**Source: MBS SWG Chairman[[1]](#footnote-1)**

**Title: Report of SA4 MBS SWG AH Telco (13th January 2022)**

**Document for: Approval**

**Agenda Item: 5.1**

3GPP SA4 MBS SWG Telco (January 13, 2022)

# 1 Opening of the meeting and Approval of Agenda

Mr. Frédéric Gabin (Dolby, SA4 Chair and MBS SWG chair) opens the session on January 13th, 2022 at 15:00 CET.

The first hour on EVEX is a joint call with SA2 and CT3.

Thomas Stockhammer and Julien Lemotheux are assigned as scribes.

The minutes are shared online: [3GPP SA4 MBS SWG Telco (January 13, 2022)](https://docs.google.com/document/d/1M4G68yOzKf-euW3mo-6-i094J_mVoF8Gr8aHgFrzBb0/edit?usp=sharing)

The following documents were registered:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Contact** | **Agenda item** |
| [**S4aI211271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI211271.zip) | [5MBUSA] Static domain model and baseline parameters | BBC | Richard Bradbury | 4.7 |
| [**S4aI211273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI211273.zip) | Discussion on dependency clarification for 5MBUSA | Huawei Technologies R&D UK | Qi Pan | 4.7 |
| [**S4aI221276**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221276.zip) | [FS\_5GMS\_EXT] TV-grade mass distribution of unicast Live Services | Qualcomm CDMA Technologies | Thomas Stockhammer | 4.4 |
| [**S4aI221277**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221277.zip) | Update of config and report API resource structure for 26.532 | Ericsson LM, BBC, Qualcomm Incorporated | Gunnar Heikkilä | 4.6 |
| [**S4aI221278**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221278.zip) | Report of SA4 MBS SWG AH Telco (9th December 2021) | MBS SWG Chair | Frederic Gabin | 3 |
| [**S4aI221279**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221279.zip) | Report of SA4 MBS SWG AH Telco (16th December 2021) | MBS SWG Chair | Frederic Gabin | 3 |
| [**S4aI221280**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221280.zip) | [5MBUSA] MBS Distribution Session life-cycle model | BBC | Richard Bradbury | 4.7 |
| [**S4aI221281**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221281.zip) | 3GPP Event Exposure Framework | Qualcomm CDMA Technologies | Charles Lo | 4.6 |
| [**S4aI221282**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221282.zip) | dCR on Edge Provisioning for Media Services | QUALCOMM Europe Inc. - Italy | Imed Bouazizi | 4.8 |
| [**S4aI221283**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221283.zip) | [5MBUSA] 5GMS via eMBMS - Procedures | Qualcomm CDMA Technologies | Thomas Stockhammer | 4.7 |

An agenda was provided in email and was approved.

# 2 IPR and Anti-trust Reminder

Available in : [**S4-201473**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_111-e/Docs/S4-201473.zip)

# 3 Reports/Liaisons

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| [**S4aI221278**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221278.zip) | Report of SA4 MBS SWG AH Telco (9th December 2021) | MBS SWG Chair | Frederic Gabin |

**S4aI221278** is **noted.**

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| --- | --- | --- | --- |
| [**S4aI221279**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221279.zip) | Report of SA4 MBS SWG AH Telco (16th December 2021) | MBS SWG Chair | Frederic Gabin |

**S4aI221279** is **noted.**

# 4 List of Work Items for submission of Contributions in the current meeting

## 4.0 Introduction

Agenda Items 4.1 to 4.3, as well as 4.9 to 4.13 are not part of MBS SWG.

## 4.4 FS\_5GMS\_EXT

WID: [SP-200937](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_90E_Electronic/Docs/SP-200937.zip)

Time Plan: [S4-211316](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211316.zip)

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| [**S4aI221276**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221276.zip) | [FS\_5GMS\_EXT] TV-grade mass distribution of unicast Live Services | Qualcomm CDMA Technologies | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer (Qualcomm)

**Discussion**:

**Decision**:

**S4aI211276** is **postponed.**

## 4.5 FS\_NPN4AVProd

WID: [SP-210241](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_91E_Electronic/Docs/SP-210241.zip)

Time Plan: [S4-211602](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211602.zip)

No Documents

## 4.6 EVEX (5GMS AF Event Exposure)

WID: [SP-210374](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_92E_Electronic_2021_06/Docs/SP-210374.zip)

Time Plan: [S4-211605](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211605.zip)

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| [**S4aI221277**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221277.zip) | Update of config and report API resource structure for 26.532 | Ericsson LM, BBC, Qualcomm Incorporated | Gunnar Heikkilä |

**Presenter**: Gunnar Heikkilä (Ericsson)

**Discussion**:

* Gunnar: We can keep this document as a placeholder. The question is: Should I revise it? I would prefer to revise it and not put it in the main document.
* Richard: That’s a good idea to retain the comments.

**Decision**:

* Revised to 1284.

**S4aI221277** is **revised to S4aI221284.**

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| [**S4aI2212**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221277.zip)**84** | Update of config and report API resource structure for 26.532 | Ericsson LM, BBC, Qualcomm Incorporated | Gunnar Heikkilä |

**Decision**:

* 1284 is postponed.

**S4aI221284** is **postponed.**

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| --- | --- | --- | --- |
| [**S4aI221281**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221281.zip) | 3GPP Event Exposure Framework | Qualcomm CDMA Technologies | Charles Lo |

**Presenter**: Charles Lo (Qualcomm) and Richard Bradbury (BBC)

**Discussion**:

* Maria Liang (Ericsson): slide 3, network information is not defined for DC-AF in TS 23.288, only UE related information is defined.
	+ Charles: OK, thank you for that.
* Maria : In the slide 13, seems CT3 is waiting SA4 implement “QoE metrics” contents /data type, so that 29.517 can define or reuse the data type to support this, according to the editor’s note in table 6.4.2-1 in TS 23.288.
	+ Gunnar: This is related to discussions in SA4. This is not defined in liaison. This question could relate to how we expose those to CT3 for example.
	+ Maria : In CT3 we don’t have such details. One approach could be that the content is specified by SA4 and followed by CT3.
	+ Charles: SA2 has already bundled QoE metrics.
	+ Juan Zhang (Qualcomm): What is in the table is frozen by SA2. More details on QoE metrics should be datilled by SA4.
	+ Richard: SA2 put an editor’s note in the table, we (SA4) need to fill it.
	+ Xuefei (CT3 - Huawei): QoE metrics are not implemented yet in CT3. The issue is that QoE metrics are not yet defined at stage 2 by SA2 or SA4.
	+ Frédéric: Let's take this action in SA4. But what kind of format is required at stage 2 level?
	+ Abdessamad El Moatamid (CT3 - Huawei): Currently we are using Open API. We just need a clear description of metrics.
* Juan Zhang (Qualcomm) - Slide 14: If SA4 have its own requirement, SA2 will not block
* Maria - Slide 15: What is in the event exposure and what is in the reporting? It could be interesting to separate them.
	+ Richard: It is quite philosophical, e.g. is the report just a collection of events
* Mehrdad (SA2 - Samsung): It is not clear what 5GMS QoE means. What is needed from a SA2 perspective is to map these requests with SA2 metrics.
* Abdessamad El Moatamid : In which WI this work will go in SA2 and CT3?
	+ Charles : We could expand 26.502.
* Charles : As we have no more time, can we have a follow-up call? Wednesday 26th?
* All : Seems ok on Wednesday 26th one hour earlier.
* Abdessamad: I still see 2 issues : one on which WI the other on the timing.
* Gunnar: We should also use email discussions.
* Frederic: The best is to send questions to Charles (the rapporteur) via emails. He will manage the email exchanges.
* Yali (CT3 chair): CT3 will have a meeting during the entire week. So CT3 will be quite busy for the email discussion.

**Decision**:

* 1281 hasn’t been completely processed. So it is postponed.

**S4aI221281** is **postponed.**

## 4.7 5MBUSA (5G Multicast-Broadcast User Service Architecture and related 5GMS Extensions)

WID:[SP-210376](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_92E_Electronic_2021_06/Docs/SP-210376.zip)

Time Plan: [S4-211644](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211644.zip)

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| [**S4aI211271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI211271.zip) | [5MBUSA] Static domain model and baseline parameters | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury (BBC)

**Discussion**:

* Richard: How do we announce multiple sessions? It is not clear for now. Does each session has its own TMGI?
	+ Thorsten: Not necessarily. When we send the video with 2 audio, it might be possible to use push or different URLs, … It could make sense to not link sessions and use different TMGI.
	+ Richard: If it is the case, would each service announcement need to be bundled to describe each FLUTE session ?
	+ Thorsten: I think so. In principle it is a single service with multiple transport services.
* Richard: I will prepare a revision.

**Decision**:

* Revised to 1285.

**S4aI221271** is **revised to S4aI221285.**

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| [**S4aI211273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI211273.zip) | Discussion on dependency clarification for 5MBUSA | Huawei Technologies R&D UK | Qi Pan |

**Presenter**: Qi Pan (Huawei)

**Discussion**:

* Frederic: The issue is that the WI has already been approved in SA.
* Thorsten: How to make this clear? We send an LS with the list of features?
	+ Qi: We can write the list in the meeting minutes.
* Thorsten: MBSF has also been partially defined by SA2.
	+ Richard: 23.247 already specified that the MBSF and MBSTF can support x-MB/MB2. This is already solved and SA4 doesn’t plan anything new in Rel-17 on this topic.
* Charles: What is MCX?
	+ Thorsten: MCVideo, MCData, …

**Decision**:

* Noted.
* *It is agreed that 23.247 already specified that the MBSF and MBSTF can support x-MB/MB2. This is already solved and SA4 doesn’t plan anything new in Rel-17 on the supported features of MBSF and MBSTF. [this text was added as proposed by Huawei]*

**S4aI221273** is **noted.**

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| [**S4aI221280**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221280.zip) | [5MBUSA] MBS Distribution Session life-cycle model | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury (BBC)

**Discussion**:

* Richard: Do we need to specify garbage collection by MBSF?
	+ Frédéric: I think it is implementation specific. We don’t need to specify that.
* Frederic: In 4.6.1, bullet 1, why MBS distribution Session shall remain. Should may be more appropriate and maybe we should add an explicit stop state.
* Qi: If we add the stop state, we need to add a start state?
	+ Richard: Yes, we need to know where it begins.
* Frederic: I assume you will still work on this.
	+ Richard : Yes. I will revise it.

**Decision**:

**Decision**:

* Revised to 1286.

**S4aI221280** is **revised to S4aI221286.**

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| [**S4aI221283**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221283.zip) | [5MBUSA] 5GMS via eMBMS - Procedures | Qualcomm CDMA Technologies | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer (Qualcomm)

**Discussion**:

* Thorsten: There needs to be a clear distinction between eMBMS consumption reporting and 5GMS consumption reporting.On metrics reporting, there is the object loss metrics. Is this metrics sent to PSH, BMSC…?
	+ Thomas: MBMS is not deployed. The idea is to connect to 5GMS. We need to basically allow this in 5GMS. The MSH would do the report.
	+ Thorsten: On metrics reporting, I am not sure the object loss metric is relevant in the 5GMS system. My thinking is that we could deactivate eMBMS reporting when 5GMS reporting is used.
	+ Thorsten: eMBMS has push and pull mode. In 5GMS, push ingest is not implemented. We will need to take care about supporting push.
	+ Richard: Is push needed?
	+ Thorsten: It is fine to leave it to implementation but maybe we could indicate to take care.
* Thomas: OK, I will do a revision. Maybe we should not specify all the details as we will implement it with the reference tool.
* Thorsten: One trick could also be that the MBMS client could also push metrics to 5GMS AS over HTTP.

**Decision**:

* Revised.

**S4aI221283** is **revised to S4aI221287.**

### 4.8 5GMS\_EDGE (Edge Extensions to the 5G Media Streaming Architecture)

WID:[SP-210375](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_92E_Electronic_2021_06/Docs/SP-210375.zip)

Time Plan: [S4-211677](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211677.zip)

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| [**S4aI221282**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI221282.zip) | dCR on Edge Provisioning for Media Services | QUALCOMM Europe Inc. - Italy | Imed Bouazizi |

**Presenter**: Imed Bouazizi (Qualcomm)

**Discussion**:

* BBC version was presented.
* Richard: As indicated in my comments, some clauses could be added.
	+ Imed: These are all good points.
* Charles: Do we plan a CR for 26.501?
	+ Imed: Yes.
* Imed: I will keep refining this.

**Decision**:

* Noted. Expect a revision at the next telco.

**S4aI221282** is **noted.**

## 4.14 TEI17 and any other Rel-17 matters

No documents.

# 5 Review of the future work plan

**MBS SWG AH Telcos:**

- 3 Feb. 15:00 – 17:00 CET

Detailed time plans

* EVEX (5GMS AF Event Exposure): [S4-211605](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211605.zip)
* 5GMS\_EDGE (Edge Extensions to the 5G Media Streaming Architecture): [S4-211677](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211677.zip)
* 5MBUSA (5G Multicast-Broadcast User Service Architecture and related 5GMS Extensions): [S4-211644](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211644.zip)
* FS\_5GMS\_EXT (Study on 5G media streaming extensions): [S4-211656](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211656.zip)
* FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN): [S4-211602](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_116-e/Docs/S4-211602.zip)

# 6 Close of the session

The meeting was closed at 18:00 CET.

# 7 Attendees

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| Meeting Summary |
| Total Number of Participants | 49 |
| Meeting Title | 3GPP SA4 MBS SWG post 116-e telco (Jan 13, 2022) |
| Meeting Start Time | 1/13/2022, 2:46:20 PM |
| Meeting End Time | 1/13/2022, 6:05:20 PM |
|   |   |   |   |
| Full Name | Join Time | Duration | Email |
| Xinyang-Huawei (来宾) | 2:46:20 PM | 1h 14m |   |
| Charles Lo | 2:52:14 PM | 3h 11m | clo@qti.qualcomm.com |
| Gunnar Heikkilä | 2:53:23 PM | 3h 18m | gunnar.heikkila@ericsson.com |
| Qi Pan - Huawei (来宾) | 2:57:12 PM | 3h 6m |   |
| [Samsung] Naren Tangudu (Guest) | 2:57:39 PM | 1h 19m |   |
| Samsung - Eric Yip (Guest) | 2:57:56 PM | 14m 44s |   |
| Gabin, Frederic | 2:58:01 PM | 3h 5m | Frederic.Gabin@dolby.com |
| Maria Liang | 2:58:28 PM | 1h 6m | maria.liang@ericsson.com |
| Thomas Stockhammer | 2:58:56 PM | 54m 23s | tsto@qti.qualcomm.com |
| Thomas Stockhammer | 4:09:17 PM | 1h 54m | tsto@qti.qualcomm.com |
| [Huawei] Xiaoyun Zhou (来宾) | 2:59:01 PM | 1h 9m |   |
| Yali Yan (CT3 Chair) (来宾) | 2:59:15 PM | 1h 8m |   |
| Igor Pastushok | 2:59:25 PM | 1h 6m | igor.pastushok@ericsson.com |
| Juan Zhang (WRD-Beijing) | 2:59:55 PM | 1h 6m | juanzhan@qti.qualcomm.com |
| He, Shane (Nokia - FR/Paris-Saclay) | 3:00:14 PM | 3h 3m | shane.he@nokia.com |
| Li Yongjing-China Mobile (来宾) | 3:00:14 PM | 1h 4m |   |
| [Huawei] Abdessamad El Moatamid (Guest) | 3:00:15 PM | 1h 3m |   |
| Waqar Zia | 3:00:22 PM | 1h 5m | wzia@qti.qualcomm.com |
| Imed Bouazizi | 3:00:30 PM | 3h 2m | BOUAZIZI@qti.qualcomm.com |
| Ravindran, Parthasarathi (Nokia - IN/Bangalore) | 3:00:32 PM | 1h 3m | parthasarathi.ravindran@nokia.com |
| Xin Wang | 3:00:44 PM | 3h 25m |   |
| Samsung - Hyunkoo Yang (게스트) | 3:00:46 PM | 2h 1m |   |
| Natarajan, Rajesh Babu (Nokia - IN/Bangalore) | 3:00:59 PM | 1h 2m | rajesh\_babu.natarajan@nokia.com |
| Sungryeul Rhyu - Samsung (Guest) | 3:01:05 PM | 3h 3m |   |
| Dawes, Peter, Vodafone | 3:01:12 PM | 1h 3m | Peter.Dawes@vodafone.com |
| LEMOTHEUX Julien INNOV/IT-S | 3:01:14 PM | 3h 2m | julien.lemotheux@orange.com |
| Luetzenkirchen, Thomas | 3:01:33 PM | 1h 3m | thomas.luetzenkirchen@intel.com |
| Thorsten Lohmar | 3:01:38 PM | 1h 30m | thorsten.lohmar@ericsson.com |
| Thorsten Lohmar | 4:37:00 PM | 1h 26m | thorsten.lohmar@ericsson.com |
| Xuefei(Huawei) (来宾) | 3:01:39 PM | 1h 3m |   |
| Stefan Håkansson LK | 3:02:22 PM | 1h 14m | stefan.lk.hakansson@ericsson.com |
| Richard Bradbury | 3:02:53 PM | 3h  | richard.bradbury@bbc.co.uk |
| Gibellino Diego | 3:03:31 PM | 1h 49m | diego.gibellino@telecomitalia.it |
| Christophe Burdinat | 3:03:38 PM | 2h  | c.burdinat@ateme.com |
| Samsung- Mehrdad Shariat (Guest) | 3:05:01 PM | 1h 2m |   |
| Jungshin Park (Samsung) | 3:06:09 PM | 58m 54s |   |
| Iraj Sodagar | 3:07:58 PM | 12h 41m |   |
| Jayeeta Saha | 3:09:43 PM | 51m 25s | Jayeeta.Saha@3gpp.org |
| Samsung - Eric Yip (Guest) | 3:09:55 PM | 2h 53m |   |
| Yuan Wang - Huawei (来宾) | 3:15:21 PM | 49m 43s |   |
| Stephane Onno | 3:23:15 PM | 2h 40m | Stephane.Onno@InterDigital.com |
| Prakash Reddy Kolan | 3:24:03 PM | 2h 17m | p.kolan@samsung.com |
| Peng Tan | 3:26:56 PM | 1h  | peng.tan@telus.com |
| Peng Tan | 5:03:19 PM | 1h 25m | peng.tan@telus.com |
| LGE - Woosuk Kwon (게스트) | 3:31:30 PM | 2h 31m |   |
| China Unicom-Shuai Gao (来宾) | 3:50:02 PM | 1h 8m |   |
| Shan Wey (Verizon) (Guest) | 3:57:44 PM | 2h 5m |   |
| Szucs, Paul | 4:10:45 PM | 1h 52m | Paul.Szucs@sony.com |
| China Unicom-Xufei Dong (來賓) | 4:14:29 PM | 52m 3s |   |
| HU, JAMES | 4:27:41 PM | 1h 39m | QH8316@att.com |
| Samsung - Hyunkoo Yang | 5:02:41 PM | 1h 2m |   |
| Peng Tan - TELUS | 5:26:29 PM | 36m 54s |   |

1. M. Frédéric Gabin  frederic.gabin@dolby.com +33 6 78 44 85 75 [↑](#footnote-ref-1)