

<p>ISO/IEC JTC 1/WG 9 Big Data Convenorship: ANSI (United States)</p>
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**Document type:** Meeting Report

**Title:** N0251 Meeting Report of 12-14 July 2016 5th JTC 1/WG 9 Meeting

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**INTERNATIONAL ORGANISATION FOR STANDARDISATION  
ORGANISATION INTERNATIONALE DE NORMALISATION  
ISO/IEC JTC 1/WG 9 Working Group on Big Data (WGBD)**

**ISO/IEC JTC 1 WGBD N0251  
Beijing, CN – August 2016**

**Source:** Wo Chang, Convenor

**Title:** Report of 5th WGBD Meeting – 12 - 14 July 2016 – Beijing, China

**Date:** 18 August 2016

**Meeting Dates:** 12 – 14 July, 2016

**Venue Information**

Meeting Venue: Room 10-316 east of the main building, school of software,

Tsinghua University Hai Dian, China

Phone: +86-10-62795393

<http://www.tsinghua.edu.cn>

(Venue: East Hall; go front gate → 2nd building left, Campus Center→enter, turn right)

**Tentative Meeting Schedule (coffee breaks and lunch time may change)**

<b>JTC 1/WG 9 Meeting</b>	<b>12 July 2016 (Tuesday)</b>	<b>13 July 2016 (Wednesday)</b>	<b>14 July 2016 (Thursday)</b>	<b>15 July 2016 (Friday)</b>
9:00 AM – ~12:30PM	Agenda Items: 1 - 5	Agenda Item: 6 Continuation	Agenda Item: 6 Continuation	Agenda Items: 7 & 8
10:30AM – 11:00AM	Break			
12:30PM – 2:00PM	Lunch			
2:00PM – ~5:00PM (4:00 PM on Friday)	Agenda Items: 6	Agenda Item: 6 Continuation	Agenda Item: 6 Continuation	Agenda Items: 9 & 10
3:00PM – 3:30PM	Break			

**1 Opening**

**(9:00 start on 12 July)**

Ms. Lili Yang, China WG 9 Head of Delegations, gave the welcoming remarks.

## **2 Roll Call of Participants**

All participants introduced themselves. A complete list of attendees is available at the end of this report.

## **3 Approval of Agenda**

- N0249 (replaces N0206) – 5th WGBD Meeting Agenda – 12 - 15 July 2016 – Beijing, China

The agenda was approved as written.

## **4 Report of Previous Meeting**

- N0196 – Report of 4th JTC 1/WG 9 Meeting – 8-11 March 2016 – Dublin, Ireland
- N0219 – Report of the 21 April 2016 JTC 1/WG9 Teleconference

The reports were approved as written.

## **5 Communication from Convenor**

- Report of the 13 June 2016 Teleconference Between JTC 1/WG 9, JTC 1/SC 27/WG 4 and JTC 1/SC 27/WG 5
- Brief report for the telecon between JTC 1/WG 9, SC 27/WG 4 and WG 5
- We need to make progress with quality standard development

Both Convenor and SC 27 Liaison Officer Jinghua Min offered a brief report of the teleconference between JTC 1/WG 9, JTC 1/SC 27/WG 4 and WG 5. Each WG gave a report of their activities relating to ISO/IEC 20547. Following the reports on activities, a discussion ensued on the best way to work together. Each group expressed an interest in working together to progress the projects so that all interests are represented. Future teleconferences will be held to ensure that this happens.

The Convenor reminded attendees to the meeting that progress must be made on the projects assigned to WG 9. He expressed his desire to have productive and plentiful discussions during the meeting and to have recommendations that move WG 9 projects forward.

## **6 Facilitator Report on JTC 1/WG 9**

No written report – JTC 1/SWG6 FACILITATOR REPORT on JTC 1/WG 9 Big Data

This report was moved up to accommodate the schedule of the JAG-SIF Facilitator's schedule. Ms. Gargi Keeni gone over some JAG documents and answered questions how WG 9 should interact with JTC 1 SCs and WGs.

## **7 Work Plan for This Meeting – Review and Process New Documents (See Appendix)**

### **7.1 Review ISO/IEC JTC 1/WG 9 Terms of Reference**

- N0002 – WG 9 Terms of Reference

The group was reminded of its terms of reference as designated by JTC 1.

### **7.2 General Input**

- N0xxx – AHG Report on Awareness and Engagement (Ray WALSHE)
- N0xxx – AHG Report on Big Data Reference Architecture (Ray WALSHE)
- N0xxx – AHG Report on Big Data Governance (Ismael Caballero)
- N0xxx – AHG Report on BDRA Interface (Liang Guang)

The AHG on BDRA offered a brief report. No other reports were given as the Ad Hocs Chairs were unable to attend the meeting. It was agreed that the Ad Hocs would be extended until the next face-to-face WG 9 meeting (**WG 9 Recommendation 2**).

### **7.3 Review ISO/IEC 20546 CD Ballot Results on Overview and Vocabulary**

- N0232 – Teleconferencing Schedule and Meeting Agenda to Review ISO/IEC CD 20546 Ballot Results, Aug. 15, 2100 – 23:00 UTC

The Convenor informed attendees that due to JTC 1 rules stating that no official discussions occur on an open ballot, no discussion on ISO/IEC CD 20546 would happen at the meeting. The above mentioned teleconference was scheduled to review the comments received on the CD ballot. Experts did agree to request an extension of the development timeframe for the project from 36 to 48 months (**WG 9 Recommendation 1**).

### **7.4 ISO/IEC 20547 Series of Standards**

#### **7.4.1 ISO/IEC PDTR 20547-1, Information technology – Big data reference architecture – Part 1: Framework and application process**

- N0150, Current WD
- N0210, KNB Comments on 20547-1 (PDF of N0171)
- N0225, KNB Comments on 20547-1
- N0227 India NB Comments on ISO/IEC JTC 1/WG 9 N0179 Discussion on A Framework

All contributions discussed (**WG 9 Recommendation 8, 9, and 12**).

#### **7.4.2 ISO/IEC TR 20547-2, Information technology – Big data reference architecture – Part 2: Use cases and derived requirements**

- N0152, Current WD
- N0211, KNB Comments on 20547-2 (PDF of N0172)

All contributions discussed. It was noted that a template for use case submission is required. Experts were encouraged to provide contributions. It was agreed that this part could be progressed to PDTR ballot (**WG 9 Recommendation 11, 13**).

#### 7.4.3 ISO/IEC TR 20547-3, Information technology – Big data reference architecture – Part 3: Reference architecture

- N0198, Current WD
- N0212, KNB Comments on 20547-3 (PDF of N0173)
- N0226, US Expert Comments on 20547-3 WD2
- N0228, CN Experts Comments on ISO/IEC 2nd ED 20547-3 (JTC 1/WG 9 N0198)
- N0229, CN Contribution on ISO/IEC 4th ED 20547-3 (JTC 1/WG 9 N0198)
- N0230, JNB Experts Comments on N0198 WD 20547-3

All contributions discussed. WG 9 agreed to request a change in development time frame for the project from 36 to 48 months (**WG 9 Recommendation 1,5,6,7,9,14 and 16**).

#### 7.4.4 ISO/IEC TR 20547-5, Information technology – Big data reference architecture – Part 5: Standards roadmap

- N0158, Current WD
- N0214, KNB Comments on 20547-2 (PDF of N0175)

All contributions discussed (**WG 9 Recommendation 9, 15**).

## 8 Facilitator and Liaison Reports

Convenor requests all liaison reports should include written reports like PPTs and WG 9 members agreed.

### 8.1 Internal Liaisons (**WG 9 Recommendation 4**).

#### 8.1.1 JTC 1/WG 10 (Internet of Things)

N0218 – JTC 1/WG 10 Liaison Statement to JTC 1/WG 9

No written report – Liaison Report from JTC 1/SC 6/WG 7 to JTC 1/WG 9 on Big Data

#### 8.1.2 JTC 1/SC 6/WG 7 (Network, transport and future network)

No written report – Liaison Report from JTC 1/SC 6/WG 7 to JTC 1/WG 9 on Big Data

No report provided. Due to no liaison activities, WG 9 agreed to remove this liaison relationship.

### 8.1.3 JTC 1/SC 27 – IT Security Techniques

Joint Telecon between JTC 1/WG 9, SC 27/WG4 and WG5 on June 13, 2016

No written report – Jinghua Min presented the liaison report from JTC 1/SC 27 to JTC 1/WG 9

A lengthy discussion on how to proceed with JTC 1/SC 27 ensued. IT was agreed that the outline of ISO/IEC 20547-4 was a starting point and that JTC 1/SC 27 should proceed how it sees fit. JTC 1/SC 27 was encouraged to review the use cases currently contained in ISO/IEC 20547-2 and the WG 9 N0104 (NIST contribution on Big Data Security and Privacy) as they may be helpful.

WG 9 members requested that JTC 1/SC 27 provide an updated table of contents for ISO/IEC 20547-4 for comment and indicate which sections proposed by WG 9 will be kept and what has changed. It was also recommended that a joint meeting be held to progress the document and discuss changes (**WG 9 Recommendation 3**).

### 8.1.4 JTC 1/SC 32 - Data Management and Interchange

No written report – Liaison Report from JTC 1/SC 32 to JTC 1/WG 9

Jim Melton, Convenor of SC 32 made a brief report from their recent meeting.

### 8.1.5 JTC 1/SC 36 - Information Technology for Learning, Education and Training

No written report – Liaison Report from JTC 1/SC 36 to JTC 1/WG 9

No report provided. Due to no liaison activities, WG 9 agreed to remove this liaison relationship.

### 8.1.6 JTC 1/SC 38 - Cloud Computing and Distributed Platforms

No written report – Liaison Report from JTC 1/SC 38 to JTC 1/WG 9

No report provided.

### 8.1.7 JTC 1/SC 39 - Sustainability for and by Information Technology

N0243 – Liaison Report from JTC 1/SC 39 to JTC 1/WG 9

A report was presented by the liaison representative, Mr. Wael William Diab.

## 8.2 External Liaisons

(**WG 9 Recommendation 4**).

### 8.2.1 ISO/TC 69 (Applications of statistical methods)

No written report – Liaison Report from ISO/TC69 to JTC 1/WG 9

### 8.2.2 ISO/TC 204 (Intelligent transport systems)

No written report – Liaison Report from ISO/TC204 to JTC 1/WG 9

A brief report was presented by the liaison representative, Mr. Wael William Diab, on a liaison statement from TC2014, N0237. The statement was blur would prefer to have a clear copy.

### 8.2.3 ITU-T SG13 (Future networks including cloud computing, mobile and next-generation networks)

N0224 – Liaison Statement from ITU-T SG13 to ISO/IEC JTC 1/WG 9 - SG13-LS147

No written report – Liaison Report from ITU-T SG13 to JTC 1/WG 9

This report contained comments on the CD ballot of ISO/IEC 20546 and those comments could not be discussed. The liaison representative was encouraged to submit the comments to JTC 1 as the ballot is at the JTC 1 level.

### 8.2.4 Industrial Internet Consortium (IIC)

N0245 – Liaison Report from IIC to JTC 1/WG 9

A report was presented by the liaison representative, Mr. Wael William Diab.

## 8.3 Promotional and Outreach Activities

- <list of new activities>  
None discussed.

## 9 Next and Future Meetings

(Plan to establish meeting pattern for March, July and November)

- 15 August 2016, 2100 UTC – Electronic Meeting to Discuss ISO/IEC CD 20546 Comments
- 30 August 2016, 1300 UTC – TENTATIVE Electronic Meeting to Discuss ISO/IEC CD 20546 Comments
- 30 September 2016, 2100 UTC – TENTATIVE Electronic Meeting to Discuss ISO/IEC CD 20546 Comments
- 6th meeting: 29 Nov – 02 Dec 2016 – Fairfax, Virginia, USA
- 7th meeting: 11 – 14 April 2016, Matsue, Japan  
(**WG 9 Recommendation 16**)

## 10 Review and Approval of Recommendations

The meeting recommendations are contained in document WG 9 N 250.

## 11 Closing

The meeting closed on 14 July 2016 at 1700.

## List of Attendees to the 14-15 July 2016 JTC 1/WG 9 Meeting

<b>Wo Chang</b>	<b>WG 9 Convenor</b>
<b>Sally Seitz</b>	<b>WG 9 Secretary</b>
<b>Masaki Ito</b>	<b>JP Expert</b>
<b>Satoshi Itoh</b>	<b>JP Expert</b>
<b>Toshihiro Suzuki</b>	<b>JTC 1 JAG SIF Facilitator</b>
<b>Guan Liang</b>	<b>CN Expert</b>
<b>Gargi Keeni</b>	<b>JTC 1 JAG SIF Facilitator</b>
<b>Jingua Min</b>	<b>CN Expert</b>
<b>Jim Melton</b>	<b>US Expert</b>
<b>Liu Xiaohui</b>	<b>CN Expert</b>
<b>Lili Yang</b>	<b>CN Expert</b>
<b>Zhang Qun</b>	<b>CN Expert</b>
<b>David Boyd</b>	<b>US Expert</b>
<b>Suwook Ha</b>	<b>KR Expert</b>
<b>Wael William Diab</b>	<b>US Expert</b>
<b>Gautam Banerjee</b>	<b>IN Expert</b>
<b>Jiang Zhao</b>	<b>CN Expert</b>
<b>Yacheo Zhao</b>	<b>CN Expert</b>
<b>Lina</b>	<b>CN Expert</b>
<b>Dong Wang</b>	<b>CN Expert</b>
<b>Yu Yang</b>	<b>CN Expert</b>



**Appendix: Input Documents to 5th WG9 Meeting**

N-Doc	Doc Title	Document Type
N0233	5th WGBD Meeting Agenda – 12 - 14 July 2016 – Beijing, China (replaces N0206)	Meeting Agenda
N0232	Teleconferencing Schedule and Meeting Agenda to Review ISO/IEC CD 20546 Ballot Results	Meeting Agenda
N0231	India NB Comments ISO/IEC JTC 1/WG 9 N180	NB Contribution
N0230	JNB Experts Comments on N0198 WD 20547-3	NB Contribution
N0229	CN Contribution on ISO/IEC 4th ED 20547-3 (JTC 1/WG 9 N0198)	NB Contribution
N0228	CN Experts Comments on ISO/IEC 2nd ED 20547-3 (JTC 1/WG 9 N0198)	NB Contribution
N0227	India NB Comments on ISO/IEC JTC 1/WG 9 N0179 Discussion on A Framework	NB Contribution
N0226	US Expert Comments on 20547-3 WD2	NB Contribution
N0225	KNB Comments on 20547-1	NB Contribution
N0224	Liaison Statement from ITU-T SG13 to ISO/IEC JTC 1/WG 9 - SG13 - LS 147	Liaison Organization Contribution
N0223	N16246 ISO/IEC JTC 1SC2 7/WG 5 liaison to JTC 1/WG 9 - 20160415	Liaison Organization Contribution
N0219	JTC 1/WG 9 Meeting Report for April 21 2016	Meeting Report
N0218	JTC 1/WG 10 Liaison Statement to JTC 1/WG 9	Liaison Organization Contribution