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| The International Teleocmmunication Union - Connecting the World. | | **International telecommunication union**  **Telecommunication Standardization Bureau** | |  |
|  | | | Geneva, 20 December 2019 | |
| **Ref:** | **TSB Circular 223** | | **To:**  - Administrations of Member States of the Union;  - ITU-T Sector Members;  - ITU-T Associates;  - ITU Academia | |
| **Tel:** | +41 22 730 6828 | |
| **Fax:** | +41 22 730 5853 | |
| **E-mail:** | [tsbsg12@itu.int](mailto:tsbsg12@itu.int) | | **Copy to:**  - The Chairmen and Vice-Chairmen of  Study Groups;  - The Director of the Telecommunication Development Bureau;  - The Director of the Radiocommunication Bureau | |
| **Subject:** | **Call for Participation – Development of a computational model to assess QoS and QoE of videotelephony services** | | | |

Dear Sir/Madam,

ITU-T Study Group 12 (Performance, Quality of Service, Quality of Experience) is calling for participation in a collaborative project to develop a computational model to assess QoS and QoE of videotelephony services in the context of its G.CMVTQS work item.

The expected output of the project consists of a set of parametric objective quality assessment models that predict the quality of single-channel bidirectional videotelephony calls comprising both audio and video components.

ITU Member States, ITU-T Sector Members, ITU-T Study Group 12 Associates, ITU Academia shall confirm their intention to participate in this project under the framework described in Annex A by sending an e-mail to the ITU secretariat ([tsbsg12@itu.int](mailto:tsbsg12@itu.int)) by Friday, 7February 2020.

Yours faithfully,

Chaesub Lee  
Director of the Telecommunication  
Standardization Bureau

# Annex A to TSB Circular 223 Call for participation in work item G.CMVTQS: “Computational model used as a QoE/QoS monitor to assess videotelephony services”

(Reference: [SG12-TD977R1](https://www.itu.int/dms_inf/itu-t/md/17/sg12/td/191126/GEN/T17-SG12-191126-TD-GEN-0977!R1!MSW-E.docx))

During its last meeting in December 2019, ITU-T Study Groupe 12 “Performance, QoS and QoE” agreed to launch a call for participation for a new collaborative project developed under the responsibility of Q15/12, entitled G.CMVTQS: “Computational model used as a QoE/QoS monitor to assess videotelephony services”.

The expected output of this project consists of a set of parametric objective quality assessment models based on sets of parameters calculation, that predict the quality of single-channel bidirectional videotelephony calls comprising both audio and video components.

The G.CMVTQS models do not assess anything other than the audio and video components of the services (i.e., they do not cover document sharing, chat, nor augmented reality context) and when both are used in conjunction. The focus is put on pure audio-visual communications and on one single dimension of quality: integrity, i.e., the quality experienced by the end-user during usage (availability and maintainability of services are out of the scope). The targeted devices stem from home TV screens to smartphones.

The inputs of the G.CMVTQS models are network and stream related parameters obtained at the endpoint either during or at the end of the usage of the videotelephony service to analyze the status of the communication in terms of QoS. The main factors affecting the quality of videotelephony service include video and audio quality factors, audiovisual quality factors, and network transmission loss factors.

G.CMVTQS models predict audio-visual Mean Opinion Scores (MOS) on a 5-point ACR scale (as per Recommendation ITU-T P.910) as a global multi-media MOS score, together with underlying quality estimations for audio, video, delay and synchronization between audio and video (as defined in Recommendation ITU-T P.911).

The framework of this call for participation is as follows:

* Only Mode0 of the G.CMVTQS work item is subject of this call for participation.
  + Mode0 is based on parameters calculation; though its development is based on WebRTC, other videotelephony services can also use it. More details can be found in [SG12-TD980R2](https://www.itu.int/dms_inf/itu-t/md/17/sg12/td/191126/GEN/T17-SG12-191126-TD-GEN-0980!R2!MSW-E.docx).
* The development of Mode0 of the G.CMVTQS work item will be conducted within the scope defined in the documents concerning terms of reference ([SG12-TD980R2](https://www.itu.int/dms_inf/itu-t/md/17/sg12/td/191126/GEN/T17-SG12-191126-TD-GEN-0980!R2!MSW-E.docx)) and subjective methods ([SG12-TD979R1](https://www.itu.int/dms_inf/itu-t/md/17/sg12/td/191126/GEN/T17-SG12-191126-TD-GEN-0979!R1!MSW-E.docx)).
* Mode0 of the G.CMVTQS work item will be developed in collaboration. How this collaboration will be organized is left to decide by the parties involved.
* The minimum number of parties involved in the development of Mode0 will be 2, and there is no upper limit.
* Each party answering positively the call for participation must commit to produce at least a new subjective database conducted following [SG12-TD 979R1](https://www.itu.int/dms_inf/itu-t/md/17/sg12/td/191126/GEN/T17-SG12-191126-TD-GEN-0979!R1!MSW-E.docx).

Any ITU Member State, ITU-T Sector Member, ITU-T Study Group 12 Associate, ITU Academia shall confirm their intention to participate in this project under the framework described above by sending an e-mail to the ITU secretariat ([tsbsg12@itu.int](mailto:tsbsg12@itu.int)).

The deadline to respond to the call for participation is Friday, 7 February 2020.