

Minutes of the
IFIP TC8 INFORMATION SYSTEMS

51st Business Meeting

Zoom (Online)

Thursday 17th and Friday 18th September (10-12 noon Paris time)

Version 2 November 2020

1. Call to order Day 1

The TC8 Chair, Isabel Ramos, called the meeting to order at 10 am (Paris time*) on 17th September 2020. The meeting was originally scheduled for Toulouse in France however the COVID pandemic disrupted travel and the meeting was conducted as an online meeting over 2 days using Zoom software.

2. Roll call of attendees Day 1

France	Thomas Polacsek	
Lithuania	Saulius Gudas	
Japan	Tetsuya Uchiki	
Poland	Janusz Kacprzyk	
Portugal	Isabel Ramos	TC8 Chair
South Africa	Alta van der Merwe	TC8 Vice-Chair
Switzerland	Jolita Ralyté	
UK	Jyoti Choudrie	
	Dale MacKrell	Secretary
WG 8.1 Chair	Jolita Ralyté	
WG 8.2 Chair	Eija Karsten and	
WG 8.2 Vice-Chair	Matthew Jones	
WG 8.3 Chair	Ciara Heavin and	
WG 8.3 Vice-Chair	Biljana Mileva	
WG 8.4 Secretary	Peter Kieseberg	
WG 8.6 Chair	Yogesh Dwivedi	
WG8.9 Vice-Chair	Li Da Xu	
WG 8.9 Secretary	Ling Li	
WG 8.12 Chair	Li Da Xu	

* 18:00 (6pm) in eastern Australia

3. Apologies for absence

New Zealand	Michael Myers
Norway	John Krogstie
WG 8.4 Chair	Andreas Holzinger
WG 8.9 Secretary	Sohail Chaudhry
WG 8.11 Chair	Allen C. Johnston

4. Declaration of proxies

Dale MacKrell served as proxy for Allen C. Johnston

5. Request permission to record the meeting

No objections received

6. Welcoming new members

Saulius Gudas, Lithuania
Jolita Ralyté, Switzerland
Jyoti Choudrie, United Kingdom

7. Approval of the Agenda for the 51st Meeting

The agenda previously distributed to be approved.

8. Approval of the minutes of the 50th meeting in Stockholm, Saturday 15th June 2019

The minutes of the 50th meeting in Stockholm needed to be re-circulated so that they could be read by members. Dale agreed to email the minutes for approval on Day 2.

9. Review of Action Items from the last Meeting

Action-Item 2019-1: The Chair will contact WG Chairs on the matter of assessing WG paper quality.

- Assessment of the quality of papers to publish with Springer
- DONE

Action-Item 2019-2: The Chair will ensure that TC8 lists all WGs conferences, their acceptance rates and brief information about the review process and impact.

- Most WG Reports do not include information about review process and acceptance rates
- Some information on impact
- Is there a need for a specific field in the report? Paper quality?

Eija Karsten informed the meeting that it is not possible to circulate the WG report using the new online form before submitting, needed to save and print.

Jolita Ralyté said that space on the new online form is limited for the reporting of events.

The online form is being developed by a student associated with the hosting of the TC8 website.

Action-Item 2020-1: The Chair will work with the student to improve the online form for WG reporting including WG conferences and past events.

Action-Item 2019-3: The Chair will contact George Kasper regarding the amount spent on the Ghana Summer School out of the budgeted funds allocated by UNESCO.

- George Kasper's report

George Kasper was not present to discuss the report. Since some members had not read the report, Dale agreed to email George Kasper's report on the Ghana Summer School for discussion on Day 2.

Action-Item 2019-4: Eija Karsten will follow up the IFIP-AIS liaison initiative with the next AIS president.

- What event can be selected to become a proposal for AIS? (take OASIS as an example of a successful collaboration)
- Task force to work on the details of a proposal

This action item resulted in a quite lengthy discussion. Eija explained that she has now had discussions on

the topic of AIS-IFIP collaboration with AIS President and TC8 National Representative of Ireland Brian Fitzgerald, IFIP General Secretary Eduard Dundler and AIS Fellow and WG9.4 Chair Robert Davison. There is interest in co-locating AIS and IFIP events and sharing some resources such as the AIS registration system and eLibrary. This partnership may be opportune since IFIP has no intention of expanding (although some universities may become members) while AIS is looking to grow. Eija thought that AIS was reputed to be more US-based while IFIP was reputed to be more Europe-based and linked to UNESCO.

Matthew Jones said that past collaborations with AIS had not been particularly effective. This was because the AIS administration system for registrations and financial arrangements had not been satisfactory. There needs to be agreement on how to make the partnership compatible.

Isabel Ramos explained that the benefits to both parties should be considered. Isabel proposed a task force to develop a proposal on AIS-IFIP collaboration. She suggested that Eija lead because of her earlier efforts in this area. Dale offered to assist. In the absence of volunteers, Isabel said she would join the task force. WG 8.2 Organizations and Society in Information Systems OASIS Workshop which had been co-located with ICIS was put forward as a good event to start with.

Action-Item 2020-2: An appointed task force will develop a proposal on AIS-IFIP collaboration.

Action-Item 2019-5: The Chair will continue looking into the business model at the TA meeting.

- IFIP's business model for open access
- TA meeting on September 23

The Chair will continue with this work.

Action-Item 2020-3: This action item is repeated from 2019. The Chair will continue looking into the business model at the TA meeting.

Action-Item 2019-6: The Chair will add information about WG 8.12 on the TC8 Website.

- DONE

Action-Item 2019-7: The Secretary will gather the information about WG 8.12 aims, scope, officers, members and events on TC8 Website.

- No website for WG 8.12

Chair of WG 8.12 Li Da Xu said the website will be available soon

Action-Item 2020-4: The Secretary will follow up on the WG 8.12 website.

Action-Item 2019-8: The Secretary will send to all WGs a text to insert in the Call for Papers of Working Conferences explaining the procedure on how to apply for support if a participant is from a developing country.

- DONE

This initiative has lost relevance with travel curtailed during COVID pandemic. Eija requested that 4,000 euros pay for conference registration rather than travel. Isabel suggested this request be moved for discussion

with the budget.

Action-Item 2019-9: The Chair will ensure the TC8 Website is ready for online reports in 2020.

- DONE

Action-Item 2019-10: The Chair will ask the WG 8.4 Chair for information about events in 2020 and 2021.

- International Cross Domain Conference for Machine Learning & Knowledge Extraction (CD-MAKE 2020)
- No future events reported

WG 8.4 Secretary Peter Kieseberg spoke on behalf of Chair Andreas Holzinger. Peter said that the 2020 online conference went really well, with full talks and proceedings. Even social events took place remotely although they had problems obtaining public liability insurance. Peter said that the 2021 conference would be in Dublin at the end of August, co-located with the ARES 2021 conference.

Isabel asked about the issues of conference co-location. Peter thought it was a good idea. He expanded his response to say that the major benefits are sharing costs and the attendance of people from different backgrounds. This allows registrants to go to both / either conference for the same registration fee. ARES is well established while CD-MAKE is an emerging conference. WG 8.4 want it to be a flagship conference showing IFIP as an active research community. Janusz also thought it was a good idea for better social networking so long as not too big an event.

- DONE

Action-Item 2019-11: The Chair to make available a list of UN developing countries.

- https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/WESP2020_Annex.pdf
- Uploaded in the website

- DONE

Action-Item 2019-12: The Chair will ask about the UK representative at GA.

- DONE

Action-Item 2019-13: The Chair will contact ACM to ask about the USA representative.

- DONE

Action-Item 2019-14: The Chair will contact the computing society in Ukraine to ask about the national representative.

- Representative nominated while not answering emails

Action-Item 2020-5: The Chair will contact the Ukraine representative.

Action-Item 2019-15: The Secretary to contact WG 8.4 about 3 years term.

- New officers appointed (2020-2023)

Isabel explained that the term of a WG officer is 3 years. In the WG reports, several WGs including WG 8.4 seem to have terms of 4 years. This reporting of term requires clarification.

WG 8.3 Secretary Biljana explained that the WG election was in June 2020 for a 3 year term. However, the next election is planned for the biennial conference in June 2022 which means a term of 2 years, not 3 years. [Ciara and Biljana agreed to follow up with Isabel and Dale.](#)

WG 8.4 Peter thought that the WG election was in January 2020.
[Peter will follow up with Chair Andreas and get back to Isabel and Dale.](#)

WG 8.11 [No WG officer present to explain.](#)

WG 8.12 [Chair Li Da Xu said the situation of his WG was the same with mid-year elections and appointments.](#)

Isabel opened the discussion. Do WGs prefer to specify the term as month and year of appointment eg June 2020, or would it be simpler to have a ruling that the term commenced at the beginning of the year after the election?

Isabel asked for a decision from members present ie specify the month and year when terms commence or commence the term at the start of the year after a WG election as a standard.
[All comments were in favour of a term starting in January of the year following the election.](#)

Action-Item 2020-6: The Secretary will remind WG officers that a term is 3 years and terms start at the beginning of the year following the election of officers.

Action-Item 2019-16: The Secretary to contact WG 8.6 re officer from Denmark, no longer IFIP member.

TC8 Secretary Dale explained that all emails to the officer from Denmark had bounced. However, Dale now has the correct email. Isabel explained that IFIP is endeavouring to make universities members of IFIP including CBS in Denmark. [Isabel suggested waiting until this initiative plays out.](#)

Action-Item 2020-7: The Chair decided not to proceed with action item since IFIP is trying to make universities members and this includes CBS in Denmark.

Action-Item 2019-17: The Secretary to contact WG 8.9 re officer from Hungary, no longer IFIP member.

- DONE

Action-Item 2019-18: The Chair will ask WG 8.11 to explain who are the probationary members.

Since no officer from WG 8.11 was present, this action item will be repeated.

Action-Item 2020-8: This action item is repeated from 2019. The Chair will ask WG 8.11 to explain who are the probationary members.

Action-Item 2019-19: The Chair and Secretary will send a list of approved WG events to IFIP and remind WGs to fill out forms that formalize approval with IFIP.

This action item will be dealt with on Day 2.

Action-Item 2019-20: The Secretary will request a brief report of the Ghana Summer School to be distributed to TC8 members.

- DONE

Action-Item 2019-21: The Secretary will contact Thomas Polacsek (French NR) to enquire about his availability to support TC8 in organizing the meeting.

Thomas had been contacted and offered to assist however COVID meant the format of this meeting changed from f2f in Toulouse France to online.

- DONE

10. Clarification of terms of appointments of TC8 and its WG's officers

TC 8 Officers:	Chair Isabel Ramos (2019-2021) Vice-Chair Alta van der Merwe (2019-2021) Secretary Dale MacKrell (2019-2021)
WG 8.1 Officers:	Chair Jolita Ralyté (2019-2021) Vice-Chair Janis Stirna (2019-2021) Secretary John Krogstie (2019-2021)
WG 8.2 Officers:	Chair Eija Karsten (2019-2021) Vice-Chair Matthew Jones (2019-2021) Secretary Benjamin Müller (2019-2021)
WG 8.3 Officers:	Chair Ciara Heavin (2020-2022) Vice-Chair Ana Respício (2020-2022) Vice-Chair Biljana Mileva (2020-2022) Secretary Gloria Philips-Wren (2020-2022)
WG 8.4 Officers:	Chair Andreas Holzinger (2020-2022) Vice-Chair Edgar Weippl (2020-2022) Secretary Peter Kieseberg (2020-2022)
WG 8.5 Officers:	Chair Marijn Janssen (2018-2020) Vice-Chair Olivier Glassey (2018-2020) Vice-Chair Peter Parycek (2018-2020) Secretary Efthimis Tambouris (2018-2020)
WG 8.6 Officers:	Chair Yogesh Dwivedi (2019-2021) Vice-Chair Amany Elbanna (2019-2021) Vice-Chair Helle Zinner Henriksen (2019-2021) Secretary Banita Lal (2019-2021)
WG 8.9 Officers:	Chair A Min Tjoa (2018-2020) Vice-Chair Lida Xu (2018-2020) Secretaries Ling Li and Sohail Chaudhry (2018-2020)
WG 8.10 Officers:	Chair Pierluigi Plebani (2018-2020) Vice-Chair Winfried Lamersdorf (2018-2020)

Vice-Chair Eric Dubois (2018-2020)
Secretary Damian Andrew Tamburri (2018-2020)

WG 8.11 Officers: Chair Allen C. Johnston (2018-2020)
Vice-Chair Manish Agrawal (2018-2020)
Secretary Tejaswini Herath (2018-2020)

WG 8.12 Officers: Chair Li Da Xu (2019-2022)
Vice-Chair Lirong Zheng (2019-2022)
Vice-Chair Zhuo Zou (2019-2022)
Secretary Wattana Viriyasitavat (2019-2022)

11. Close of Day 1

Before closing for the day, Isabel gave notice that the TC8 Vice-Chair Alta van der Merwe had resigned from the position of Vice-Chair. Nominations are called for and voting will be on Day 2.

The TC 8 Chair Isabel Ramos closed the meeting of Day 1 at 12 noon Paris time.

Call to order Day 2

The TC8 Chair, Isabel Ramos, called the meeting to order at 10 am (Paris time*) on 18th September 2020.

Roll call of attendees Day 2

Bulgaria	Krassen Stefanov	
France	Thomas Polacsek	
Japan	Tetsuya Uchiki	
Lithuania	Saulius Gudas	
Poland	Janusz Kacprzyk	
Portugal	Isabel Ramos	TC8 Chair
South Africa	Alta van der Merwe	TC8 Vice-Chair
Switzerland	Jolita Ralyté	
UK	Jyoti Choudrie	
	Dale MacKrell	Secretary
WG 8.1 Chair	Jolita Ralyté	
WG 8.2 Chair	Eija Karsten and Vice-Chair Matthew Jones	
WG 8.3 Chair	Ciara Heavin and Vice-Chair Biljana Mileva	
WG 8.4 Secretary	Peter Kieseberg	
WG 8.6 Chair	Yogesh Dwivedi and Vice-Chair Amany Elbanna	
WG 8.9 Secretary	Ling Li	

* 18:00 (6pm) in eastern Australia

12. Report from the TC8 Chair

TC8 Chair

Analysis of distributed information: Income and expenditure for 2020 and the budgeted income and expenditure for 2021 were presented for approval

- Budget for 2020 and 2021 -> Budget TC 8 - 2020-2021 Draft1.pdf

Further discussion on income 2020:

The COVID pandemic has disrupted the plans of many conferences – some went from face-to-face (f2f) to online, some were postponed or cancelled. Isabel warned that IFIP funds for conferences are limited hence the need to source additional funding.

WG 8.6 Vice-Chair Amany said that the WG 8.6 Conference in December was in doubt yet 500 euros had been expended. Amany requested that the balance of funds be transferred to 2021.

Action-Item 2020-9: This action item relates to **Income 2020**. The Chair to confirm -
WG 8.1 Fewer participants than in IFIP agreement – variance ?
WG 8.2 Fewer participants than in IFIP agreement – variance ?
WG 8.3 Number of participants at conference
WG 8.4 Conference budget amount in IFIP agreement set at 0 euros
WG 8.5 Number of participants unknown.

Further discussion on expenditure 2020:

WG 8.3 Vice-Chair Biljana requested funds from 3,000 euros budgeted for WG website hosting and improvement. Her own organization in Slovenia is purchasing Zoom software. Isabel proposed adding 100 euros per WG to the 2021 budget for the hosting of web services.

Action-Item 2020-10: The Chair to add 100 euros for each WG for the hosting of web services.

WG 8.2 Chair Eija said there were substantial cancellation costs associated with COVID travel restrictions. WG 8.2 paid a deposit of 7,000 euros to the conference centre in Hyderabad and were not refunded when the conference format was changed from f2f to online. Eija asked if it would be possible to obtain a loan from IFIP to compensate for those losses.¹

Action-Item 2020-11: The Chair to consult Eduard Dundler regarding 2,000 or 2,500 euros in Budget to compensate for conference cancellation costs.

On Day 1 of this meeting, WG 8.2 Chair Eija requested that 4,000 euros allocated to support the attendance of colleagues from developing countries be used to pay for conference registration rather than travel.

WG 8.6 Vice-Chair Amany said the Cape Verde workshop for PhDs in 2020 was moved to an online format. It went well and Internet was not a problem. The budgeted amount of 6,000 euros was not all spent. Amany asked about transferring unspent funds to repay IFIP. Isabel thought this unlikely.

Action-Item 2020-12: The Chair to investigate if unspent conference funds be transferred or reused or refunded.

Isabel raised the issue of WGs trying new conference formats. This has happened to some degree with the COVID disruption to f2f conferences. Isabel spoke of 'coffee tables' simulation to make online meetings less formal. This could be expensive such as 1,000 euros for each licence. AIS has its own conference software.

Action-Item 2020-13: The Chair to investigate new online conference software.

- Budget Trends for 2021 -> Budget TC 8 - Trends 2021 Draft 1.pdf

Isabel prepared a report of TC8 trends for IFIP. The main concern is a shrinking number of participants at conference. Dale wondered if it would be effective to have a TC8 communication officer, active in social media 'marketing'.

13. Working Chairs summary (previous discussions coordinated by email)

13.1.	WG 8.12 Report	WG 8.12 Chair
13.2.	WG 8.1 Report	WG 8.1 Chair
13.3.	WG 8.2 Report	WG 8.2 Chair
13.4.	WG 8.3 Report (no events reported for 2021)	WG 8.3 Chair
13.5.	WG 8.4 Report (no events reported for 2021 and 2022)	WG 8.4 Chair
13.6.	WG 8.5 Report	WG 8.5 Chair
13.7.	WG 8.6 Report (no events reported for 2021)	WG 8.6 Chair

¹ 24 September 2020 email from Isabel regarding issue raised by WG 8.2 Chair Eija Karsten. It was agreed at TA meeting that TC8 can lend up to 2,500 euros to be returned from the income of the next conference, online or f2f. The process would be to issue an invoice to IFIP that then will issue an invoice to the conference. Need to be approved by Eduard Dundler as IFIP General Secretary.

13.8.	WG 8.9 Report (no report submitted)	WG 8.9 Chair
13.9.	WG 8.10 Report (no events reported for 2021 and 2022)	WG 8.10 Chair
13.10.	WG 8.11 Report	WG 8.11 Chair
13.11.	TC8 Events	TC8 Chair

The discussion centred around the following -

1. No 2020 report for WG 8.9

WG 8.9 Report submitted by Secretary Ling Li the next day 19th September 2020.

2. No events reported for 2021 for WGs 8.3 and 8.6

WG 8.3 Vice-Chair Biljana said work is in progress. Conference will be held online and combine both academia and industry.

WG 8.6 Chair Yogesh and Vice-Chair Amany said work is in progress.

Action-Item 2020-14: The Chair or Secretary will contact WGs 8.3 and 8.6 for event details planned for 2021.

3. No events reported for 2021 and 2022 for WGs 8.4 and 8.10

Action-Item 2020-15: The Chair or Secretary will contact WGs 8.4 and 8.10 for event details planned for 2021 and 2022.

Events 2020:

4. WG 8.1: Working conference on the Practice of Enterprise Modelling - – *will it happen online?* It was approved by IFIP.

WG 8.1 Chair Jolita said that the 2020 conference was online.

5. IFIP WG8.2, WG9.1 and WG9.4 The Future of Digital Work Joint Working Conference – *will it happen online?*

WG 8.2 Chair Eija said that the 2020 conference will be online.

6. IFIP EGOV: The 20th conference on electronic government (EGOV2020) co-located with IFIP ePart – *did it happen in Sweden (31 Aug – 2 Sept)?*

WG 8.5 Chair Marijn not present. WG 8.6 Chair Yogesh said that the conference was online.

7. WG 8.6: Re-Imagining Diffusion of Information Technology and Systems: a Continuing Conversation – **has the decision been made to postpone?** It was approved by IFIP.

WG 8.6 Chair Yogesh said that the conference would be online with reduced registration fee.

8. WG 8.10: 8th European Conference on Service-oriented and Cloud Computing (ESOCC) – **postponed.** Not submitted for approval by IFIP.

No representative from WG 8.10 present at meeting.

Action-Item 2020-16: The Chair or Secretary will contact WG 8.10 regarding event details for 2020.

9. WG 8.12: IFIP TC8 WG8.12 Conference 2020 - *will it happen online?* It was approved by IFIP.

WG 8.12 Chair Li Da said that conference moved to December and online. Eduard has been advised.

Events 2021:

WG 8.1 Chair Jolita said no details yet.

Action-Item 2020-17: The Chair or Secretary will contact WG 8.11 Chair Allen C. Johnston regarding conference status changing from 1 to 2.

Events 2022:

WG conference organisers to proceed with IFIP formalities re approvals.

The TC8 calendar for the years 2019, 2020, 2021 and 2022 was reviewed and the events' status updated.

Action-Item 2020-18: The Chair and Secretary will send a list of approved WG events to IFIP and remind WGs to fill out forms which formalise approval with IFIP.

14. Nominations for Awards TC8 Chair

2 nominations for Service Award:

- Amany Elbana
- Frada Burstein

Nominations to be considered on Thursday and Friday at IFIP GA meeting.

15. Discussion of NR's reports on national computing societies initiatives TC8 Chair
(postponed this year)

16. Election of TC8 Officer (Vice-Chair) TC8 Chair

Vice-Chair and National Representative for South Africa Alta van der Merwe has reluctantly resigned due to the pressure of work. Isabel thanked her for her support over the past 2 years. Since no nominations for the vice-chair position had been received, Isabel requested nominations from the 'floor'. Nominations were Janusz Kacprzyk (Polish National Representative) and Jolita Ralyté (Swiss National Representative and WG 8.1 Chair). Both nominations had yet to accept their nomination. When that had occurred, voting would be conducted online and asynchronously using an online secret ballot.

17. TC8 next meetings TC8 Secretary

TC8 meeting date and place 2021 – Eija proposed August 26-27 online

Tentative TC8 meeting date and place 2022 – Isabel proposed Romania to coincide with ECIS

Decision made that hybrid approach to meetings (f2f and online) is well accepted into the future.

17. Any other business TC8 Chair

Brought forward from Day 1 –

TC8 meeting minutes from 2019 were approved.
Ghana Summer School report by George Kasper was accepted.

18. Decisions (for noting on the TC8 Web Page)

TC8 Secretary

19. Close of Meeting on Day 2

The TC 8 Chair Isabel Ramos closed the meeting of Day 2 at 12 noon Paris time.

Appendix 1: Actions Items from the TC 8 meeting 2020

Action-Item 2020-1: The Chair will work with the student to improve the online form for WG reporting including WG conferences and past events.

Action-Item 2020-2: An appointed task force will develop a proposal on AIS-IFIP collaboration.

Action-Item 2020-3: This action item is repeated from 2019. The Chair will continue looking into the business model at the TA meeting.

Action-Item 2020-4: The Secretary will follow up on the WG 8.12 website.

Action-Item 2020-5: The Chair will contact the Ukraine representative.

Action-Item 2020-6: The Secretary will remind WG officers that a term is 3 years and terms start at the beginning of the year following the election of officers.

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WG 8.5 Number of participants unknown.

Action-Item 2020-10: The Chair to add 100 euros for each WG for the hosting of web services.

Action-Item 2020-11: The Chair to consult Eduard Dundler regarding 2,000 or 2,500 euros in Budget to compensate for conference cancellation costs.

Action-Item 2020-12: The Chair to investigate if unspent conference funds be transferred or reused or refunded.

Action-Item 2020-13: The Chair to investigate new online conference software.

Action-Item 2020-14: The Chair or Secretary will contact WGs 8.3 and 8.6 for event details planned for 2021.

Action-Item 2020-15: The Chair or Secretary will contact WGs 8.4 and 8.10 for event details planned for 2021 and 2022.

Action-Item 2020-16: The Chair or Secretary will contact WG 8.10 regarding event details for 2020.

Action-Item 2020-17: The Chair or Secretary will contact WG 8.11 Chair Allen C. Johnston regarding conference status changing from 1 to 2.

Action-Item 2020-18: The Chair and Secretary will send a list of approved WG events to IFIP and remind WGs to fill out forms which formalise approval with IFIP.

Appendix 2: Attendance at TC8 Meetings

Attendance statistics

Country	Meetings																					Cumulative					
	30 1999	31 2000	32 2001	33 2002	34 2003	35 2004	36 2005	37 2006	38 2007	39 2008	40 2009	41 2010	42 2011	43 2013	44 2013	45 2014	46 2015	47 2016	48 2017	49 2018	50 2019	51 2020	R	Y	X	A	W
1 Argentina	W	W	W	W	A	A	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	--	34	1	1	3	29
2 Australia	Y	Y	Y	Y	A	Y	A	Y	Y	A	Y	Y	A	W	A	Y	A	A	Y	Y	Y	--	46	30	1	13	2
3 Austria	A	Y	Y	Y	A	Y	Y	Y	X	Y	Y	Y	Y	X	X	Y	X	X	Y	Y	X	W	47	28	13	5	2
4 Belgium	Y	Y	A	A	Y	A	A	A	Y	Y	A	A	A	Y	A	Y	A	--	--	--	--	--	45	16	2	17	10
5 Bulgaria	W	W	W	W	W	Y	Y	A	A	Y	Y	W	Y	A	Y	Y	A	X	Y	X	A	Y	45	19	2	6	19
6 China	W	A	Y	Y	A	A	A	A	A	Y	X	W	A	A	W	A	A	A	A	A	W	W	34	7	1	14	13
7 Czech Rep	W	W	W	W	W	W	W	Y	Y	Y	Y	A	Y	W	Y	A	A	A	A	Y	W	W	36	7	3	8	19
8 Denmark	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	A	X	A	--	49	36	1	8	4
9 Finland	Y	Y	Y	A	Y	A	X	A	Y	Y	Y	X	Y	W	A	A	A	W	W	X	W	--	48	27	5	11	5
10 France	Y	Y	A	W	Y	Y	Y	Y	Y	X	-	-	-	Y	A	Y	A	Y	Y	X	A	Y	45	32	5	6	3
11 Germany	Y	W	W	W	W	A	A	A	A	Y	Y	Y	A	W	W	A	A	Y	Y	A	W	W	44	24	2	12	7
12 Greece	A	W	A	W	Y	W	W	W	W	W	W	W	-	W	W	W	W	W	W	W	W	--	22	2	0	3	17
13 Hungary	W	W	A	W	W	Y	Y	Y	Y	Y	Y	Y	A	Y	X	A	Y	A	A	W	W	--	49	24	2	7	16
14 India	W	W	W	W	W	W	W	A	Y	X	W	W	W	W	W	W	W	W	W	W	W	W	48	6	1	6	36
15 Ireland	A	Y	X	A	A	W	W	W	W	W	W	W	Y	W	W	A	A	A	A	W	W	W	32	7	42	8	12
16 Israel	A	X	X	Y	A	W	W	A	W	W	W	W	-	W	W	W	W	W	W	W	W	--	42	16	2	5	19
17 Italy	A	Y	X	A	A	A	Y	Y	Y	Y	Y	X	Y	Y	X	Y	X	Y	X	A	W	49	34	6	7	3	
18 Japan	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X	Y	Y	X	X	Y	Y	Y	Y	Y	47	41	3	7	6
19 Lithuania																						Y		1			
20 Netherlands	Y	Y	A	A	A	A	A	A	W	W	W	W	Y	Y	X	A	X	X	W	X	W	W	50	30	5	9	7
21 New Zealand	A	A	A	A	Y	A	A	Y	X	Y	W	W	A	A	A	A	A	A	A	W	A	A	22	3	2	15	3
22 Nigeria	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	W	W	W	W	--	4			4	
23 Norway	A	A	Y	Y	A	Y	Y	Y	X	Y	Y	Y	Y	Y	X	X	Y	Y	Y	Y	Y	A	49	35	6	6	3
24 Poland	A	W	W	W	A	Y	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	Y	24	5	1	2	17
25 Portugal	Y	A	W	W	Y	Y	Y	Y	X	X	Y	A	Y	Y	Y	Y	X	Y	Y	Y	Y	Y	44	20	8	3	14
26 Serbia	-	-	-	-	-	-	-	-	W	W	Y	W	W	W	W	W	W	A	A	A	W	W	14	1	0	3	10
27 Singapore	A	W	W	W	W	W	W	A	W	W	W	W	W	W	W	W	W	W	W	W	W	--	27	1	0	3	23
28 Slovakia	A	A	A	A	W	W	W	W	W	W	W	W	W	Y	A	Y	A	Y	Y	X	Y	W	23	6	1	7	10
29 Slovenia	-	-	A	A	A	A	A	Y	Y	A	A	A	W	W	W	A	W	W	W	W	W	W	19	2	0	9	9
30 South Africa	Y	Y	Y	A	Y	Y	Y	X	Y	Y	Y	Y	Y	A	W	W	W	W	Y	Y	Y	Y	48	19	9	10	11
31 Spain	A	X	A	W	A	A	W	A	Y	Y	A	A	W	W	W	W	W	W	W	W	W	--	41	7	11	9	14
32 Sri Lanka	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	W	W	A	W	W	4			1	4
33 Sweden	A	X	A	A	A	A	X	A	X	W	X	X	W	W	W	W	W	W	Y	W	Y	W	50	18	14	10	10
34 Switzerland	Y	Y	Y	Y	Y	Y	Y	A	X	Y	Y	A	Y	A	Y	A	A	Y	Y	--	--	Y	46	31	5	10	1
35 Ukraine	-	-	-	-	-	-	-	-	-	-	-	-	-	Y	W	W	W	W	W	W	W	W	8	1			8
36 United Kingdom	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	A	-	-	--	--	--	--	Y	45	44	0	2	0
37 US A (ACM)	Y	Y	Y	Y	A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	W	49	42	0	5	3
38 US A (IEEE)	-	Y	Y	Y	A	Y	X	A	Y	Y	X	Y	Y	-	-	-	-	--	--	--	--	--	12	8	2	2	0
Number of Reps	31	32	33	33	33	33	33	33	34	34	33	33	31	34	34	33	33	34	34	33	32	26					
Number at meeting	13	15	12	11	11	15	13	14	16	19	17	10	14	14	8	6	6	9	13	8	7	9					

Y Present A Absent with notification O Observer present
X Proxy assigned W Absent without notification - No representation for 10 years