|  |  |
| --- | --- |
| **Rapporteur Meeting of Questions 1, 2, 3 and 5** | **TD-06** |
| **TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2013-2016 | **STUDY GROUP 16** |
| **Original: English** |
| **Question(s):** | 5/16 | Seoul, 3 - 7 November 2014 |
| **RAPPORTEUR MEETING DOCUMENT** |
| **Source:** | Rapporteur |
| **Title:** | Meeting Report for Q5/16 |
| **Purpose:** | Report |

**Summary**

Question 5/16 considered 17 contributions related to H.TPS-AV and H.TPS-Sig. The respective drafts were edited based on accepted proposals from the meeting. Q5/16 prepared one outgoing Liaison Statement to SG12 and its experts will meet next during the SG16 16 meeting planned in Geneva, Switzerland, 09 February-20 July 2015.

# Question 5/16 – Telepresence Systems

The Question 5/16 (Telepresence Systems) experts meeting was held in Seoul, South Korea during the week of 3-7 November 2014. The meeting was chaired by the Q5/16 Rapporteur, Mr. Stephen Botzko. Q3 and 5/16 met concurrently and joint sessions were held among the Questions.

## Question 5/16 – Telepresence Systems

The objectives for this meeting were to:

* Coordinate with other Questions
* Progress Topics related to
	+ H.TPS-AV
	+ H.TPS-SIG
* Consider new material

# Documentation

Documents considered by Q5/16 at this meeting can be found in the AVC documents area at <http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo>.

* AVD: [4620](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4620.zip), [4627](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4627.zip), [4628](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4628.zip), [4630](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4630.zip), [4631](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4631.zip), [4638](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4638.zip), [4643](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4643.zip), [4644](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4644.zip), [4646](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4646.zip), [4647](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4647.zip), [4648](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4648.zip), [4651](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4651.zip), [4652](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4652.zip), [4553](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4653.zip), [4656](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4656.zip), [4657](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4657.zip), [4658](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4658.zip) (17 Contributions);
* TDs: [04](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-04.zip), [06](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-06.zip), [17](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-17.zip), [19](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-19.zip), [25](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-25.zip), [28](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-28.zip), [29](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-29.zip)

## Review of the Meeting Agenda

The draft agenda [TD-04](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-04.zip) was accepted, however it was noted that small changes were made during the meeting.

## Intellectual property statements

Members were reminded to make disclosures of known patents to the ITU Secretariat as defined in the IPR policy in a timely manner. To the question “does anyone have knowledge of patents or pending patent applications, the use of which may be required to implement Recommendations being considered?”, no answers were received.

## Incoming liaison statements

|  |  |  |
| --- | --- | --- |
| [AVD-4647](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4647.zip) | LS/i on new Recommendation on QoE requirements of telepresence services [from ITU-T SG12] | SG12 |

This Liaison informs Q5 of the recent approval of ITU-T Rec. G.1091. The scope of G.1091 observes that “…it is expected that this Recommendation will be updated as more experience is gained with Telepresence systems.”

G.1091 is related to H.TPS-AV

Q5 experts observed that unfortunately some text in clauses 7, 10 and 11 is not aligned with the text of Q5’s H.TPS-AV draft. Some specific misalignments include:

-The weighted Terminal Coupling Loss in clause 7.6 has a different recommended value from the weightedMicrophoneLoudspeakerCouplingLoss parameter in H.TPS-AV.

-The Lip Sync parameter in clause 10.2 has a different recommended value from the audioVideoSynchronization parameter in H.TPS-AV

-The background noise parameter in clause 11.1 has a different recommended value from the ambientNoise parameter in H.TPS-AV

In addition Q5 experts stressed the importance of ensuring that the scope of G.1091 be crafted to prevent any confusion with H.TPS-AV’s scope.

Q5 decided to send a response liaison to SG12 pointing out the misalignments, and indicating that a more detailed follow-up response will be sent during the upcoming Geneva meeting.

The following liaison statements were considered jointly with question Q3/16.

|  |  |  |
| --- | --- | --- |
| [AVD-4646](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4646.zip) | LS/i on JCA-Res178 requests your further input [from JCA-Res178] | JCA on PP-10 Resolution 17 |

Q5 experts noted that Q5 recommendation and drafts generally don’t distinguish between private IP networks and the internet. Quality of Service and security requirements might be somewhat different on the two networks types.

|  |  |  |
| --- | --- | --- |
| [AVD-4648](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4648.zip) | Question ITU-R 45-5/6 "Broadcasting of multimedia and data applications" | TSB |

This was noted.

# Discussionssidered with questionscom

## H.TPS-AV

|  |  |  |
| --- | --- | --- |
| [AVD-4656](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4656.zip) | H.TPS-AV "Audio/Video Parameters for Telepresence systems" (New): Input Draft | Editor H.TPS-AV |

This was accepted as input text.

|  |  |  |
| --- | --- | --- |
| [AVD-4627](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4627.zip) | H.TPS-AV: CLUE framework alignment | Huawei Technologies Co. Ltd. |

This was accepted with editorial refinements.

|  |  |  |
| --- | --- | --- |
| [AVD-4628](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4628.zip) | H.TPS-AV: Living List Item Discussion | Huawei Technologies Co. Ltd. |

This was accepted.

|  |  |  |
| --- | --- | --- |
| [AVD-4630](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4630.zip) | H.TPS-AV: Summaries | Huawei Technologies Co. Ltd. |

This was accepted with editorial refinements.

|  |  |  |
| --- | --- | --- |
| [AVD-4631](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4631.zip) | H.TPS-AV: Signalling audio level | Huawei Technologies Co. Ltd. |

This was largely accepted with editorial refinements. There is no agreement yet on the need for signalling the nominal audio level. Experts agreed that the measurement should be per RFC 6464, but some clarification is still needed on exactly how the measurement is made. Further contributions are solicited.

|  |  |  |
| --- | --- | --- |
| [AVD-4657](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4657.zip) | H.TPS-AV: Parameter Names | Polycom |

The new names in table 2 were accepted with some adjustments. The recommendation to remove NumAudioCapture and NumVideoCapture was accepted.

|  |  |  |
| --- | --- | --- |
| [AVD-4658](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4658.zip) | H.TPS-AV: Parameter Interfaces | Polycom |

This was accepted, with the name “interfaces” changed to “signalling mechanism”

|  |  |  |
| --- | --- | --- |
| [TD-28](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-28.zip) | H.TPS-AV "Audio/Video Parameters for Telepresence systems" (New): Output Draft | Editor H.TPS-AV |

This was accepted as output text.

## H.TPS-SIG

|  |  |  |
| --- | --- | --- |
| [AVD-4638](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4638.zip) | H.TPS-SIG "Signalling for telepresence-enabled conferencing" (New): Input Draft | Editor H.TPS-SIG |

This was accepted as input text.

|  |  |  |
| --- | --- | --- |
| [AVD-4620](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4620.zip) | Support of WebRTC Datachannel transport in H.TPS-SIG | Huawei Technologies Co. Ltd. |

This was accepted.

|  |  |  |
| --- | --- | --- |
| [AVD-4643](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4643.zip) | H.TPS-SIG: Capability Exchange | Huawei Technologies Co. Ltd. |

This was accepted with some editorial refinement. There was general agreement that media is sent in response to a CLUE *Configure* without regard to the receive capability set of the consumer.

There was general agreement that H.TPS-SIG will not support both H.245 transport and the webRTC data channel for CLUE carriage – these are exclusive choices, with the final decision not yet made.

|  |  |  |
| --- | --- | --- |
| [AVD-4644](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4644.zip) | Update of SCTP transport in H.TPS-SIG | Huawei Technologies Co. Ltd. |

This was accepted with some editorial refinement.

|  |  |  |
| --- | --- | --- |
| [AVD-4651](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4651.zip) | H.TPS-SIG: Interaction of CLUE protocol and H.323 protocol stack | ZTE |

This was accepted with some editorial refinement.

|  |  |  |
| --- | --- | --- |
| [AVD-4652](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4652.zip) | H.TPS-SIG: Basic call session setup | ZTE |

This was accepted with some editorial refinement.

|  |  |  |
| --- | --- | --- |
| [AVD-4653](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/AVD-4653.zip) | H.TPS-SIG: Carry encodingID in OLC message | ZTE |

Experts agreed that the encodingID should be carried in the OLC message. After discussion, the proposal was amended to use the extendedVideoCapability facility in H.245 (binding the encodingID to the media capability in the same way that H.239 binds the role to the media capability).

Experts noted that some changes to H.245 are needed, since the extended capability is not currently available for audio and data capabilities. Experts also noted that the transmit capabilities in H.TPS-SIG also need to use this mechanism.

|  |  |  |
| --- | --- | --- |
| [TD-19](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-19.zip) | H.TPS-SIG "Signalling for telepresence-enabled conferencing" (New): Input Draft | Editor H.TPS-SIG |

This was accepted as input text.

## New Material

None.

# Presentation of Reports

The draft report for Q5/16 was reviewed and the experts accepted its content. The report can be found in [TD-06](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-06.zip).

# Outgoing liaison statements

One output Liaison to SG12 was prepared at this meeting – *Reply LS to SG12 on new Recommendation on QoE requirements of telepresence services*. It can be found in [TD-29](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-29.zip).

# Work programme

#### Future work

E-mail correspondences pertaining to the activities of this group are routinely conducted using the e-mail reflector currently hosted by the ITU, t13sg16q5@lists.itu.int, as well as the mailing list hosted by Packetizer, sg16-avd@lists.packetizer.com.

Those wishing to subscribe or unsubscribe to e-mail reflectors hosted by ITU should follow the instructions at [http://itu.int/ITU-T/edh/faqs-email.html](http://www.itu.int/ITU-T/edh/faqs-email.html). Those wishing to subscribe or unsubscribe to the Packetizer reflector should follow the instructions at: <http://lists.packetizer.com/mailman/listinfo/sg16-avd>.

Rapporteur group documentation can be found in the external FTP server for Q5/16 located at <http://ftp3.itu.int/av-arch/avc-site>.

The Question did not start any new work items at this meeting and the currently open work items for Q5/16 are as follows:

| Acronym | Title | Editor | Consent / Approval | Reference |
| --- | --- | --- | --- | --- |
| H.TPS-AV | Audio/Video Parameters for Telepresence systems  | S. Botzko (Stephen.Botzko@polycom.com) | 2015 | [TD-28](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-28.zip) |
| H.TPS-SIG | Signalling for telepresence-enabled conferencing | A. Martin de Nicolas(arturo.martin-de-nicolas@ericsson.com) | 2015 | [TD-19](http://ftp3.itu.int/av-arch/avc-site/2013-2016/1411_Seo/TD-19.zip) |

#### Future meetings

Question 5/16 is planning to meet at the next Study Group 16 meeting 09 – 20 February 2015 in Geneva, Switzerland.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_