you make me the presenter?

**Russell Reinsch (to Organizer(s) Only)**: 1:05 PM: Notetaking: Strategy for V2 by March 20, then Sept. workshop. Contributors,

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 1:09 PM: Dear Sir: We have a schedule conflict.....screen looks good......we'll have to vanish shortly....Please sign us up for any grunt tasks requiring; reviews, editing & comments....the hard part is the initial creative thoughts processess.....

**Russell Reinsch (to Organizer(s) Only)**: 1:10 PM: Eric: IIC tech wg co-chair. Diff to see what is driving, who is to gain. iiconsortium.org. # of working groups include testbeds. several task groups. functional website.

**Bob Marcus (to Everyone)**: 1:11 PM: Is there future collaboration planned betwen the IIC and the Cloud Standards Customer Council which has just released its Customer Cloud Architecture for IoT?

**Russell Reinsch (to Organizer(s) Only)**: 1:12 PM: Industrial analytics as diff from BI. Innov task group for external...

**Bob Marcus (to Everyone)**: 1:17 PM: The IIC Reference Architecture and many other publications are available at http://www.slideshare.net/bobmarcus/downloadable-publications-on-cps-cloud-and-big-data

**Russell Reinsch (to Organizer(s) Only)**: 1:17 PM: RA: several viewpoints, and cross ~domain

**Russell Reinsch (to Organizer(s) Only)**: 1:18 PM: IOC? morphed into OCF. GE wants to advance standards. Interoperability task group.

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 1:18 PM: This is good....our specific interest is in counter acting financial fraud via a tool....which leads us to include 'Industrial Psychopathy'.....we do see a connection here and look forward to helping it in any way we can.....Good presentation, too.....Pw

**Ann Racuya-Robbins (to Everyone)**: 1:21 PM: Is IIC concerned about or involved with privacy issues?

**Russell Reinsch (to Organizer(s) Only)**: 1:23 PM: IOC not deep in analytics yet. BD as super or subset of indust internet. industrial internet refe arch: roles, entity abstraction, interesting 3 tier architecture.

**Mark Underwood (to Everyone)**: 1:24 PM: Russell: Some orchestration terms flew by there

**Russell Reinsch (to Everyone)**: 1:24 PM: And arch detail

**Ann Racuya-Robbins (to Everyone)**: 1:26 PM: Why is it called Industrial? Erik can you say a bit more about that perspective? What Industry?

**Ann Racuya-Robbins (to Everyone)**: 1:26 PM: Or what makes it industrial?

**Russell Reinsch (to Organizer(s) Only)**: 1:29 PM: Standard interfaces. Pipeline could be insulated from the user. PDF has brekdown of advanced analytics. Industrial = anything not consumer IT

**Bob Marcus (to Everyone)**: 1:30 PM: A discussion between the IIC and the NIST CPS Working Group would also be valuable.

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 1:31 PM: Does this effort cover/address the Financial Industry Community....?

**Russell Reinsch (to Everyone)**: 1:33 PM: I do not normally see descriptive analysis such as reporting, considered to be advanced

**Russell Reinsch (to Organizer(s) Only)**: 1:37 PM: Involved w CPS already. List of liaisons is publicly published. Ck March 17 event.

**Bob Marcus (to Everyone)**: 1:40 PM: The Cloud Standards Customer Council has a Mobile Architecture at http://www.cloud-council.org/deliverables/CSCC-Cloud-Customer-Architecture-for-Mobile.pdf

**Mark Underwood (to Everyone)**: 1:41 PM: Eric: thx . (I was having trouble parsing M2M vs. end-to-end in your explanation)

**Tim Zimmerlin (to Everyone)**: 1:42 PM: M2M means machine to machine communications.

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 1:43 PM: Dear Sir: Will do.....we'lll keep an interest in the IIC initative.....Thanks....

**Mark Underwood (to Everyone)**: 1:43 PM: Tim (I know) :)

**Mark Underwood (to Everyone)**: 1:43 PM: And no IP spoofing people! :)

**Bob Marcus (to Everyone)**: 1:43 PM: Ann's concerns about IoT consumer privacy are well taken. People are buying toys and products that connect to the Internet and can be hacked to provide continuous monitoring

**Russell Reinsch (to Organizer(s) Only)**: 1:44 PM: Bob: 3 things converging: cloud, IoT, [z].

**Bob Marcus (to Everyone)**: 1:49 PM: Hierarchical analytic processing (from sensors to Cloud) is the next challenge for really Big Data and should be addresses in V2

**Cavan (to Everyone)**: 1:51 PM: I think that making sure that messages between machines is more an issue of IT security than privacy. If the messages are secure and go to the right people, not in plain text(securely encrypted) and not subject to breaking authentication, it should be "safe". Who sees it is another issue. Privacy is more about maintaining anonymity as a result, more than "secure" message passing. (secure message passing may be part of the means to insure anonymity.)

**Russell Reinsch (to Organizer(s) Only)**: 1:52 PM: Frank: on non-tech barriers, considering OS and apache, expensive license cost is important. INCITS member. this group can talk about this stuff and others cannot.

**Russell Reinsch (to Organizer(s) Only)**: 1:56 PM: Discovered somet important.

**Mark Underwood (to Everyone)**: 1:57 PM: Dave, you're cutting out

**David W. Boyd (to Everyone)**: 1:57 PM: Ok I will type

**David W. Boyd (to Everyone)**: 1:58 PM: Besides good job, the barriers discussion was lacking in V1. I think this is a good start, and the next step ought to be describing methods to overcome the barriers.

**Wo Chang (to Everyone)**: 1:59 PM: Agree, thanks David!

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:00 PM: Dear Cavan: IT and security is almost an oxymoron.....due to sooooo many technical variables....human resource capabilites, human nature.....stress applied from above and the inherent weaknesses within HW & SW....not a too complex problem addressing security, just one that needs to be aggregated-separated-analyzed-and then re-constituted.....just our thoughts....always open to criticism....Pw

**Tim Zimmerlin (to Everyone)**: 2:02 PM: Frank, you have only seen one type of taxonomy. Informally, AI folks call these "ISA" taxonomies…cannot be graphs due to acyclic structure.

**Tim Zimmerlin (to Everyone)**: 2:03 PM: There are many other types used in semantic database theory.

**Cavan (to Everyone)**: 2:03 PM: the inherent contradictions in IT .. and Security... keep me employed, to say nothing of adding privacy into the mix

**Russell Reinsch (to Organizer(s) Only)**: 2:03 PM: Taxon: concept system that is hierarchical. Classify things. What is ours classifying.

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:03 PM: Couldn't we break the Mind Map into Folios One, Two or Three and the Title would link them....No?

**Arnab Roy (Private)**: 2:06 PM: I am not getting connected to voice the last 5 mins. Will try again. May have to drop off if it doesn't work. Sorry Wo.

**Russell Reinsch (to Organizer(s) Only)**: 2:08 PM: Left right irrelevant. Work to do on the mindmap. Dan: cannot make heads or tails of the map. Funnel me in to the problem that is trying to be solved.

**Mark Underwood (to Everyone)**: 2:08 PM: This discussion harkens to I think Bob's ongoing concern about usability

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:09 PM: We'll be happy to help the previous speaker in understanding the purpose of the MindMap.....Respectfully yours, Pw

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:10 PM: For example we always viewed the MindMap as an initial effort at providing a number of topics for consideration, such as....'"but have you thought of this....?" and promote 'mind experiments'......too...

**Ann Racuya-Robbins (to Everyone)**: 2:12 PM: Where does the Orchestrator get authority?

**Tim Zimmerlin (to Everyone)**: 2:12 PM: Orchestration is control processes, including SW and admins and operators. E.g., cloud orchestration of resources elastically via Mesos/Kubernetes.

**Tim Zimmerlin (to Everyone)**: 2:13 PM: Practically, orchestration must manage work queues, with work priorities, including optimization of resource usage.

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:14 PM: Dear Ann & Tim: From our perspective...the Orchestrator always got it's authority from Amazon....as in if anything goes south, it's a shared responsibility with Amazon being First, among equals.....

**Tim Zimmerlin (to Everyone)**: 2:15 PM: Orchestration must recover from failures.

**Russell Reinsch (to Organizer(s) Only)**: 2:19 PM: Dave: is Maven / devops supposed to be in the RA. Poss add new sub role.

**Russell Reinsch (to Everyone)**: 2:21 PM: Source control, SDK, IDE, dev process, device mgmt.

**Bob Marcus (to Everyone)**: 2:22 PM: Russell: Are your mappings of Use Cases to the RA available? Thanks.

**Russell Reinsch (to Everyone)**: 2:23 PM: Yes. Bob,

**Russell Reinsch (to Everyone)**: 2:24 PM: Are you referring to this?

**Russell Reinsch (to Everyone)**: 2:24 PM: This one?

**Russell Reinsch (to Organizer(s) Only)**: 2:28 PM: Nancy: re-institute the glossary?

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:31 PM: For some reason....we don't feel left out......Go figure....In closing, another quite good meeting.....Thanks....Pw

**Pw Carey, Compliance Partners, LLC (to Everyone)**: 2:36 PM: Thanks.....