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

**NBD-PWD-2016/M0517**

**Source: NBD-PWG**

**Status: Draft**

**Title: Web chat from Meeting of April 5, 2016**

**Chat Log D:\\_wo\1DMG\2015\\_BigDataWG\Docs\ChatLog 2016\_04\_05 14\_05.rtf**

**Russell Reinsch (to Everyone)**: 1:00 PM: brb

**Mark Underwood (to Everyone)**: 1:06 PM: https://en.wikipedia.org/wiki/Conflict-free\_replicated\_data\_type

**Tim Zimmerlin (to Everyone)**: 1:08 PM: Geoffrey's link to projects: http://bigdatastandards.com/research-projects/big-data-projects-at-indiana-university/

**Lee Anne Davies (to Everyone)**: 1:11 PM: Wo - FYI - I have to leave in 10 minutes. You mentioned me talking about my 'consent' doc

**Tim Zimmerlin (to Everyone)**: 1:21 PM: How many things does "consent" touch? Data? Stakeholders? Actions? Actors described in data? How many actors must consent? Is there an expiration date on consent? Is there a limit on number of actions? How about sharing?

**Tim Zimmerlin (to Everyone)**: 1:23 PM: Where is consent stored? In which dataset, as metadata?

**Mark Underwood (to Everyone)**: 1:23 PM: What were Wo's proposed dates again?

**Russell Reinsch (to Everyone)**: 1:23 PM: Dec something... let me look

**Tim Zimmerlin (to Everyone)**: 1:23 PM: Dec 14-16

**Russell Reinsch (to Everyone)**: 1:24 PM: confirmed

**Mark Underwood (to Everyone)**: 1:24 PM: Tim - thx

**Russell Reinsch (to Organizer(s) Only)**: 1:25 PM: L. Davies discussing consent as separate from privacy, etc. Frank: not inherently big data.

**Wo Chang (to Everyone)**: 1:25 PM: The new workshop dates: Dec. 14 - 16.

**NANCY GRADY (to Everyone)**: 1:26 PM: dates work for me

**David Boyd (to Everyone)**: 1:27 PM: Should work for me.

**Wo Chang (to Russell Reinsch)**: 1:27 PM: understand your point.

**Wo Chang (to Russell Reinsch)**: 1:27 PM: thanks Nancy.

**Russell Reinsch (to Organizer(s) Only)**: 1:28 PM: [Just taking notes here Wo [lol] / meeting minutes]

**Wo Chang (to NANCY GRADY)**: 1:28 PM: did you see my earlier email about William's talk for the IoT? Are you available for that?

**Wo Chang (to Russell Reinsch)**: 1:28 PM: Great, thanks Russuell!

**Lee Anne Davies (to Everyone)**: 1:30 PM: Sorry I have to run and am so sorry to miss this discussion. Big data has repositioned the meaning of consent.

**Tim Zimmerlin (to Everyone)**: 1:30 PM: Thx, Lee Anne.

**Mark Underwood (to Everyone)**: 1:31 PM: Works for me

**Wo Chang (to Russell Reinsch)**: 1:31 PM: Lee Anne: ok and thanks. I will circulate your document to email reflector for further discussion next week. Thanks.

**Wo Chang (to Everyone)**: 1:31 PM: Lee Anne: ok and thanks. I will circulate your document to email reflector for further discussion next week. Thanks.

**Mark Underwood (to Everyone)**: 1:32 PM: Thanks Anne

**Mark Underwood (to Everyone)**: 1:32 PM: Lee Anne

**Russell Reinsch (to Organizer(s) Only)**: 1:32 PM: Nancy: there is in fact a change now in the consent cases where datasets can be combined. Focus the issue on that. Frank: but we have combined data before.

**NANCY GRADY (Private)**: 1:32 PM: yes, sorry I didn't respond. I will not be in town then.

**Tim Zimmerlin (to Everyone)**: 1:36 PM: Big data has no definition because big data is a marketing buzzword forever more.

**Russell Reinsch (to Organizer(s) Only)**: 1:36 PM: Dave: typical site registration or product registration -> assoc w consent... now, is it okay to be used in a different way than the original consent permitted. aka analytics types / how far does the consent go.

**Mark Underwood (to Everyone)**: 1:36 PM: In the V1 doc we argue that it becomes big data when it passes across enterprise boundaries - it begs the Q whether it's "Big" but that this is a feature of the problem space. In the FTC cnference earlier this year, they worried about consent as part of their big data purview, so it does seem to be relevant to the regulators

**Tim Zimmerlin (to Everyone)**: 1:36 PM: Vertical application domains are very real.

**Mark Underwood (to Everyone)**: 1:37 PM: Tim - Back to your other topic - what was the domain specific context?

**Russell Reinsch (to Organizer(s) Only)**: 1:37 PM: So what types of Agg + analysis can be done now that couldnt be done before.

**Tim Zimmerlin (to Everyone)**: 1:37 PM: Concerns, including cross cutting concerns like mgt and SnP, are necessarily in scope.

**Russell Reinsch (to Organizer(s) Only)**: 1:38 PM: Mark: relevance [consent]. Some of this was addressed in v.1.

**Tim Zimmerlin (to Everyone)**: 1:39 PM: Mark, application domains exist on their own with accepted practices and legal frameworks. Privacy and consent are applied semi independently within each domain and country.

**David Boyd (to Everyone)**: 1:39 PM: Concur with Mark

**David Boyd (to Everyone)**: 1:39 PM: This would be a good paper for the workshop.

**Russell Reinsch (to Organizer(s) Only)**: 1:39 PM: R: good to separate it even tho it is under the SnP umbrella.

**Russell Reinsch (to Everyone)**: 1:40 PM: brb

**Mark Underwood (to Everyone)**: 1:40 PM: Tim - DSL is a bit of a side technology, but potentially very useful way to integrate SnP and other concepts that are particular to a domain - e.g., whether manufacturing is discrete or continuous is domain-specific

**Russell Reinsch (to Organizer(s) Only)**: 1:43 PM: W. Miller: demand response -> transactive energy. Switch endpoints on/off in smart grid. = energy-demand, and response. In EU, endpoint itself makes the decision / giving consent; not the head unit / utility company.

**Tim Zimmerlin (to Everyone)**: 1:46 PM: Mark, Spark supports custom DSLs.

**Mark Underwood (to Everyone)**: 1:46 PM: Also - Tim, want to capture your thoughts about the event log as an organizing principle / use case - Interestingly, brings to mind various issues with abstractions to be used for events

**Tim Zimmerlin (to Everyone)**: 1:48 PM: Mark, please follow links to crdt and "eventual consistency" first. I only reference public resources.

**Mark Underwood (to Everyone)**: 1:48 PM: William: discussed utility demand-response data flow as potentially connected to privacy + big data issues - Perhaps a new use case

**Mark Underwood (to Everyone)**: 1:51 PM: There is a Wikipedia page on the OpenADR (Automated Demand Response) project https://en.wikipedia.org/wiki/Open\_Automated\_Demand\_Response

**Russell Reinsch (to Organizer(s) Only)**: 1:51 PM: Tim: CRDT include eventual consistency possibly a way around the 2/3 CAP constraint.

**Frank Farance (to Everyone)**: 1:52 PM: William, get in touch with me: frank@farance.com, work:+ 1 212 486 4700, cell: +1 917 751 2900

**Russell Reinsch (to Organizer(s) Only)**: 1:52 PM: Russell: Looking at some patterns in M0311; and doing some research into Solr as it applies to big data access.

**Tim Zimmerlin (to Everyone)**: 1:53 PM: Electric utilities bid for external power in marketplaces: daily and second to second.

**Tim Zimmerlin (to Everyone)**: 1:54 PM: Smart electric grids can make a lot of money.

**Tim Zimmerlin (to Everyone)**: 1:55 PM: Plans are being drawn up for national transmission grids, unifying the big 3 US grids of today.

**Russell Reinsch (to Organizer(s) Only)**: 1:55 PM: Perhaps a request-response interface diagram in M0311 has some crosswalk to energy demand-response interfacing.

**Tim Zimmerlin (to Everyone)**: 1:56 PM: Those plans will be necessary as wind and solar power increase.

**Russell Reinsch (to Everyone)**: 1:57 PM: Tim: fascinating analysis of Enron in energy marketplace in Rationality in Economics by Vernon Smith... nobel prize winner

**Tim Zimmerlin (to Everyone)**: 1:58 PM: Russell, I read the IEEE Spectrum article explaining Enron.

**Russell Reinsch (to Everyone)**: 1:59 PM: hang on

**Russell Reinsch (to Everyone)**: 2:00 PM: Sorry Ive messed up a setting

**Russell Reinsch (to Everyone)**: 2:00 PM: last week. stuck I guess

**Russell Reinsch (to Everyone)**: 2:00 PM: Nxt week

**William MIller (to Everyone)**: 2:01 PM: http://www.iotday.us

**William MIller (to Everyone)**: 2:02 PM: please join the online webinar this Friday

**Tim Zimmerlin (to Everyone)**: 2:04 PM: Bob, good work. I think you need to address the network as key to IoE.

**Tim Zimmerlin (to Everyone)**: 2:04 PM: The 5G wireless emerging standard is key.

**Tim Zimmerlin (to Everyone)**: 2:05 PM: with MIMO and low power and private cells.