



SEYCHELLES BROADCASTING CORPORATION

Recommendations for Television (TV) Sets Specifications to Receive SBC's Digital Television Transmissions

This document provides a concise summary of the standards and specifications which the SBC is recommending for Television Sets for proper reception of SBC's DTT channels.

The Standards

The Seychelles Broadcasting Corporation (SBC) will be migrating to Digital Terrestrial Television (DTT) transmission soon.

The digital broadcasting standard adopted by the Republic of Seychelles is **DVB-T2** (Digital Video Broadcasting — Second Generation Terrestrial)

The video encoding used by SBC's DTT system is **HEVC** (High Efficiency Video Coding), also known as H.265.

SBC Free-to-View Channels

SBC has decided not to encrypt its Free-to-View bouquet of channels. These channels will be Free-to-Air. Consequently, any STB or TV set that meets the above-mentioned standards will receive these non-encrypted channels.

SBC is recommending that all TV Sets that enters the country from now on supports the DVB-T2 and HEVC standards.

- Consumers who have these types of TV sets will not require a Set-Top-Box to receive SBC's Free-to-Air channels.
- Conversely, TV sets that do not have the above-mentioned specifications will require a Set-Top-Box (STB) to decode the signal for the TV set. The STB does not need to be an SBC-issued one, provided it meets the DVB-T2 and HEVC standards.

Allowance for encrypted channels in the future

In addition to the Free-to-Air Channels, SBC could be broadcasting encrypted paid subscription channels in the future. In order to receive encrypted channels, consumers will require an SBC-issued STB or Conditional Access Modules (CAMs).

Consequently, **SBC is also recommending that TV sets should also have a Common Interface (CI) slot**. The slot will allow for CAMs modules that can do the job of decoding encrypted signals, should there be a need, for example to decrypt commercially available encrypted channels.

It is important to note that SBC's DTT signal encryption is based on proprietary *Nagra* encryption. Consequently, **whilst off-the-shelf STBs or other commercially available decoders would be able to decode SBC's Free-to-Air channels, they will NOT be able to decode SBC's encrypted channels.**

Catering for OTT

Over-the-Top (OTT) services will invariably be part of the broadcasting landscape in the future. OTT is received via the Internet. In order to future-proof the television for this technology, it is also recommended that TV Sets have an integrated (in-built) Ethernet (IP) Port that can connect to the internet for such purposes.

The following is a summary of the minimum recommended requirements for a TV set to receive SBC's DTT Signal (**without the use of a Set-Top Box (STB)**)

| Line | Description | Standard | Notes |
|------|---|---|---|
| 1 | BROADCASTING/Digital Tuner | DVB-T2 | Mandatory T2 Transport stream |
| 2 | Video compression Codec | HEVC (H.265) | This is supported on most 4K-Resolution TVs |
| 3 | CI+ (Common Interface Plus) slot | Required for encrypted subscription services | allows you to insert a removable card (or CAM - Conditional Access Module) that allows your TV to receive and unscramble information from a particular digital TV service without an STB |
| 4 | Minimum resolution for HD | 1920 x 1080 | |
| 5 | HDMI connection | Recommended | For enhanced viewing experience |
| 6 | Ethernet connection | Recommended | For OTT and other Internet-based Services |
| 7 | EPG (Electronic Programme Guide) | Recommended | FOR PROGRAM GUIDE INFORMATION |
| 8 | Power Supply | AC220-240V 50/60Hz | |

Notes:

- SBC DTT broadcast codec used is HEVC and TV set must be able to decode HEVC to view content without a HEVC-capable STB
- SBC DTT signal encryption is based on proprietary *Nagra* encryption