**>> PATCH : [VT] Disable SBR PS formats**

**File : tsdec\_dsc.cpp**

if ((self->m\_sbrPresentFlag == 1) || (self->m\_psPresentFlag == 1)) {

+ ALOGE("VT: Disable SBR PS");

+ ErrorStatus = TRANSPORTDEC\_UNSUPPORTED\_FORMAT; // VT: Disable SBR PS

+ }

Please find below the analysis of the logs and conclusion.

From the latest logs we can confirm that the file SBR\_LFEtest5\_1.mp4 which is not being played after the modifications  is parsed  as   audio object type m\_aot  5,

here 5 indicates AAC SBR format.

Where as the other 3 files that are being played are parsed as   audio object type m\_aot 2, 2 is AAC LC format.

Hence we can conclude that the modifications done to the code are blocking file formats  with SBR encoding.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| File | Format | Format Profile | Commercial Name | Playback Result (Modified Build)  **LYF-F220B-003-01-49-020421-i** |
| ChID-BLITS-EBU-Narration441AOT2.mp4 | AAC LC | AAC@L4 | NA | Playing |
| SBR\_LFEtest5\_1.mp4 | AAC LC SBR | High Efficiency AAC@L4 | HE-AAC | Not playing |
|  | | | | |
| SBRtestStereoAot5Sig1.mp4 | AAC LC SBR | AAC@L1 | HE-AAC | Not playing |
| SBRtestStereoAot29Sig1.mp4 | AAC LC SBR PS | AAC@L1 | HE-AACv2 | Not playing |
| SBRtestStereoAot29Sig2.mp4 | AAC LC SBR PS | High Efficiency AAC v2@L2 | HE-AACv2 | Not playing |
| SBRtestStereoAot29Sig0.mp4 | AAC LC SBR PS | AAC@L1 | HE-AACv2 | Playing,  Left and Right Audio observed |
| SBRtestStereoAot5SigusePS.mp4 | AAC LC SBR PS | High Efficiency AAC@L2 | HE-AACv2 | Not playing |
| LFE-SBRstereo.mp4 | AVC | Main@L2.1 | NA | Not playing |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LYF-F220B-003-01-49-020421-i** | | | | |
| **S:No** | **Audio Files** | **Audio Status** | **Left Earbud no of beeps** | **Right Earbud no of beeps** |
| **1** | SBRtestStereoAot5Sig1.mp4 | Audio Not Playing |  |  |
| **2** | SBRtestStereoAot29Sig1.mp4 | Audio Not Playing |  |  |
| **3** | SBRtestStereoAot29Sig2.mp4 | Audio Not Playing |  |  |
| **4** | SBRtestStereoAot29Sig0.mp4 | Audio Playing | 4 | 4 |
| **5** | SBRtestStereoAot5SigusePS.mp4 | Audio Not Playing |  |  |
| **6** | LFE-SBRstereo.mp4 | Audio Not Playing |  |  |

@rakesh Kindly perform the step 2 as below with earphones :

**Contents to be tested:**

**File Path (/data/SCM/To Rakesh)**

SBRtestStereoAot5Sig1.mp4 - AOT 5, explicit signalling, backwards compatible

SBRtestStereoAot29Sig1.mp4 - AOT 29, explicit signalling, backwards compatible

SBRtestStereoAot29Sig2.mp4 - AOT 29, explicit signalling, not backwards compatible (MPEG hierarchical)

SBRtestStereoAot29Sig0.mp4 - AOT 29, implicit signalling

SBRtestStereoAot5SigusePS.mp4 - AOT 29, mixed signalling

LFE-SBRstereo.mp4 - This is the bitstream above (explicit backwards-compatible signalling) multiplexed with an explanatory graphic encoded in H.264 Main Profile at 400x400 resolution.

Revert in case of any query.

**>> BUILD : /data/DEV/AAC/Apr7th/LYF-F220B-003-01-49-070421-i\_userdebug\_f3\_signed.zip**

**In file tpdec\_asc.cpp**

if ((self->m\_sbrPresentFlag == 1) || (self->m\_psPresentFlag == 1)) {

ALOGE("VT: Disable SBR PS");

self->m\_sbrPresentFlag = 0;

self->m\_psPresentFlag = 0;

//ErrorStatus = TRANSPORTDEC\_UNSUPPORTED\_FORMAT; // VT: Disable SBR PS

}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LYF-F220B-003-01-49-070421-i** | | | | |
| **S:No** | **Audio Files** | **Audio Status** | **Left Earbud no of beeps** | **Right Earbud no of beeps** |
| **1** | SBRtestStereoAot5Sig1.mp4 | Audio Playing | 4 | 4 |
| **2** | SBRtestStereoAot29Sig1.mp4 | Audio Playing | 4 | 4 |
| **3** | SBRtestStereoAot29Sig2.mp4 | Audio Playing | 4 | 4 |
| **4** | SBRtestStereoAot29Sig0.mp4 | Audio Playing | 4 | 4 |
| **5** | SBRtestStereoAot5SigusePS.mp4 | Audio Playing | 4 | 4 |
| **6** | LFE-SBRstereo.mp4 | Video & Audio Playing | 4 | 4 |

**>> FIX Present Build : Build uploaded at kaifota @ /data/DEV/AAC/Apr9th/LYF-F220B-003-01-49-090421-i\_userdebug\_f3\_signed.zip**

**PATCH : Disable-SBR-PS**

beep tounes playing simultaneously on both left and right earbuds, have not observed this behavior on previous builds.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LYF-F220B-003-01-49-090421-i** | | | | |
| **S:No** | **Audio Files** | **Audio Status** | **Left Earbud no of beeps** | **Right Earbud no of beeps** |
| **1** | SBRtestStereoAot5Sig1.mp4 | Audio Playing | 2 | 2 |
| **2** | SBRtestStereoAot29Sig1.mp4 | Audio Playing | 2 | 2 |
| **3** | SBRtestStereoAot29Sig2.mp4 | Audio Playing | 2 | 2 |
| **4** | SBRtestStereoAot29Sig0.mp4 | Audio Playing | 2 | 2 |
| **5** | SBRtestStereoAot5SigusePS.mp4 | Audio Playing | 2 | 2 |
| **6** | LFE-SBRstereo.mp4 | Audio & Video Playing | 2 | 2 |

Youtube ------->> Playing

JioTV     -------->> Playing

JioCinema ----------->> Playing

JioSaavan ----------->> Playing

As discussed verified audio and video files on r3er18 build @  LYF-F220B-003-01-60-250221-i, Please find the attached results and logs. (without patch )

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LYF-F220B-003-01-60-250221-i** | | | | |
| **S:No** | **Audio Files** | **Audio & Video Status** | **Left Earbud no of beeps** | **Right Earbud no of beeps** |
| **1** | SBRtestStereoAot5Sig1.mp4 | Audio Playing | 4 | 4 |
| **2** | SBRtestStereoAot29Sig1.mp4 | Audio Playing | 4 | 4 |
| **3** | SBRtestStereoAot29Sig2.mp4 | Audio Playing | 4 | 4 |
| **4** | SBRtestStereoAot29Sig0.mp4 | Audio Playing | 4 | 4 |
| **5** | SBRtestStereoAot5SigusePS.mp4 | Audio Playing | 4 | 4 |
| **6** | LFE-SBRstereo.mp4 | Audio & Video Playing | 4 | 4 |

CONCUSION :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **R3ER18 Build (Without patch apply)** | **Build with SBR and PS content supressed and LC content allowed (Patch :VT-Disable SBR-PS)** | Build with SBR PS support removed (patch : VT diable sbr ps formats) |
| **S:No** | **Audio Files** | **Audio and Video status (no. of beeps)** | **Audio and Video status (no. of beeps)** | Audio and video status |
| **1** | SBRtestStereoAot5Sig1.mp4 | Audio Playing  (4) | Audio Playing  (2) | Audio not palying |
| **2** | SBRtestStereoAot29Sig1.mp4 | Audio Playing (4) | Audio Playing (2) | Audio not palying |
| **3** | SBRtestStereoAot29Sig2.mp4 | Audio Playing (4) | Audio Playing (2) | Audio not palying |
| **4** | SBRtestStereoAot29Sig0.mp4 | Audio Playing (4) | Audio Playing (2) | Audio palying (4) |
| **5** | SBRtestStereoAot5SigusePS.mp4 | Audio Playing (4) | Audio Playing (2) | Audio not palying |
| **6** | LFE-SBRstereo.mp4 | Audio & Video Playing (4) | Audio & Video Playing (2) | Audio not palying |
| **7** | Youtube | Playing | Playing | Playing |
| **8** | JioSaavn | Playing | Playing | Playing |
| **9** | JioCinema | Playing | Playing | Playing |
| **10** | JioTV | Playing | Playing | Playing |
| **11** | Local Mp3 audio files | Playing | Playing | Playing |
| **12** | Local Mp4 player | Playing | Playing | Playing |
| **13** | Local WAV file | Not playing | Not playing | Not playing |
| **14** | Local AVC file | Not playing | Not playing | Not playing |