

**Intel® Media Streaming Library for ST 2110 Release Notes**

***Rev. 0.6***

***January 2021***

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**Revision History**

|  |  |  |
| --- | --- | --- |
| **Date** | **Revision** | **Description** |
| September 2020 | 0.5 | Initial release of the document for the first review. |
| January 2021 | 0.6 | Known issues updated; HT information added. |

# Introduction

### NOTE

This document provides a brief introduction to the Intel® Media Streaming Library for ST 2110, lists known issues, and provides available workarounds. In addition, a list of important acronyms and terminology is provided. The content of this document will be updated as applicable and updates will be reflected in the Revision History.

The Intel® Media Streaming Library for ST 2110 is an implementation of a library that uses DPDK to accelerate lossless media transfer using IP networks.  It implements the SMPTE (Society for Motion Picture and Television Engineers) ST 2110 standard for the transmission of digital video, audio, and auxiliary data over an IP network.

This library utilizes the Open Source DPDK (Data Plane Development Kit) to accelerate the transfer of packets by eliminating much of the kernel processing, interrupt handling, and data copying typically required with sending and receiving network data.

## Supported Features

* ST 2110 compliance
* Progressive video
* Interlaced video
* Interoperability tested with AJA (IPT-10G2-HDMI, IPR-10G2-HDMI)
* PTP alignment of sender and receiver
* Wide sender pacing quality
* W, N and NL pacing receiver
  1. **Supported OS**
     + Ubuntu 18.04
     + Ubuntu 20.04
  2. **Supported video formats**

|  |  |
| --- | --- |
| Resolution | FPS |
| 720p | 29 |
| 720p | 50 |
| 1080p | 29 |
| 1080i | 29 |
| 1080p | 59 |
| 1080i | 59 |

* 1. **Compiler version**
     + gcc 7.4.0
  2. **NIC support**
     + **Fortville** (supported, fully validated)
       - 10GbE
       - 25GbE
       - 40GbE
     + **Columbiaville** (compatible)
       - 100GbE
  3. **Untested configurations**

Please be advised, that for the current release, configurations such as 25GbE NIC connected to a lower bandwidth network switch I.e 10 GbE, is not fully validated. Mentioned configuration could cause unexpected behavior.

Hyper Threading feature must be switched on.

## Supporting Documentation

Please see the following documents for more information:

* + - *Intel® Media Streaming Library for ST 2110 User Guide*

# Intel® Media Streaming Library for ST 2110 release content

### Release content

### Library

### Header files:

### St\_fmt.h

### St\_api.h

### St\_pack.h

### Rxtx\_app.h

### Common\_app.h

### St\_api.h

### Sample application

### #build/app/RxTxApp

### Documentation

### User guide

### Release notes

# 4.0 Known Issues

### Table 4. Known Issues

|  |  |
| --- | --- |
| **ID** | **Title** |
| IntelMSL -1 | DUT crash while destroying Rx device |
| IntelMSL -2 | Malicious Driver Detection event one session of 1080i29 transmission |
| IntelMSL -3 | Segmentation fault while using output viewer with yuv signal and more than 10-11 sessions on 40 Gbps cards |
| IntelMSL -4 | Aplication stops unexpectedly without reporting warnings/errors with number of sessions above 2 |
| IntelMSL -5 | ErrNo: -33 TX sample app crash i1080i29 for two or more sessions. |
| IntelMSL -6 | i40e\_flow\_add\_del\_fdir\_filter(): Conflict with existing flow director rules! |
| IntelMSL -7 | The receiver does not work properly with the selected number of sessions. |
| IntelMSL -8 | Segmentation fault while using rgba signal with interlaced mode. |
| IntelMSL -9 | StCreateDevice throw: Segmentation fault with incorrect in/out port |