

December 14, 2023

General Information in response to the Questionnaire from Sri Lanka
regarding “ISDB-T Standards of Sri Lanka”

Thank you for waiting our comments in response to the above subject.

We have analyzed, studied and discussed those points raised in the questionnaire; and the results are reflected in the attached sheet.

Before you start checking the attachment, we would like to call your kind attention to the following points,, explaining our basic idea in establishing the entire concepts in the “ISDB-T Standards of Sri Lanka” which, while containing localized features unique to Sri Lanka, yet have commonalities with other ISDB-T adopting countries;

1. In respect to the video coding;

The ISDB-T is a digital terrestrial TV standard being adopted in 20 countries in the world. As its video coding technologies, H.264/MPEG-4 AVC for the full-segment broadcasting (except in the case of Japan where H.262/MPEG-2 Video is deployed for the full-segment broadcasting), and H.264/MPEG-4 AVC for the one-segment broadcasting are deployed.

To accommodate Sri Lanka’s intention to utilize H.265/HEVC for the full-segment broadcasting as the video coding, we designed the “ISDB-T Standards for Sri Lanka” accordingly.

As for the one-segment broadcasting technology, while the full-segment broadcasting adopts the H.265/HEVC, in view of the possibility that the one-segment receivers, because they are portable-types, are likely to be used beyond the Sri Lankan territory (in other ISDB-T adopting countries);, and also supposing that it would be quite difficult for the receiver product suppliers to newly develop a video decoding device for the one-segment broadcasting, in due consideration of the interoperability and low cost of these receivers commonly used in those countries, we propose to keep the H.264/MPEG-4 AVC as the video coding for one-segment reception.

2. In respect to the video format for the full-segment broadcasting; Should the video format for the full-segment broadcasting be only for HDTV?

In the “ISDB-T Standards of Sri Lanka”, on Table A2-2 in the Annex-2 “Video coding”, 1080i (Interlaced) and 1080p (Progressive) are defined as video coding parameters for the full-segment broadcasting service. With these parameters it is

possible to provide full-segment broadcasting services in Sri Lanka.

We proposed the above “ISDB-T Standards of Sri Lanka”, quite similar to those standards of other ISDB-T countries, minimizing the technical differences from the standards of other ISDB-T adopting countries, with the SDTV specifications included,

It is up to the decision by each of the ISDB-T adopting government whether or not to operate SDTV broadcasting services.

Therefore we do not see any problem even though the “ISDB-T Standards of Sri Lanka” contains the SDTV specifications in its national standard.

Please note that the video formats of SDTV referred to in the ABNT standards are 480i and 480p; and these figures are modified to 576i and 576p respectively, adapting to Sri Lanka.

3. In respect to the ISDB-T video decoding by TV receivers (including set-top boxes)

It is essential for the receivers (including set-top boxes) to decode H.265/HEVC in order to receive full-segment video signals. On the other hand, the decoding of H.264/MPEG-4 AVC is described as an option in the “ISDB-T Standards of Sri Lanka.”; and that it would be up to the discretion of receiver product suppliers whether or not to decode the one-segment H.264/MPEG-4 AVC.

We would appreciate our idea as above, and then kindly read and check our comments as shown in the attachment.